## APPENDIX



Historical Aerial Photographs

Southgate Ave. Interchange SR99/Southgate Ave. CHICO, CA 95928

Inquiry Number: 2287908.1

August 11, 2008

# The EDR Aerial Photo Decade Package



## **EDR Aerial Photo Decade Package**

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

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Please contact EDR at 1-800-352-0050
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### **Date EDR Searched Historical Sources:**

Aerial Photography August 11, 2008

## **Target Property:**

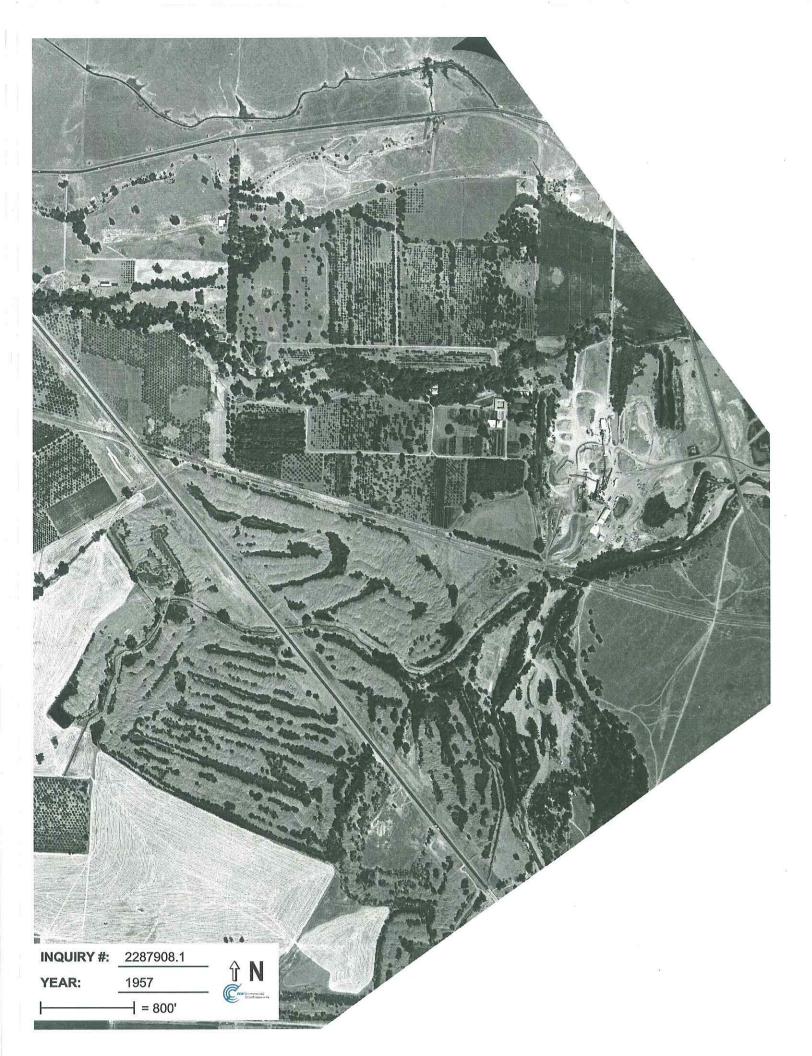
SR99/Southgate Ave.

CHICO, CA 95928

| <u>Year</u> | <u>Scale</u>                      | <u>Details</u>    | Source     |
|-------------|-----------------------------------|-------------------|------------|
| 1957        | Aerial Photograph. Scale: 1"=800' | Flight Year: 1957 | Cartwright |
| 1957        | Aerial Photograph. Scale: 1"=800' | Flight Year: 1957 | Cartwright |
| 1957        | Aerial Photograph. Scale: 1"=800" | Flight Year: 1957 | Cartwright |
| 1957        | Aerial Photograph. Scale: 1"=800' | Flight Year: 1957 | Cartwright |
| 1957        | Aerial Photograph. Scale: 1"=800" | Flight Year: 1957 | Cartwright |
| 1957        | Aerial Photograph. Scale: 1"=800' | Flight Year: 1957 | Cartwright |
| 1962        | Aerial Photograph. Scale: 1"=800' | Flight Year: 1962 | Cartwright |
| 1962        | Aerial Photograph. Scale: 1"=800' | Flight Year: 1962 | Cartwright |
| 1962        | Aerial Photograph. Scale: 1"=800' | Flight Year: 1962 | Cartwright |
| 1962        | Aerial Photograph. Scale: 1"=800' | Flight Year: 1962 | Cartwright |
| 1962        | Aerial Photograph. Scale: 1"=800' | Flight Year: 1962 | Cartwright |
| 1962        | Aerial Photograph. Scale: 1"=800' | Flight Year: 1962 | Cartwright |
| 1970        | Aerial Photograph. Scale: 1"=800' | Flight Year: 1970 | Western    |
| 1970        | Aerial Photograph. Scale: 1"=800' | Flight Year: 1970 | Western    |
| 1970        | Aerial Photograph. Scale: 1"=800' | Flight Year: 1970 | Western    |
| 1970        | Aerial Photograph. Scale: 1"=800' | Flight Year: 1970 | Western    |
| 1970        | Aerial Photograph. Scale: 1"=800' | Flight Year: 1970 | Western    |
| 1970        | Aerial Photograph. Scale: 1"=800' | Flight Year: 1970 | Western    |
| 1984        | Aerial Photograph. Scale: 1"=800' | Flight Year: 1984 | USGS       |

| <b>Year</b> 1984 | Scale Aerial Photograph. Scale: 1"=800' | <b>Details</b> Flight Year: 1984 | Source<br>USGS |
|------------------|---|----------------------------------|----------------|
| 1984             | Aerial Photograph. Scale: 1"=800'       | Flight Year: 1984                | USGS           |
| 1984             | Aerial Photograph. Scale: 1"=800'       | Flight Year: 1984                | USGS           |
| 1984             | Aerial Photograph. Scale: 1"=800'       | Flight Year: 1984                | USGS           |
| 1984             | Aerial Photograph. Scale: 1"=800'       | Flight Year: 1984                | USGS           |
| 1998             | Aerial Photograph. Scale: 1"=800'       | Flight Year: 1998                | USGS           |
| 1998             | Aerial Photograph. Scale: 1"=800'       | Flight Year: 1998                | USGS           |
| 1998             | Aerial Photograph, Scale: 1"=800'       | Flight Year: 1998                | USGS           |
| 1998             | Aerial Photograph. Scale: 1"=800'       | Flight Year: 1998                | USGS           |
| 1998             | Aerial Photograph. Scale: 1"=800'       | Flight Year: 1998                | USGS           |
| 1998             | Aerial Photograph. Scale: 1"=800'       | Flight Year: 1998                | USGS           |
| 2005             | Aerial Photograph. Scale: 1"=484'       | Flight Year: 2005                | EDR            |







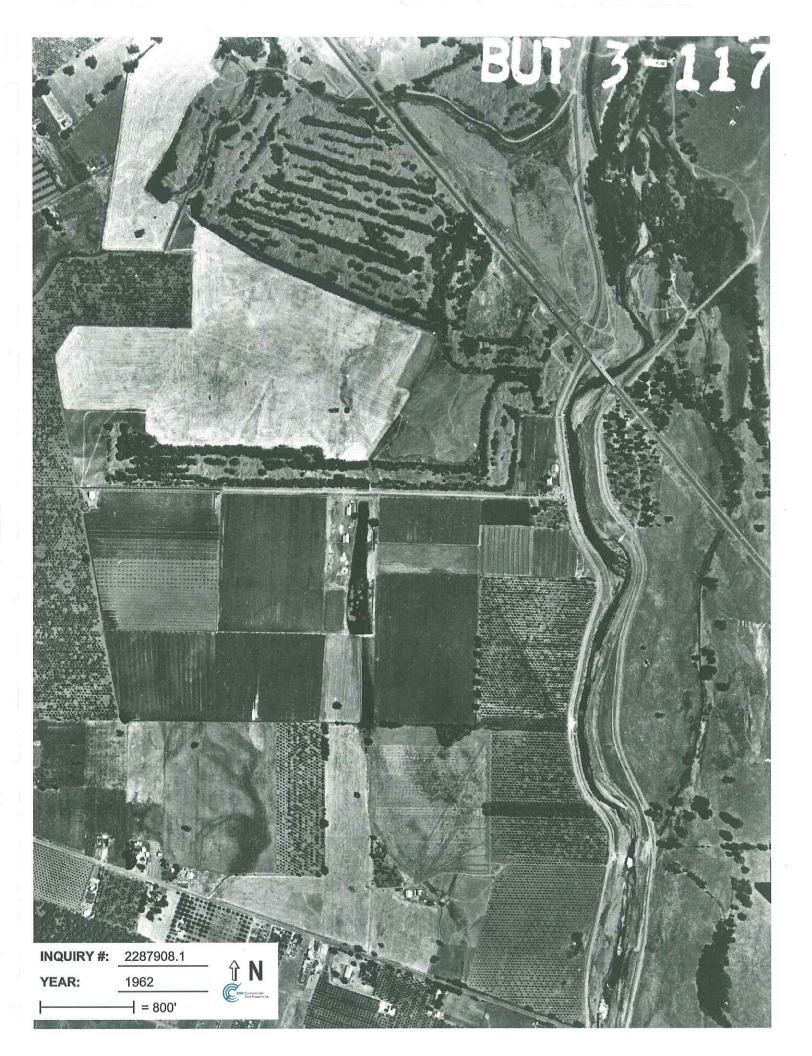












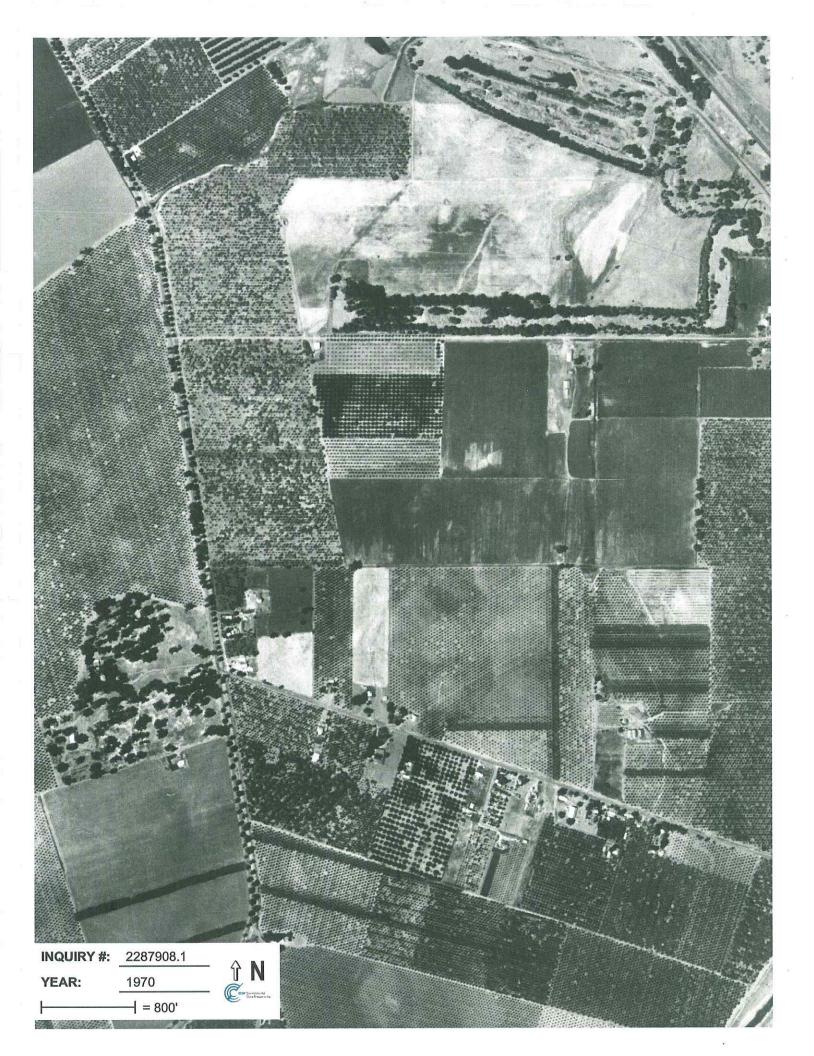




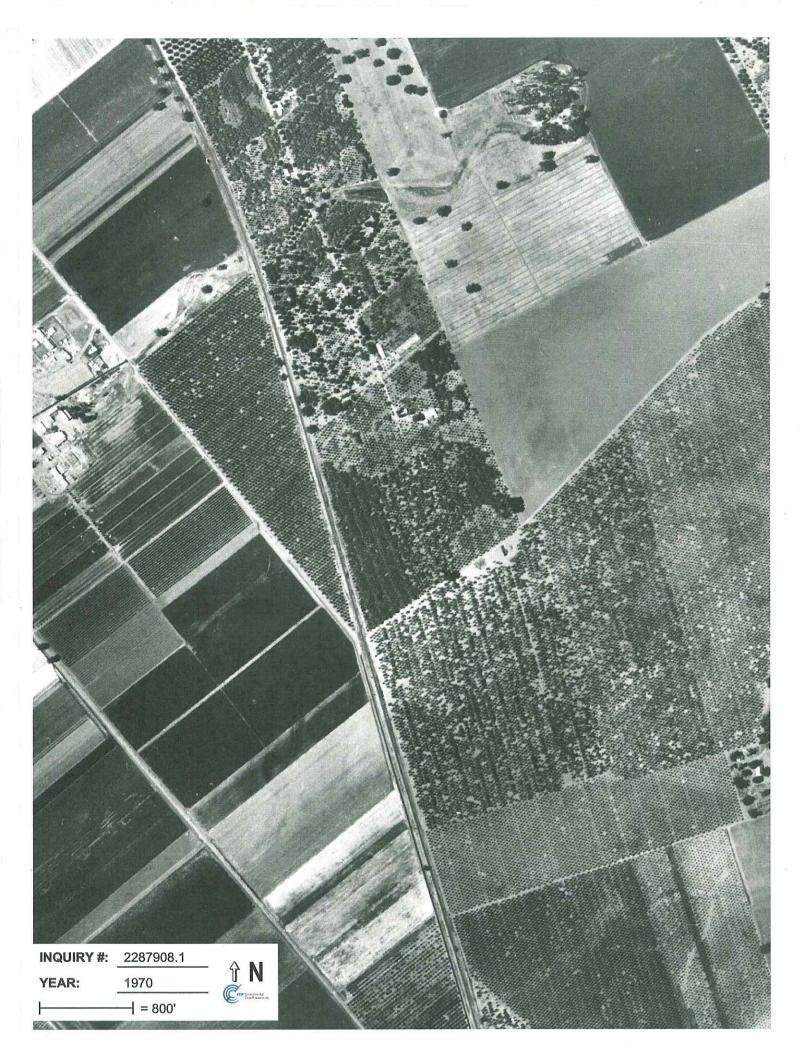




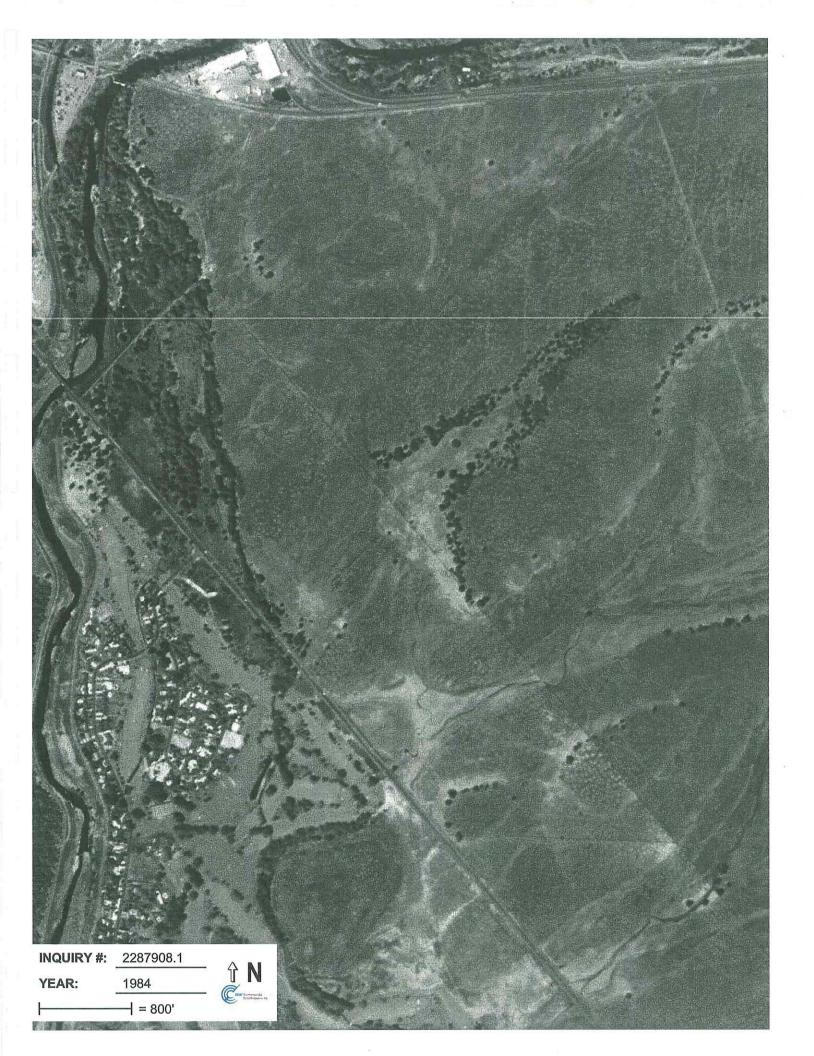




































APPENDIX

B

Topographic Maps



## EDR Historical Topographic Map Report

Southgate Ave. Interchange SR99/Southgate Ave. Chico, CA 95928

Inquiry Number: 2184904.4

April 03, 2008

### The Standard in Environmental Risk Information

440 Wheelers Farms Rd Milford, Connecticut 06461

**Nationwide Customer Service** 

Telephone:

1-800-352-0050

Fax:

1-800-231-6802

Internet:

www.edrnet.com

#### **EDR Historical Topographic Map Report**

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

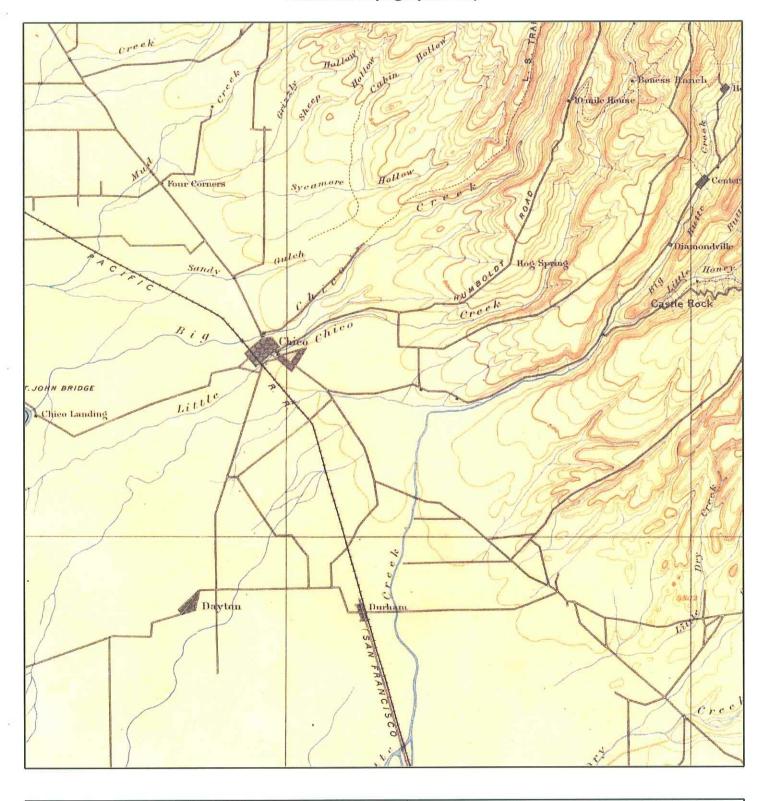
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TARGET QUAD

NAME: CHICO

MAP YEAR: 1895

SERIES: 30

SCALE:

1:125000

SITE NAME: Southgate Ave.

Interchange

ADDRESS: SR99/Southgate Ave.

Chico, CA 95928

LAT/LONG: 39.7054 / 121.793 CLIENT:

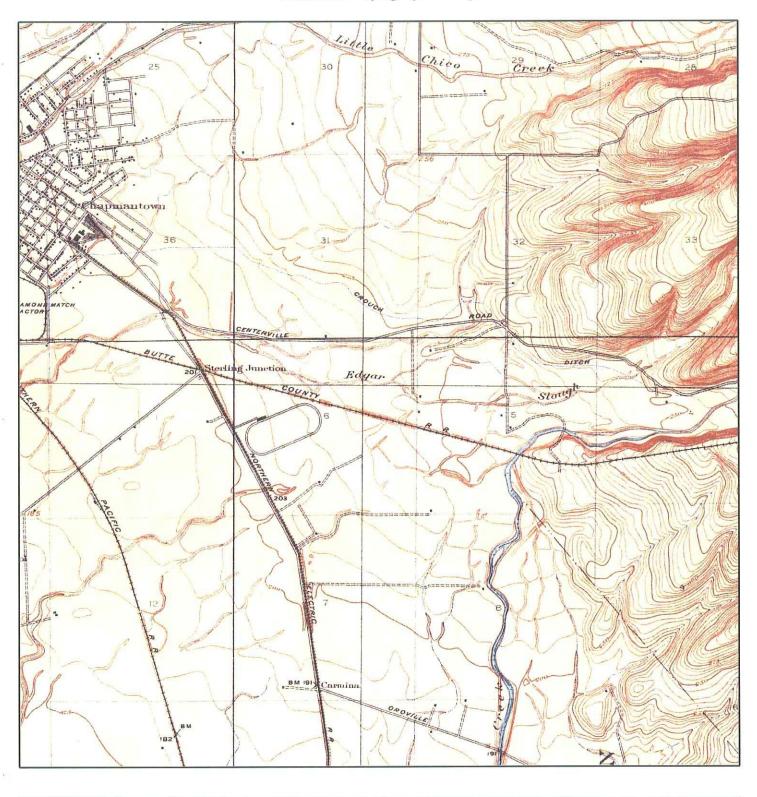
Blackburn Consulting

CONTACT:

Dave Buck

INQUIRY#:

2184904.4



TARGET QUAD

**DURHAM** NAME:

MAP YEAR: 1912

SERIES: SCALE:

7.5 1:31680

SITE NAME: Southgate Ave.

Interchange

ADDRESS:

SR99/Southgate Ave.

Chico, CA 95928

LAT/LONG:

39.7054 / 121.793

CLIENT:

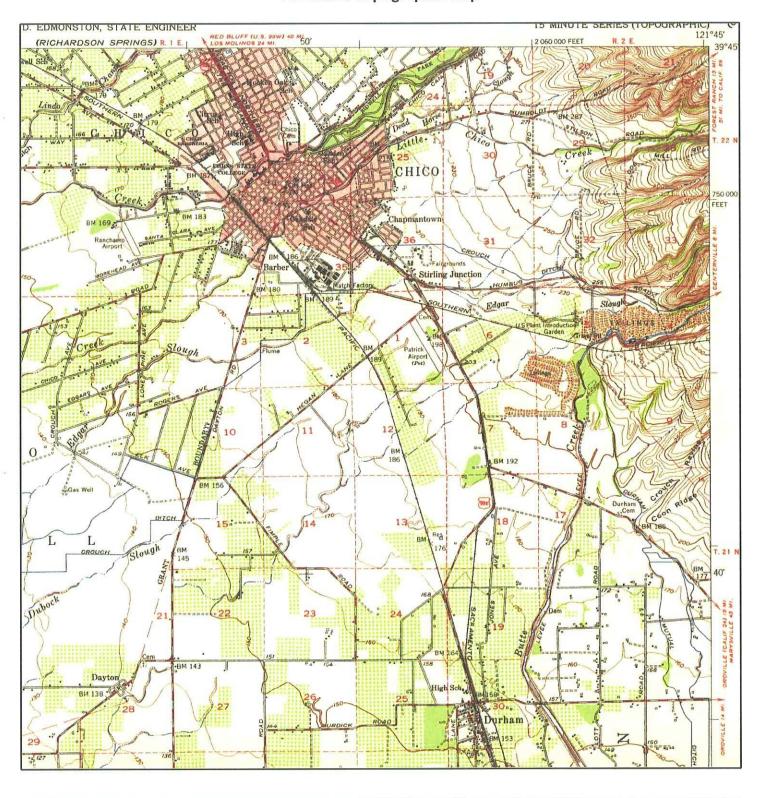
Blackburn Consulting

CONTACT:

Dave Buck

INQUIRY#:

2184904.4



N

TARGET QUAD

NAME: CHICO

MAP YEAR: 1949

1:62500

15 SERIES:

SCALE:

SITE NAME: Southgate Ave.

Interchange

ADDRESS:

SR99/Southgate Ave.

Chico, CA 95928

LAT/LONG:

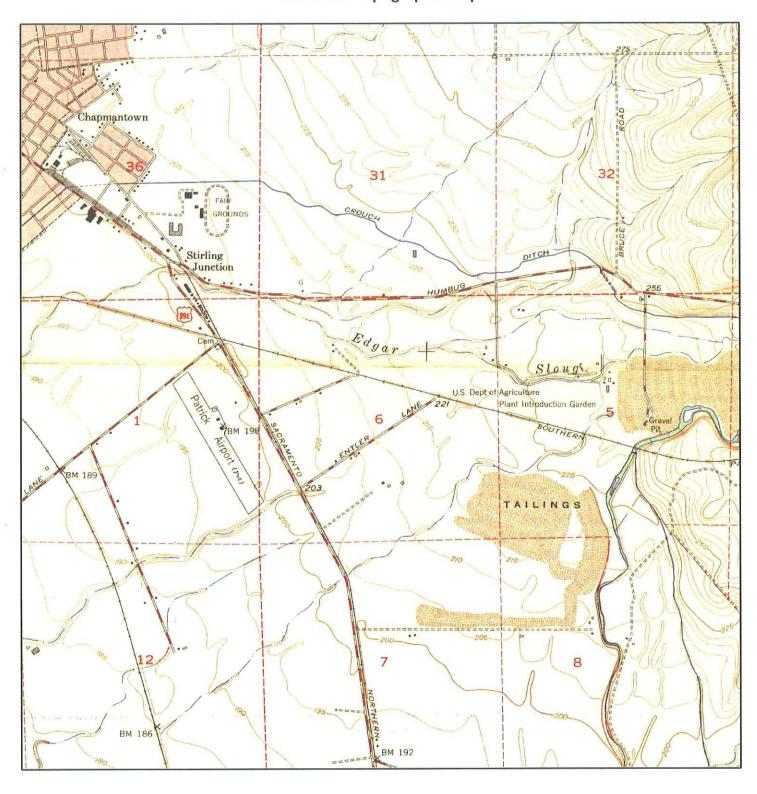
39.7054 / 121.793

CLIENT:

Blackburn Consulting

CONTACT: Dave Buck INQUIRY#:

2184904.4



TARGET QUAD

NAME: CHICO MAP YEAR: 1950

SERIES: SCALE:

7.5 1:24000

SITE NAME: Southgate Ave. Interchange

ADDRESS:

SR99/Southgate Ave.

Chico, CA 95928

LAT/LONG:

39.7054 / 121.793

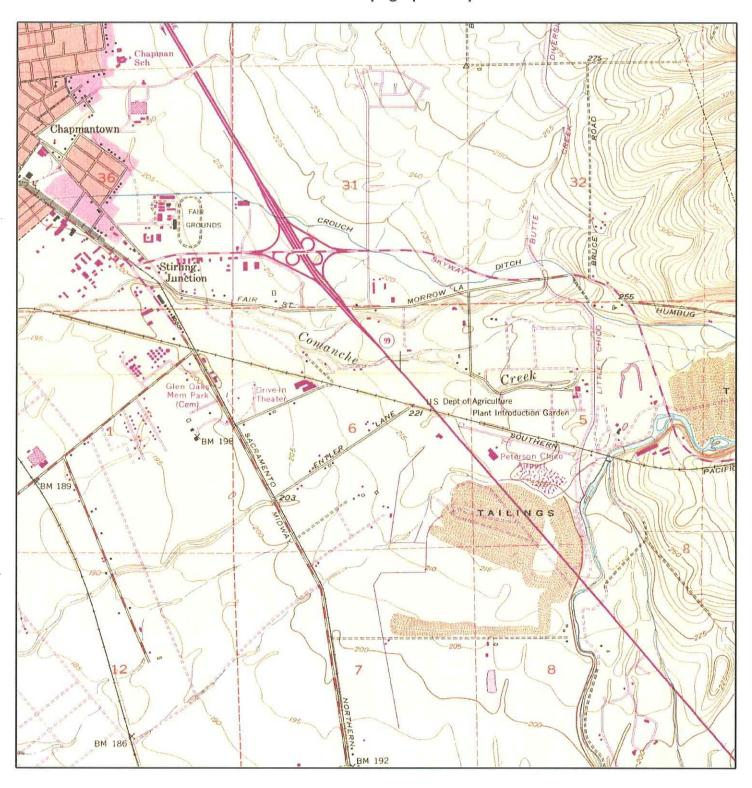
CLIENT:

Blackburn Consulting

CONTACT:

Dave Buck

INQUIRY#: 2184904.4



N

TARGET QUAD

CHICO NAME: MAP YEAR: 1969

PHOTOREVISED FROM:1948

SERIES: 7.5 SCALE: 1:24000

SITE NAME: Southgate Ave. Interchange

ADDRESS:

SR99/Southgate Ave.

Chico, CA 95928

LAT/LONG:

39.7054 / 121.793

CLIENT:

Blackburn Consulting

CONTACT:

Dave Buck

INQUIRY#: 2184904.4 RESEARCH DATE: 04/03/2008



N

TARGET QUAD

NAME: CHICO MAP YEAR: 1978

PHOTOREVISED FROM:1948

SERIES: 7.5 SCALE: 1:24000 SITE NAME:

Southgate Ave. Interchange

ADDRESS:

SR99/Southgate Ave.

Chico, CA 95928

LAT/LONG:

39.7054 / 121.793

CLIENT:

Blackburn Consulting

CONTACT:

Dave Buck

INQUIRY#: 2184904.4 RESEARCH DATE: 04/03/2008

APPENDIX

C

EDR Report Executive Summary
Listing of Searched Databases
Full EDR Report on CD



## The EDR Radius Map with GeoCheck®

Southgate Ave. Interchange SR99/Southgate Ave. Chico, CA 95928

Inquiry Number: 02206466.1r

April 29, 2008

# The Standard in Environmental Risk Information

440 Wheelers Farms Road Milford, Connecticut 06461

#### **Nationwide Customer Service**

Telephone: 1-800-352-0050 Fax: 1-800-231-6802

Internet: www.edrnet.com

#### TABLE OF CONTENTS

| SECTION  | PAGE  |
|--|-------|
| Executive Summary                                  | ES1   |
| Overview Map                                       | 2     |
| Detail Map   | . 3   |
| Map Findings Summary                               | . 4   |
| Map Findings                                       | . 6   |
| Orphan Summary                                     | 354   |
| Government Records Searched/Data Currency Tracking | GR-1  |
| GEOCHECK ADDENDUM                                  |       |
| Physical Setting Source Addendum                   | A-1   |
| Physical Setting Source Summary                    | A-2   |
| Physical Setting Source Map                        | . A-7 |
| Physical Setting Source Map Findings               | A-8   |
| Physical Setting Source Records Searched           | A-15  |

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

#### TARGET PROPERTY INFORMATION

#### **ADDRESS**

SR99/SOUTHGATE AVE. CHICO, CA 95928

#### COORDINATES

Latitude (North): Longitude (West): 39.705400 - 39° 42′ 19.4″ 121.793000 - 121° 47′ 34.8″

Universal Tranverse Mercator: Zone 10 UTM X (Meters): 603474.7

Zone 10 603474.7

UTM Y (Meters): Elevation: 4395547.0

220 ft. above sea level

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:

39121-F7 CHICO, CA

Most Recent Revision:

1978

#### TARGET PROPERTY SEARCH RESULTS

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

#### **DATABASES WITH NO MAPPED SITES**

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

#### **FEDERAL RECORDS**

NPL..... National Priority List

Proposed NPL Proposed National Priority List Sites

Delisted NPL National Priority List Deletions

NPL LIENS Federal Superfund Liens

LIENS 2 CERCLA Lien Information
CORRACTS Corrective Action Report

RCRA - Transporters, Storage and Disposal

US ENG CONTROLS...... Engineering Controls Sites List US INST CONTROL...... Sites with Institutional Controls

DOT OPS Incident and Accident Data US CDL...... Clandestine Drug Labs US BROWNFIELDS ...... A Listing of Brownfields Sites DOD..... Department of Defense Sites FUDS Formerly Used Defense Sites LUCIS Land Use Control Information System CONSENT..... Superfund (CERCLA) Consent Decrees ROD\_\_\_\_\_ Records Of Decision DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations TSCA..... Toxic Substances Control Act ICIS \_\_\_\_\_ Integrated Compliance Information System PADS PCB Activity Database System MLTS..... Material Licensing Tracking System RADINFO...... Radiation Information Database 

#### STATE AND LOCAL RECORDS

HIST Cal-Sites Historical Calsites Database
CA BOND EXP. PLAN Bond Expenditure Plan
SCH School Property Evaluation Program
Toxic Pits Toxic Pits Cleanup Act Sites
WMUDS/SWAT Waste Management Unit Database
LIENS Environmental Liens Listing
Notify 65 Proposition 65 Records
DEED Deed Restriction Listing
VCP Voluntary Cleanup Program Properties
WIP Well Investigation Program Case List

RESPONSE...... State Response Sites

#### TRIBAL RECORDS

INDIAN RESERV....... Indian Reservations
INDIAN ODI......... Report on the Status of Open Dumps on Indian Lands
INDIAN LUST....... Leaking Underground Storage Tanks on Indian Land
INDIAN UST....... Underground Storage Tanks on Indian Land

#### EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants

#### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

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

Sites listed in bold italics are in multiple databases.

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

#### **FEDERAL RECORDS**

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

A review of the CERC-NFRAP list, as provided by EDR, and dated 12/03/2007 has revealed that there is 1 CERC-NFRAP site within approximately 1.5 miles of the target property.

| Equal/Higher Elevation        | Address         | Dist / I | Dir | Map ID | Page |
|-------------------------------|-----------------|----------|-----|--------|------|
| COMSTOCK ROAD-CHICO CHEMICALS | 7 COMSTOCK ROAD | 1 - 2    | N   | BA265  | 293  |

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/06/2008 has revealed that there are 5 RCRA-LQG sites within approximately 1.5 miles of the target property.

| Lower Elevation                                   | Address                | Dist / Dir   | Map ID       | Page       |
|---|------------------------|--------------|--------------|------------|
| Not reported                                      | 425 SOUTHGATE AVENUE   | 1/4 - 1/2SSE | H27          | 41         |
|   | 400 E PARK AVE         | 1/2 - 1 NW   | AL163        | 188        |
| CHICO ENTERPRISE RECORD SFPP, L.P. CHICO TERMINAL | 2570 HEGAN LANE        | 1-2 W        | AO192        | 207        |
| DUCKBACK PRODUCTS                                 | 2644 HEGAN LANE        | 1 - 2 W      | AU245        | 271        |
| CHEMCRAFT   | 311 OTTERSON DR. SUITE | 1 - 2 W      | <i>BB271</i> | <b>299</b> |

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/06/2008 has revealed that there are 20 RCRA-SQG sites within approximately 1.5 miles of the target property.

| Equal/Higher Elevation         | Address                 | Dist / Dir   | Map ID     | Page |
|--------------------------------|-------------------------|--------------|------------|------|
| CHEMTEC AGRI CHEMS INC         | 701 ENTLER AVE          | 1/4 - 1/2SE  | B10        | 13   |
| PACIFIC BELL                   | 3750 MORROW LANE        | 1/4 - 1/2 N  | D19        | 22   |
| FMC CORP AGRI CHEM GROUP       | 775 ENTLER AVE          | 1/4 - 1/2 SE | 24         | 33   |
| MOSER DENTAL MFG CO            | 2560 DOMINIC DR UNIT I  | 1/2 - 1 NNE  | 135        | 48   |
| QUADCO PRINTING INC            | 2535 ZANELLA WY         | 1/2 - 1 N    | 36         | 49   |
| MIRACLE AUTO PAINTING          | 2560 DOMINIC            | 1/2 - 1 NNE  | 137        | 52   |
| GARY YOUNIE TRK & AUTO INC.    | 3871 BENATAR WAY        | 1/2 - 1 NNE  | K47        | 65   |
| CALTRANS DISTRICT 3            | 2535 NOTRE DAME BLVD    | 1/2 - 1 NNW  | L57        | 73   |
| UNIVERSAL EQUIPMENT MFG CO INC | 3075 SOUTHGATE LANE     | 1/2 - 1 SE   | <b>S77</b> | 92   |
| RALEYS 287                     | 2485 NOTRE DAME BLVD UN | 1/2 - 1 N    | V88        | 104  |

| Equal/Higher Elevation         | Address                | Dist / Dir    | Map ID  | Page |
|--------------------------------|------------------------|---------------|---------|------|
| WITTMEIER AUTO CENTER          | 2288 FOREST AVE        | 1 - 2 NNW     | AQ218   | 237  |
| Lower Elevation                | Address                | Dist / Dir    | Map ID  | Page |
| HOME DEPOT USA INC HD 6609     | 2580 NOTRE DAME BLVD   | 1/4 - 1/2 NNW | F26     | 36   |
| LIFETOUCH NATIONAL SCHOOL STUD | 2860 FAIR ST           | 1/2 - 1 NW    | J38     | 54   |
| PG&E CHICO SERVICE CENTER      | 11239 MIDWAY           | 1/2 - 1 WNV   | / AD128 | 139  |
| PURITZ OIL CO                  | 2421 VALINE WAY        | 1/2 - 1 NW    | AG137   | 160  |
| BUTTE COUNTY PUBLIC HEALTH SER | 2445 CARMICHAEL DRIVE  | 1/2 - 1 NW    | AK162   | 186  |
| CHICO COLLISION CTR INC        | 275 E PARK AVE         | 1-2 NW        | AT235   | 257  |
| DUCKBACK PRODUCTS CO INC       | 2644 HEGAN LANE        | 1-2 W         | AU239   | 264  |
| CASCADE ORTHOPEDIC SUPPLY INC  | 415 OTTERSON DR STE 70 | 1-2 W         | BF294   | 326  |
| COSTCO NO 136                  | 2100 WHITMAN AVE.      | 1-2 NW        | BK312   | 344  |

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/06/2008 has revealed that there is 1 RCRA-CESQG site within approximately 1.5 miles of the target property.

| Lower Elevation     | Address        | Dist / Dir | Map ID  | Page |
|---------------------|----------------|------------|---------|------|
| EVERGREEN OIL CHICO | 2549 SCOTT AVE | 1 - 2 WN   | W AS232 | 254  |

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 03/06/2008 has revealed that there are 10 RCRA-NonGen sites within approximately 1.5 miles of the target property.

| Equal/Higher Elevation        | Address                | Dist / Dir    | Map ID | Page |
|-------------------------------|------------------------|---------------|--------|------|
| CHICO METAL FINISHING INC     | 3870 MARROW LANE SUITE | 1/4 - 1/2 NNE | G25    | 35   |
| SPRAY-CHEM                    | 3851 MORROW LN #13     | 1/4 - 1/2 NNE | G30    | 44   |
| GRUBER ENTERPRISES            | 2170 HUNTINGTON DR     | 1 - 2 N       | 293    | 325  |
| Lower Elevation               | Address                | Dist / Dir    | Map ID | Page |
| GREG KERR TRUCKING            | 1 BAJA CT              | 1/4 - 1/2 SW  | 3      | 7    |
| DIAGNOSTIC IMAGING INC        | 3650 MORROW LN         | 1/4 - 1/2 N   | E22    | 32   |
| BEAM X RAY INC                | 11025 MIDWAY           | 1/2 - 1 WSW   | P69    | 82   |
| CHEVRON USA INC CHICO CA TERM | HAGEN LN AT MIDWAY RD  | 1/2 - 1 WNW   | AD122  | 131  |
| SHELL OIL CO CHICO PLANT      | 2570 HEGAN LN          | 1-2 W         | AO207  | 214  |
| ATC/VANCOM OF CALIFORNIA      | 326 HUSS DR            | 1-2 W         | BC274  | 306  |
| 3M CHICO                      | 402 OTTERSON DR        | 1-2 W         | BF288  | 319  |

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

A review of the ERNS list, as provided by EDR, and dated 12/31/2007 has revealed that there are 37 ERNS sites within approximately 1.5 miles of the target property.

| Equal/Higher Elevation             | Address                            | D   | ist / [    | )ir    | Map ID         | Page       |
|------------------------------------|------------------------------------|-----|------------|--------|----------------|------------|
| 7 COMSTOCK RD                      | 7 COMSTOCK RD                      | 1   | - 2        | Ν      | BA266          | 294        |
| Lower Elevation                    | Address                            | D   | ist / [    | Dir    | Map ID         | Page       |
| 2570 HAGAN LANE<br>2570 HAGAN LANE | 2570 HAGAN LANE<br>2570 HAGAN LANE |     | - 2<br>- 2 | W      | AO174<br>AO175 | 199<br>199 |
| 2570 HAGAN LANE                    | 2570 HAGAN LANE                    |     | - 2        | W      | AO177          | 200        |
| 2570 HEGAN LANE                    | 2570 HEGAN LANE                    |     | - 2        | W      | AO178          | 201        |
| 2570 HEGAN LANE                    | 2570 HEGAN LANE                    | 1   | - 2        | W      | AO179          | 201        |
| 2570 HAGAN LANE                    | 2570 HAGAN LANE                    | 1   | - 2        | W      | AO180          | 201        |
| 2570 HAGAN LANE                    | 2570 HAGAN LANE                    | 1   | - 2        | W      | AO181          | 201        |
| 2570 HEGAN LANE                    | 2570 HEGAN LANE                    |     | - 2        | W      | AO183          | 201        |
| 2570 HAGAN LANE                    | 2570 HAGAN LANE                    | 15  | - 2        | W      | AO184          | 202        |
| 2570 HEGAN LANE                    | 2570 HEGAN LANE                    |     | - 2        | W      | AO185          | 202        |
| 2570 HEGGAN LANE                   | 2570 HEGGAN LANE                   |     | - 2        | W      | AO186          | 202        |
| 2570 HAGAN LANE                    | 2570 HAGAN LANE                    |     | - 2        | W      | AO187          | 202        |
| 2570 HEGAN LANE                    | 2570 HEGAN LANE                    |     | - 2        | W      | AO189          | 206        |
| 2570 HAGAN LANE                    | 2570 HAGAN LANE                    |     | - 2        | W      | AO190          | 206        |
| 2570 HAGAN LANE                    | 2570 HAGAN LANE                    |     | - 2        | W      | AO191          | 207        |
| 2570 HEGAN LANE                    | 2570 HEGAN LANE                    |     | - 2        | W      | AO193          | 212        |
| 2570 HEGAN LANE                    | 2570 HEGAN LANE                    |     | - 2        | W      | AO194          | 212        |
| 2570 HEGAN LANE                    | 2570 HEGAN LANE                    |     | - 2        | W      | AO195          | 212        |
| 2570 HEGAN LANE                    | 2570 HEGAN LANE                    |     | - 2        | W      | AO196          | 212        |
| 2570 HEGAN LANE                    | 2570 HEGAN LANE                    |     | - 2        | W      | AO198          | 213        |
| 2570 HEGAN LANE                    | 2570 HEGAN LANE                    |     | - 2        | W      | AO199          | 213        |
| 2570 HEGAN LANE                    | 2570 HEGAN LANE                    |     | - 2<br>- 2 | W      | AO200          | 213        |
| 2570 HEGAN LANE                    | 2570 HEGAN LANE                    |     | - 2        | W      | AO201<br>AO202 | 213<br>213 |
| 2570 HEGAN LANE                    | 2570 HEGAN LANE                    |     | - 2<br>- 2 | W      | AO202          | 213        |
| 2570 HAGAN LANE                    | 2570 HAGAN LANE<br>2570 HEGAN LANE |     | - 2        | W      | AO203<br>AO204 | 214        |
| 2570 HEGAN LANE<br>2570 HEGAN LANE | 2570 HEGAN LANE                    |     | - 2        | W      | AO204          | 214        |
| 2570 HEGAN LANE                    | 2570 HEGAN LANE                    |     | - 2        | W      | AO206          | 214        |
| 2570 HEGAN LANE                    | 2570 HEGAN LANE                    |     | - 2        | W      | AO208          | 216        |
| 2570 HEGAN LANE                    | 2570 HEGAN LANE                    |     | - 2        | w      | AO209          | 216        |
| 2570 HEGAN LANE                    | 2570 HEGAN LANE                    | 1.0 | - 2        | W      | AO210          | 216        |
| 2644 HEGAN LANE                    | 2644 HEGAN LANE                    |     | - 2        | W      | AU242          | 268        |
| 2446 FAIR STREET                   | 2446 FAIR STREET                   |     | - 2        | 970790 | / AY259        | 289        |
| 2446 FAIR STREET                   | 2446 FAIR STREET                   |     | - 2        |        | / AY261        | 290        |
| 2101 WHITMAN AVE                   | 2101 WHITMAN AVE                   |     | - 2        | NW     | BK314          | 347        |
| 2334 FAIR ST                       | 2334 FAIR ST                       |     | - 2        |        | / BH318        | 350        |
|                                    |                                    |     |            |        |                |            |

**HMIRS:** The Hazardous Materials Incident Report System contains hazardous material spill incidents reported to the Department of Transportation. The source of this database is the U.S. EPA.

A review of the HMIRS list, as provided by EDR, and dated 10/31/2007 has revealed that there are 5 HMIRS sites within approximately 1.5 miles of the target property.

| Lower Elevation | Address       | Dist / Dir | Map ID  | Page |
|-----------------|---------------|------------|---------|------|
| 2570 HEGEN LN   | 2570 HEGEN LN | 1 - 2 V    | V AO182 | 201  |

| Lower Elevation | Address          | Dist / I | Dir | Map ID | Page |
|-----------------|------------------|----------|-----|--------|------|
| Not reported    | 2446 FAIR ST     | 1 - 2    | WNW | AY258  | 289  |
| Not reported    | 401 OTTERSON AVE | 1 - 2    | W   | BF281  | 315  |
| Not reported    | 401 OTTERSON     | 1 - 2    | W   | BF283  | 315  |
| Not reported    | 401 OTTERSON DR  | 1 - 2    | W   | BF286  | 318  |

MINES: Mines Master Index File. The source of this database is the Dept. of Labor, Mine Safety and Health Administration.

A review of the MINES list, as provided by EDR, and dated 02/07/2008 has revealed that there is 1 MINES site within approximately 1.5 miles of the target property.

| Equal/Higher Elevation | Address | Dist / Dir | Map ID | Page |
|------------------------|---------|------------|--------|------|
| BUTTE CREEK ROCK CO    |         | 1/2 - 1 E  | 170    | 194  |

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

A review of the TRIS list, as provided by EDR, and dated 12/31/2006 has revealed that there are 2 TRIS sites within approximately 1.5 miles of the target property.

| Lower Elevation                                 | Address   | Dist /                | Dir | Map ID                | Page              |
|---|---|-----------------------|-----|-----------------------|-------------------|
| DUCKBACK PRODUCTS CHEMCRAFT COATINGS TECHNOLOGY | <b>2644 HEGAN LN</b><br>311 OTTERSON DR SUITE 6 | <b>1 - 2</b><br>1 - 2 | W   | <b>AU244</b><br>BB269 | <b>269</b><br>298 |

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

A review of the FTTS list, as provided by EDR, and dated 01/15/2008 has revealed that there are 2 FTTS sites within approximately 1.5 miles of the target property.

| Equal/Higher Elevation   | Address             | Dist / Dir | Map ID | Page |
|--------------------------|---------------------|------------|--------|------|
| CHEMTEC, INC.            | 3155 SOUTHGATE LANE | 1/2 - 1 SE | AF129  | 147  |
| CHEMTEC AG CHEMICALS INC | 3155 SOUTHGATE LN   | 1/2 - 1 SE | AF130  | 148  |

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

A review of the HIST FTTS list, as provided by EDR, and dated 10/19/2006 has revealed that there are 2 HIST FTTS sites within approximately 1.5 miles of the target property.

| Equal/Higher Elevation   | Address             | Dist / Dir | Map ID | Page |
|--------------------------|---------------------|------------|--------|------|
| CHEMTEC, INC.            | 3155 SOUTHGATE LANE | 1/2 - 1 SE | AF129  | 147  |
| CHEMTEC AG CHEMICALS INC | 3155 SOUTHGATE LN   | 1/2 - 1 SE | AF130  | 148  |

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

A review of the SSTS list, as provided by EDR, and dated 12/31/2006 has revealed that there are 2 SSTS sites within approximately 1.5 miles of the target property.

| Equal/Higher E | Elevation | Address           | Dist / Dir | Map ID | Page |
|----------------|-----------|-------------------|------------|--------|------|
| CHEMTEC        | (INACTIVE | 3155 SOUTHGATE LN | 1/2 - 1 SE | AF131  | 149  |
| CHEMTEC        |           | 3155 SOUTHGATE LN | 1/2 - 1 SE | AF136  | 152  |

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

A review of the FINDS list, as provided by EDR, and dated 01/04/2008 has revealed that there are 56 FINDS sites within approximately 1.5 miles of the target property.

| Equal/Higher Elevation         | Address                 | Dist / Dir    | Map ID     | Page |
|--------------------------------|-------------------------|---------------|------------|------|
| CHEMTEC AGRI CHEMS INC         | 701 ENTLER AVE          | 1/4 - 1/2 SE  | B10        | 13   |
| NORFIELD MANUFACTURING         | 725 ENTLER AVE          | 1/4 - 1/2 SE  | B11        | 14   |
| PACIFIC BELL                   | 3750 MORROW LANE        | 1/4 - 1/2 N   | D19        | 22   |
| FMC CORP AGRI CHEM GROUP       | 775 ENTLER AVE          | 1/4 - 1/2 SE  | 24         | 33   |
| CHICO METAL FINISHING INC      | 3870 MARROW LANE SUITE  | 1/4 - 1/2 NNE | G25        | 35   |
| SPRAY-CHEM                     | 3851 MORROW LN #13      | 1/4 - 1/2 NNE | G30        | 44   |
| QUADCO PRINTING INC            | 2535 ZANELLA WY         | 1/2 - 1 N     | 36         | 49   |
| MIRACLE AUTO PAINTING          | 2560 DOMINIC            | 1/2 - 1 NNE   | 137        | 52   |
| GARY YOUNIE TRK & AUTO INC.    | 3871 BENATAR WAY        | 1/2 - 1 NNE   | K47        | 65   |
| CALTRANS DISTRICT 3            | 2535 NOTRE DAME BLVD    | 1/2 - 1 NNW   | L57        | 73   |
| UNIVERSAL EQUIPMENT MFG CO INC | 3075 SOUTHGATE LANE     | 1/2 - 1 SE    | <b>S77</b> | 92   |
| KRAGEN AUTO PARTS #1009        | 2485 NOTRE DAME BLVD    | 1/2 - 1 N     | V83        | 98   |
| LUBE DEPOT                     | 2485 NORTE DAME BLVD.   | 1/2 - 1 N     | V86        | 102  |
| RALEYS 287                     | 2485 NOTRE DAME BLVD UN | 1/2 - 1 N     | V88        | 104  |
| VACARO SEED/CALIFORNIA INC.    | 446 SOUTHGATE COURT     | 1/2 - 1 SE    | Z102       | 115  |
| CHEMTEC INC.                   | 3155 SOUTHGATE LANE     | 1/2 - 1 SE    | AF132      | 150  |
| LOWES COMPANIES, INC.          | 2350 FOREST AVENUE      | 1/2 - 1 NNW   | AH142      | 167  |
| CHICO FIRE STATION #4          | 2405 NOTREDAME BLVD.    | 1/2 - 1 N     | AE144      | 169  |
| WITTMEIER AUTO CENTER          | 2288 FOREST AVE         | 1 - 2 NNW     | AQ218      | 237  |
| GRUBER ENTERPRISES             | 2170 HUNTINGTON DR      | 1 - 2 N       | 293        | 325  |
| Lower Elevation                | Address                 | Dist / Dir    | Map ID     | Page |
| GREG KERR TRUCKING             | 1 BAJA CT               | 1/4 - 1/2 SW  | 3          | 7    |

| Lower Elevation   | Address   | Dist / Dir Map ID | Page |
|---|---|-------------------|------|
| WOOD-PLY FOREST PRODUCTS  | 3711 MORROW LANE  | 1/4 - 1/2N E18    | 22   |
| DIAGNOSTIC IMAGING INC  | 3650 MORROW LN  | 1/4 - 1/2 N E22   | 32   |
| HOME DEPOT USA INC HD 6609  | 2580 NOTRE DAME BLVD  | 1/4 - 1/2 NNW F26 | 36   |
| LIFETOUCH NATIONAL SCHOOL STUD  | 2860 FAIR ST  | 1/2 - 1 NW J38    | 54   |
| UNITED RENTALS  | 2855 FAIR STREET  | 1/2 - 1 NW J40    | 58   |
| SMUCKER QUALITY BEVERAGES   | 37 SPEEDWAY AVE   | 1/2 - 1 W O65     | 79   |
| BEAM X RAY INC  | 11025 MIDWAY  | 1/2 - 1 WSW P69   | 82   |
| PATIO CRUISERS, INC.  | 37 SPEEDWAY AVE<br>11025 MIDWAY<br>11088 MIDWAY<br>11128 MIDWAY   | 1/2 - 1 W R73     | 87   |
| OAK RIDGE CABINETS  | 11128 MIDWAY  | 1/2 - 1 W T80     | 97   |
| WEISS/MCNAIR, INC.  | 531 COUNTRY DRIVE   | 1/2 - 1 NW X94    | 109  |
| BEAM X RAY INC PATIO CRUISERS, INC. OAK RIDGE CABINETS WEISS/MCNAIR, INC. VALLEY TRACTOR, INC.  | 489 COUNTRY DRIVE   | 1/2 - 1 NW AB111  | 122  |
| CHEVRON USA INC CHICO CA TERM   | HAGEN LN AT MIDWAY RD   | 1/2 - 1 WNW AD122 | 131  |
| PG&E CHICO SERVICE CENTER   | 11239 MIDWAY  | 1/2 - 1 WNW AD128 | 139  |
| PURITZ OIL CO   | 2421 VALINE WAY   | 1/2 - 1 NW AG137  | 160  |
| DUTTE COUNTY DUDI IO UEAL THEED   | 2445 CARMICHAEL DRIVE   | 1/2 - 1 NW AK162  | 186  |
| CHICO ENTERPRISE RECORD   | 400 E PARK AVE  | 1/2 - 1 NW AL164  | 189  |
| CHICO ENTERPRISE RECORD  KINDER MORGAN/SFPP  SFPP, L.P. CHICO TERMINAL  SHELL OIL - CHICO PLANT | 400 E PARK AVE 2570 HEGAN LANE 2570 HEGAN LANE 2570 HEGAN LN 2605 FAIR ST 2569 SCOTT AVE 2549 SCOTT AVE 2549 SCOTT AVE 275 E PARK AVE | 1-2 W AO176       | 199  |
| SFPP, L.P. CHICO TERMINAL   | 2570 HEGAN LANE   | 1-2 W AO192       | 207  |
| SHELL OIL - CHICO PLANT   | 2570 HEGAN LN   | 1-2 W AO197       | 212  |
| NORTH VALLEY DISPOSAL   | 2605 FAIR ST  | 1 - 2 WNW AP214   | 233  |
| NORTH VALLEY DISPOSAL & RECYCL  | 2569 SCOTT AVE  | 1 - 2 WNW AP227   | 249  |
| NORTHGATE PETROLEUM COMPANY   | 2549 SCOTT AVE  | 1 - 2 WNW AS230   | 250  |
| EVERGREEN OIL CHICO   | 2549 SCOTT AVE  | 1 - 2 WNW AS232   | 254  |
| CHICO COLLISION CTR INC   | 275 E PARK AVE  | 1 - 2 NW AT235    | 257  |
| DUCKBACK PRODUCTS CO INC  | 2644 HEGAN LANE   | 1 - 2 W AU239     | 264  |
| EVERGREEN OIL CHICO CHICO COLLISION CTR INC DUCKBACK PRODUCTS CO INC CAL-WATER SERVICE COCHICO  | 2222 WHITMAN AVENUE   | 1 - 2 NW AZ263    | 292  |
| CHEMCRAFT   | 311 OTTERSON DR. SUITE  | 1 - 2 W BB271     | 299  |
| ATC/VANCOM OF CALIFORNIA  | 326 HUSS DR   | 1 - 2 W BC274     | 306  |
| 3M CHICO  | 402 OTTERSON DR   | 1 - 2 W BF288     | 319  |
| QWEST CHICO TI  | 402 OTTERSON DRIVE  | 1 - 2 W BF289     | 322  |
| CASCADE ORTHOPEDIC SUPPLY INC   | 415 OTTERSON DR STE 70  | 1 - 2 W BF294     | 326  |
| LARSON HULLER & DRYER   | 1035 BRUCE LANE   | 1 - 2 SW BI304    | 335  |
| WREX PRODUCTS INCORPORATED  | 25 WREX CT.   | 1 - 2 WNW BJ309   | 339  |
| COSTCO NO 136   | 2100 WHITMAN AVE.   | 1 - 2 NW BK312    | 344  |
| WESTGATE HARDWOODS, INC   | 226 MEYERS ST   | 1 - 2 WNW BJ320   | 351  |
|   |   |                   |      |

#### STATE AND LOCAL RECORDS

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, and dated 03/10/2008 has revealed that there is 1 SWF/LF site within approximately 1.5 miles of the target property.

| Lower Elevation       | Address        | Dist / Dir | Map ID  | Page |  |
|-----------------------|----------------|------------|---------|------|--|
| USA WASTE OF CA CHICO | 2569 SCOTT AVE | 1 - 2 WNV  | V AP226 | 247  |  |

CA WDS: California Water Resources Control Board - Waste Discharge System.

A review of the CA WDS list, as provided by EDR, and dated 06/19/2007 has revealed that there are 10 CA WDS sites within approximately 1.5 miles of the target property.

| Lower Elevation            | Address                | Dist / Dir  | Map ID  | Page |
|----------------------------|------------------------|-------------|---------|------|
| WOODPLY FOREST PRODUCTS    | 3711 MORROW LN         | 1/4 - 1/2N  | E16     | 20   |
| LANGE JESSE M DISTRIBUTING | 11226 MIDWAY AVE       | 1/2 - 1 WN\ | W AD118 | 126  |
| CHICO TERMINAL             | 2570 HEGAN LN          | 1-2 W       | AO211   | 217  |
| JOHNS                      | 381 E PARK AVE         | 1 - 2 NW    | AR224   | 245  |
| USA WASTE OF CA CHICO      | 2569 SCOTT AVE         | 1 - 2 WN    | N AP226 | 247  |
| ALTERNATIVE MATERIALS TECH | 311 OTTERSON DR STE 60 | 1-2 W       | BB270   | 298  |
| ATC/VANCOM OF CALIFORNIA   | 326 HUSS DR            | 1-2 W       | BC274   | 306  |
| UPS CHICO - CACHI          | 401 OTTERSON RD        | 1-2 W       | BF285   | 317  |
| WREX PRODUCTS              | 25 WREX CT             | 1 - 2 WN    | N BJ311 | 341  |
| FAIRVIEW AUTO WRECKERS     | 2437 PARK AVE          | 1 - 2 WN\   | N 322   | 352  |

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

A review of the Cortese list, as provided by EDR, and dated 04/01/2001 has revealed that there are 18 Cortese sites within approximately 1.5 miles of the target property.

| Equal/Higher Elevation  | Address  | Dist / Dir Map ID  | Page  |
|---|--|--|---|
| ROUSSER DISTRIBUTING<br>PACIFIC BELL<br>WALMART STORE #2044   | 71 LOREN RD<br>3750 MORROW LANE<br>2044 FOREST AVE   | 1/4 - 1/2SE A5<br>1/4 - 1/2N D19<br>1 - 2 NNW AX256  | 9<br>22<br>284  |
| Lower Elevation   | Address  | Dist / Dir Map ID  | Page  |
| BECHHOLD, ROY E. & JUANIT PACIFIC STIHL CAPITOL COORS LANGE JESSE DISTRIBUTOR I PG&E CHICO SERVICE CENTER GAS MART WEST VALLEY CONSTRUCTION CHICO TERMINAL WONDER BREAD THRIFT STORE NORTHLAND TRANSPORTATION PARK AVENUE MOTORS FOOD & LIQUOR #159 CHICO WILLIAMSON G PROPERTIES | 496 ENTLER 11096 MIDWAY AVE 11110 MIDWAY AVE 11226 MIDWAY 480 PARK AVE E 11276 MIDWAY 2570 HEGAN LN 385 PARK AVE E 2549 SCOTT 275 PARK AVE E 110 PARK 2480 FAIR ST | 0 - 1/8 SSW 1 1/2 - 1 W R74 1/2 - 1 W R75 1/2 - 1 WNW AD115 1/2 - 1 WNW AD128 1/2 - 1 NW AI154 1/2 - 1 WNW AM169 1 - 2 W AO211 1 - 2 NW AR222 1 - 2 WNW AS231 1 - 2 NW AV250 1 - 2 WNW AW250 1 - 2 WNW AW250 | 6<br>87<br>89<br>125<br>139<br>178<br>194<br>217<br>242<br>251<br>262<br>278<br>287 |
| DELTA LINES<br>WREX PRODUCTS  | 2446 FAIR ST<br>25 WREX CT   | 1 - 2 WNW AY262<br>1 - 2 WNW BJ311   | 290<br>341  |

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 01/07/2008 has revealed that there is 1 SWRCY site within approximately 1.5 miles of the target property.

| Lower Elevation       | Address        | Dist / Dir | Map ID  | Page |
|-----------------------|----------------|------------|---------|------|
| USA WASTE OF CA CHICO | 2569 SCOTT AVE | 1 - 2 WNV  | V AP226 | 247  |

**LUST:** The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 01/07/2008 has revealed that there are 20 LUST sites within approximately 1.5 miles of the target property.

| Equal/Higher Elevation   | Address          | Dist / Dir Map ID | Page |
|--|------------------|-------------------|------|
| ROUSSER DISTRIBUTING Facility Status: Case Closed                          | 71 LOREN RD      | 1/4 - 1/2SE A5    | 9    |
| PACIFIC BELL Facility Status: Case Closed Facility Status: Case Closed     | 3750 MORROW LANE | 1/4 - 1/2N D19    | 22   |
| CHEVRON/FLYERS #50 Facility Status: Pollution Characterization             | 2501 NOTRE DAME  | 1/2 - 1 N 72      | 84   |
| FRED MEYER Facility Status: Case Closed                                    | 2350 FOREST AVE  | 1/2 - 1 NNW AH141 | 165  |
| WALMART STORE #2044 Facility Status: Case Closed                           | 2044 FOREST AVE  | 1 - 2 NNW AX256   | 284  |
| Lower Elevation  | Address          | Dist / Dir Map ID | Page |
| PACIFIC STIHL Facility Status: Case Closed                                 | 11096 MIDWAY AVE | 1/2 - 1 W R74     | 87   |
| CAPITOL COORS Facility Status: Case Closed                                 | 11110 MIDWAY AVE | 1/2 - 1 W R75     | 89   |
| JESSE M. LANGE DISTRIBUTING IN Facility Status: Pollution Characterization | 11226 MIDWAY AVE | 1/2 - 1 WNW AD119 | 127  |
| CHICO SERVICE CENTER Facility Status: Case Closed                          | 11239 MIDWAY     | 1/2 - 1 WNW AD127 | 136  |
| PG&E CHICO SERVICE CENTER Facility Status: Case Closed                     | 11239 MIDWAY     | 1/2 - 1 WNW AD128 | 139  |
| GAS MART Facility Status: Case Closed                                      | 480 PARK AVE E   | 1/2 - 1 NW AI154  | 178  |
| WEST VALLEY CONSTRUCTION CO Facility Status: Case Closed                   | 11276 MIDWAY AVE | 1/2 - 1 WNW AM166 | 190  |
| CHICO TERMINAL Facility Status: Pollution Characterization                 | 2570 HEGAN LN    | 1 - 2 W AO211     | 217  |
| WONDER BREAD THRIFT STORE Facility Status: Case Closed                     | 385 PARK AVE E   | 1-2 NW AR222      | 242  |
| PARK AVENUE MOTORS Facility Status: Case Closed                            | 275 PARK AVE E   | 1 - 2 NW AT237    | 262  |
| FOOD & LIQUOR #159 CHICO Facility Status: Case Closed                      | 110 PARK         | 1 - 2 WNW AW250   | 278  |
| WILLIAMSON G PROPERTIES Facility Status: Case Closed                       | 2480 FAIR ST     | 1 - 2 WNW AW257   | 287  |
| DELTA LINES Facility Status: Case Closed                                   | 2446 FAIR ST     | 1 - 2 WNW AY262   | 290  |
| CONOVER RESIDENCE<br>Facility Status: Case Closed                          | 2470 VALINE LN   | 1 - 2 WNW BE279   | 312  |

| Lower Elevation                            | Address    | Dist / Dir | Map ID  | Page |
|--|------------|------------|---------|------|
| WREX PRODUCTS Facility Status: Case Closed | 25 WREX CT | 1 - 2 WN   | W BJ311 | 341  |

**CA FID UST:** The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 20 CA FID UST sites within approximately 1.5 miles of the target property.

| Equal/Higher Elevation  | Address  | Dist / Dir   | Map ID                          | Page   |
|---|--|--|---------------------------------|--|
| PACIFIC BELL GARY YOUNIE TRUCK & AUTO REPAI AAMCO TRANSMISSIONS   | 3750 MORROW LANE<br>3871 BENATAR WAY<br>3880 BENATAR WAY   | 1/4 - 1/2 N<br>1/2 - 1 NNE<br>1/2 - 1 NNE  | <b>D19</b><br><b>K45</b><br>K50 | <b>22 62</b> 67  |
| Lower Elevation   | Address  | Dist / Dir   | Map ID                          | Page   |
| CHICO TRANSPORTATION G.E. WEISS AGRI ELECTRIC WEISS / MCNAIR INC BOB HARTMAN & BEVERLY JESSE M LANGE DISTRIBUTOR INC CHICO SERVICE CENTER PARK AVE TEXACO CHICO UNIF SCHOOL DIST/CORP YD WEST VALLEY CONSTRUCTION CO. I WONDER BREAD PARK AVENUE MOTORS DONALD E. MARCH FOOD AND LIQUOR #159 DELTA LINES HESTER G. PATRICK SILVER DOLLAR FAIR | 2840 FAIR ST 594 PASEO COMPANEROS 11011 MIDWAY 531 COUNTRY DR 163 MCFADDEN LN 11226 MIDWAY 11239 MIDWAY 480 E PARK AVE 2455 CARMICHAEL DR 11276 MIDWAY 385 E PARK AVE 275 E PARK AVE 110 E PARK 2446 FAIR ST 10381 MIDWAY 2357 FAIR ST | 1/2 - 1 WNW<br>1/2 - 1 NW<br>1/2 - 1 NW<br>1/2 - 1 WNW<br>1 - 2 NW<br>1 - 2 NW<br>1 - 2 WNW<br>1 - 2 WNW<br>1 - 2 WNW<br>1 - 2 WNW |                                 | 61<br>76<br>81<br>110<br>117<br>126<br>136<br>172<br>182<br>192<br>244<br>261<br>276<br>280<br>290<br>311<br>330 |

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 01/07/2008 has revealed that there are 6 SLIC sites within approximately 1.5 miles of the target property.

| Lower Elevation   | Address                                  | Dist / Dir            | Map ID         | Page              |
|---|--|-----------------------|----------------|-------------------|
| PETERSON TRACTOR COMPANY Facility Status: Pollution Characterization                    | 425 SOUTHGATE AVE.                       | 1/4 - 1/2SS           | E H29          | 44                |
| WESTERN PETROLEUM MARKETERS Facility Status: Case Closed                                | 11204 MIDWAY                             | 1/2 - 1 W             | AC112          | 123               |
| LANGE JESSE DISTRIBUTOR I Facility Status: Remediation Plan                             | 11226 MIDWAY                             | 1/2 - 1 WI            | IW AD115       | 125               |
| PG&E CHICO SERVICE CENTER Facility Status: Case Closed                                  | 11239 MIDWAY                             | 1/2 - 1 WI            | IW AD128       | 139               |
| WALLACE J SMITH FAMILY TRUST  CHICO TERMINAL  Facility Status: Remedial Action Underway | 2575 SOUTH WHITMAN PLAC<br>2570 HEGAN LN | 1/2 - 1 NV<br>1 - 2 W | AG155<br>AO211 | 180<br><b>217</b> |

**UST:** The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 01/07/2008 has revealed that there are 11 UST sites within approximately 1.5 miles of the target property.

| Equal/Higher Elevation   | Address   | Dist / Dir   | Map ID   | Page   |
|--|---|--|--|--|
| PACIFIC BELL FOOTHILL CAR WASH GOLDEN GATE PETROLEUM - CHICO   | 3750 MORROW LANE<br>1020 SKYWAY<br>2036 FOREST AVE  | <b>1/4 - 1/2 N</b><br>1/2 - 1 N<br>1 - 2 NNW                 | <b>D19</b><br>Q71<br>272   | <b>22</b><br>84<br>305                               |
| Lower Elevation  | Address   | Dist / Dir   | Map ID   | Page   |
| BOB & BEVERLY HARTMAN JESSE M LANGE DISTRIBUTOR INC PACIFIC GAS & ELECTRIC CO CHICO UNIF SCHOOL DIST/CORP YD TOWER MART #159 HESTER G. PATRICK U.P.S. SILVER DOLLAR FAIR | 163 MCFADDEN LN 11226 MIDWAY 11239 MIDWAY 2455 CARMICHAEL DR 110 E PARK AVE 10381 MIDWAY 401 OTTERSON DR 2357 FAIR ST | 1/2 - 1 WNW<br>1/2 - 1 NW<br>1 - 2 WNW<br>1 - 2 S<br>1 - 2 W | AA106<br>AD120<br>AD125<br>AK161<br>AW251<br>BD276<br>BF282<br>BH299 | 117<br>129<br>135<br>184<br>280<br>310<br>315<br>331 |

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 40 HIST UST sites within approximately 1.5 miles of the target property.

| Equal/Higher Elevation                    | Address                 | Dist / Dir    | Map ID       | Page |
|---|-------------------------|---------------|--------------|------|
| LONGFELLOW LUMBER CO., INC.               | 89 LOREN AVE            | 1/4 - 1/2SE   | A8           | 12   |
| LONGFELLOW LUMBER CO. INC.                | 89 LOREN AVE            | 1/4 - 1/2 SE  | A9           | 12   |
| CHICO TREE IMPROVEMENT CENTER             | 2741 CRAMER LN          | 1/4 - 1/2 ENE | C14          | 17   |
| PACIFIC BELL                              | 3750 MORROW LANE        | 1/4 - 1/2N    | D19          | 22   |
| M.E.M. MASONRY, INC.                      | 3851 MORROW LN          | 1/4 - 1/2 NNE | G31          | 46   |
| AAMCO TRANSMISSIONS                       | 3880 BENATAR WAY STE I  | 1/2 - 1 NNE   | 34           | 47   |
| <b>GARY YOUNIE TRUCK &amp; AUTO REPAI</b> | 3871 BENATAR WAY        | 1/2 - 1 NNE   | K48          | 66   |
| CAL-TRANS                                 | 2535 NOTRE DAME BLVD    | 1/2 - 1 NNW   | L54          | 70   |
| CHICO                                     | 2535 NOTRE DAME BLVD    | 1/2 - 1 NNW   | A 100 (2000) | 71   |
| CHEMTEC AGRICULTURAL CHEMICALS            | 3155 SOUTHGATE LN       | 1/2 - 1 SE    | AF133        | 150  |
| Lower Elevation                           | Address                 | Dist / Dir    | Map ID       | Page |
| THE NEIGHBORHOOD CHURCH OF CHI            | 2801 NOTRE DAME BLVD    | 1/8 - 1/4 N   | 2            | 6    |
| PETERSON TRACTOR CO.                      | 425 SOUTHGATE AVE       | 1/4 - 1/2 SSE | H28          | 42   |
| CHICO TRANSPORTATION                      | 2840 FAIR ST            | 1/2 - 1 NW    | J43          | 60   |
| G.E. WEISS                                | 594 PASEO COMPANEROS ST | 1/2 - 1 WNW   | N61          | 77   |
| WEISS                                     | 594 PASEO COMPANEROS ST | 1/2 - 1 WNW   | / N62        | 77   |
| AGRI ELECTRIC                             | 11011 MIDWAY            | 1/2 - 1 WSW   | P68          | 82   |
| VALLEY WIDE CHEMICAL CO., INC.            | 11128 MIDWAY            | 1/2 - 1 W     | <b>T78</b>   | 93   |
| <b>BIGGERS PLUMBING &amp; HEATING</b>     | 551 COUNTRY DR          | 1/2 - 1 NW    | U89          | 105  |
| WEISS/MCNAIR INC                          | 531 COUNTRY DR          | 1/2 - 1 NW    | X95          | 109  |
| WEISS/MC NAIR INC                         | 531 COUNTRY DR          | 1/2 - 1 NW    | X97          | 111  |
| <b>BOB HARTMAN &amp; BEVERLY</b>          | 163 MCFADDEN LN         | 1/2 - 1 S     | AA104        | 116  |
| MID VALLEY TRACTOR CO.                    | 489 COUNTRY DR          | 1/2 - 1 NW    | AB109        | 119  |
| JESSE M LANGE DISTRIBUTOR INC             | 11226 MIDWAY            |               | / AD120      | 129  |
| CHICO SERVICE CENTER                      | 11239 MIDWAY            | 1/2 - 1 WNW   | / AD124      | 134  |

| Lower Elevation                | Address        | Dist / Dir | Map ID  | Page |
|--------------------------------|----------------|------------|---------|------|
| PARK AVE TEXACO                | 480 E PARK AVE | 1/2 - 1 NW | AI151   | 175  |
| WEST VALLEY CONSTRUCTION CO. I | 11276 MIDWAY   | 1/2 - 1 WN | N AM168 | 193  |
| ITT CONTINENTAL BAKING CO.     | 385 E PARK AVE | 1 - 2 NW   | AR221   | 241  |
| JOHNS                          | 381 E PARK AVE | 1 - 2 NW   | AR224   | 245  |
| GLEN E. BIGGERS                | 375 E PARK AVE | 1 - 2 NW   | AR225   | 247  |
| COURTESY MOTORS BMW/SUBARU     | 275 E PARK AVE | 1-2 NW     | AT238   | 264  |
| DONALD E. MARCH                | 772 CESSNA AVE | 1-2 W      | AV246   | 276  |
| FOOD AND LIQUOR #159           | 110 E PARK AVE | 1 - 2 WN   | N AW253 | 282  |
| DELTA LINES                    | 2446 FAIR ST   | 1 - 2 WN   | N AY260 | 289  |
| HESTER G. PATRICK              | 10381 MIDWAY   | 1-2 S      | BD276   | 310  |
| SILVER DOLLAR FAIR             | 2357 FAIR ST   | 1 - 2 WN   | W BH299 | 331  |
| 3RD D.A.A. SILVER DOLLAR FAIR  | 2357 FAIR ST   | 1-2 WN     | N BH300 | 332  |
| CHICO SUBSTATION               | 2415 VALINE LN | 1 - 2 WN   | N BG303 | 334  |
| PETERS TRUCK LINES             | 140 MEYERS ST  | 1 - 2 WN   | N BG307 | 338  |
| WREX PRODUCTS INC. OF CHICO    | 25 WREX CT     | 1 - 2 WN   | N BJ310 | 340  |
| FOREMOST RENTS PROPERTY        | 208 MEYERS ST  | 1 - 2 WN   | N BJ316 | 348  |

**AST:** The Aboveground Storage Tank database contains registered ASTs. The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the AST list, as provided by EDR, and dated 11/01/2007 has revealed that there are 10 AST sites within approximately 1.5 miles of the target property.

| Equal/Higher Elevation       | Address               | Dist / Dir  | Map ID  | Page |
|------------------------------|-----------------------|-------------|---------|------|
| CALTRANS CHICO M.S. DIST 3   | 2535 NOTRE DAME BLVD. | 1/2 - 1 NNW | L58     | 75   |
| THE DANIELSEN CO INC         | 435 SOUTHGATE CT      | 1/2 - 1 SE  | W99     | 113  |
| HELENA CHEMICAL CO           | 3155 SOUTHGATE LN.    | 1/2 - 1 SE  | AF134   | 151  |
| MATHEWS READYMIX             | 1619 THE SKYWAY       | 1/2 - 1 ENE | AN172   | 197  |
| Lower Elevation              | Address               | Dist / Dir  | Map ID  | Page |
| UNITED RENTALS               | 2855 FAIR STREET      | 1/2 - 1 NW  | J40     | 58   |
| JESSE LANGE DISTRIBUTOR INC. | 11226 MIDWAY          | 1/2 - 1 WNW | / AD117 | 126  |
| CHICO BULK PLANT             | 2518 HEGAN LANE       | 1/2 - 1 WNW | / AD147 | 171  |
| CHICO TERMINAL               | 2570 HEGAN LN         | 1-2 W       | A0211   | 217  |
| NORTHLAND TRANSPORTATION     | 2549 SCOTT            | 1 - 2 WNW   | / AS231 | 251  |
| DUCKBACK PRODUCTS            | 2644 HEGAN LN         | 1 - 2 W     | AU244   | 269  |

**SWEEPS UST:** Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 22 SWEEPS UST sites within approximately 1.5 miles of the target property.

| Equal/Higher Elevation         | Address          | Dist / Dir   | Map ID | Page |
|--------------------------------|------------------|--------------|--------|------|
| RAUSSER DISTRIBUTING           | 71 LOREN AVE     | 1/4 - 1/2 SE | A6     | 11   |
| PACIFIC BELL                   | 3750 MORROW LANE | 1/4 - 1/2 N  | D19    | 22   |
| GARY YOUNIE TRUCK & AUTO REPAI | 3871 BENATAR WAY | 1/2 - 1 NNE  | K45    | 62   |
| Lower Elevation                | Address          | Dist / Dir   | Map ID | Page |
| CHICO TRANSPORTATION           | 2840 FAIR ST     | 1/2 - 1 NW   | J44    | 61   |

| Lower Elevation                | Address              | Dist / Dir | Map ID    | Page |
|--------------------------------|----------------------|------------|-----------|------|
| G.E. WEISS                     | 594 PASEO COMPANEROS | 1/2 - 1 V  | VNW N60   | 76   |
| AGRI ELECTRIC                  | 11011 MIDWAY         | 1/2 - 1 V  | VSW P67   | 81   |
| WEISS/MCNAIR INC               | 531 COUNTRY DR       | 1/2 - 1 N  | IW X95    | 109  |
| WEISS / MCNAIR INC             | 531 COUNTRY DR       | 1/2 - 1 N  | IW X96    | 110  |
| BOB & BEVERLY HARTMAN          | 163 MCFADDEN LN      | 1/2 - 1 S  | AA106     | 117  |
| JESSE M LANGE DISTRIBUTOR INC  | 11226 MIDWAY         | 1/2 - 1 V  | VNW AD120 | 129  |
| CHICO SERVICE CENTER           | 11239 MIDWAY         | 1/2 - 1 V  | VNW AD127 | 136  |
| PARK AVE TEXACO                | 480 E PARK AVE       | 1/2 - 1 N  | IW AI150  | 172  |
| CHICO UNIF SCHOOL DIST/CORP YD | 2455 CARMICHAEL DR   | 1/2 - 1 N  | IW AK161  | 184  |
| WEST VALLEY CONSTRUCTION CO. I | 11276 MIDWAY         | 1/2 - 1 V  | VNW AM167 | 192  |
| WONDER BREAD                   | 385 E PARK AVE       | 1-2 N      | IW AR223  | 244  |
| HAL W. CARPENTER               | 767 SKYWAY AVE       | 1-2 V      | V 233     | 255  |
| PARK AVENUE MOTORS             | 275 E PARK AVE       | 1-2 N      | IW AT236  | 261  |
| DONALD E. MARCH                | 772 CESSNA AVE       | 1-2 V      | V AV247   | 276  |
| FOOD AND LIQUOR #159           | 110 E PARK           | 1-2 V      | VNW AW252 | 280  |
| DELTA LINES                    | 2446 FAIR ST         | 1-2 V      | VNW AY262 | 290  |
| HESTER G. PATRICK              | 10381 MIDWAY         | 1-2 S      | BD276     | 310  |
| SILVER DOLLAR FAIR             | 2357 FAIR ST         | 1-2 V      | VNW BH299 | 331  |

**CHMIRS:** The California Hazardous Material Incident Report System contains information on reported hazardous material incidents, i.e., accidental releases or spills. The source is the California Office of Emergency Services.

A review of the CHMIRS list, as provided by EDR, and dated 12/31/2005 has revealed that there are 11 CHMIRS sites within approximately 1.5 miles of the target property.

| Equal/Higher Elevation   | Address   | Dist / Dir                                    | Map ID  | Page                                   |
|--|---|---|---|--|
| Not reported<br>Date Completed: 06-AUG-91  | 24 NEV DAWN CIRCLE  | 1 - 2 N                                       | 234   | 256                                    |
| Lower Elevation  | Address   | Dist / Dir                                    | Map ID  | Page                                   |
| Not reported Not reported Not reported CHICO TERMINAL Date Completed: 21-MAY-90                              | 11204 MIDWAY RD<br>EAST PARK AVE/ CARMICHA<br>2570 HAGEN LANE<br><b>2570 HEGAN LN</b>           | 1/2 - 1 W<br>1/2 - 1 NW<br>1 - 2 W<br>1 - 2 W | AC113<br>/ Al145<br>AO173<br>AO211                        | 123<br>169<br>198<br><b>217</b>        |
| NORTHLAND TRANSPORTATION  Not reported  Not reported  Not reported  Not reported  Not reported  Not reported | 2549 SCOTT 2644 HEAGAN LANE 311 OTTERSON DRIVE 2750 HEGAN LN 2449 VALINE CT #B 2334 FAIR STREET | 1 - 2 W<br>1 - 2 W<br>1 - 2 W<br>1 - 2 W      | AW AS231<br>AU240<br>BB268<br>273<br>AW BE291<br>AW BH317 | 251<br>266<br>296<br>305<br>323<br>348 |

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

A review of the DRYCLEANERS list, as provided by EDR, and dated 07/31/2007 has revealed that there

are 3 DRYCLEANERS sites within approximately 1.5 miles of the target property.

| Equal/Higher Elevation                       | Address                                      | Dist / Dir             | Map ID     | Page      |
|--|--|------------------------|------------|-----------|
| PEDEN ENT DBA SKYPARK PLAZA CL<br>JIFFY LUBE | 2485 NOTRE DAME BLVD<br>2454 NOTRE DAME BLVD | 1/2 - 1 N<br>1/2 - 1 N | V84<br>103 | 99<br>115 |
| Lower Elevation                              | Address                                      | Dist / Dir             | Map ID     | Page      |
| NEWTON AVIATION CONSULTING LLC               | 2575 S WHITMAN PL                            | 1/2 - 1 NW             | AG156      | 180       |

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

A review of the CDL list, as provided by EDR, and dated 09/30/2007 has revealed that there are 2 CDL sites within approximately 1.5 miles of the target property.

| Lower Elevation       | Address               | Dist / Dir        | Map ID         | Page       |
|-----------------------|-----------------------|-------------------|----------------|------------|
| Not reported          | 476 E. PARK AVE       | 1/2 - 1 NW        | Al157          | 181        |
| USA WASTE OF CA CHICO | <b>2569 SCOTT AVE</b> | <b>1 - 2 WN</b> V | <b>V AP226</b> | <b>247</b> |

**HAZNET:** The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000-1,000,000 annually, representing approximately 350,000-500,000 shipments. Data from non-California manifests & continuation sheets are not included at the present time. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, & disposal method. The source is the Department of Toxic Substance Control is the agency

A review of the HAZNET list, as provided by EDR, and dated 12/31/2006 has revealed that there are 110 HAZNET sites within approximately 1.5 miles of the target property.

| Equal/Higher Elevation         | Address                | Dist / Dir    | Map ID      | Page |
|--------------------------------|------------------------|---------------|-------------|------|
| HUPP NEON LLC                  | 70 LOREN AVE           | 1/4 - 1/2SE   | A4          | 8    |
| RAUSSER DISTRIBUTING           | 71 LOREN AVE           | 1/4 - 1/2SE   | A6          | 11   |
| LONGFELLOW LUMBER CO           | 89 LOREN AVE           | 1/4 - 1/2SE   | A7          | 11   |
| NORFIELD INDUSTRIES            | 725 ENTLER AVE         | 1/4 - 1/2SE   | B12         | 15   |
| USFS GENIC RESOURCE CENTER     | 2741 CRAMER LANE       | 1/4 - 1/2 ENE | C13         | 16   |
| CHICO TREE IMPROVEMENT CENTER  | 2741 CRAMER LN         | 1/4 - 1/2ENE  | C14         | 17   |
| SUNSERI CONSTRUCTION INC       | 48 COMANCHE CT         | 1/4 - 1/2 N   | D15         | 19   |
| PACIFIC BELL                   | 3750 MORROW LANE       | 1/4 - 1/2 N   | D19         | 22   |
| MATT ODELL                     | 3750 MORROW LANE       | 1/4 - 1/2N    | D20         | 31   |
| PACIFIC BELL TELEPHONE CO DBA  | 3750 MORROW LN         | 1/4 - 1/2N    | D21         | 31   |
| TRI COUNTIES BANK              | 2560 DOMINIC DR UNIT B | 1/2 - 1 NNE   | 100 A CONT. | 46   |
| KPAY RADIO                     | 2654 CRAMER LANE       | 1/2 - 1 NE    | 33          | 47   |
| QUADCO PRINTING INC            | 2535 ZANELLA WY        | 1/2 - 1 N     | 36          | 49   |
| MIRACLE AUTO PAINTING          | 2560 DOMINIC           | 1/2 - 1 NNE   |             | 52   |
| GARY YOUNIE TRUCK & AUTO REPAI | 3871 BENATAR WAY       | 1/2 - 1 NNE   | K46         | 63   |
| GOLD COUNTRY HYDRAULIC & HOSE  | 3881 BENATAR WY STE D  | 1/2 - 1 NNE   | 2021/00/02  | 67   |
| DOJ CRIMINALISTICS LABORATORY  | 3870 MORROW LN SUITE A | 1/2 - 1 NNE   | 51          | 68   |
| MIRACLE AUTO PAINTING & BODY R | 2560 DOMINIC           | 1/2 - 1 NNE   | 153         | 69   |
| CALTRANS DISTRICT 3            | 2535 NOTRE DAME BLVD   |               | / L56       | 72   |
| AAMCO TRANSMISSION CTR #5270   | 2540 DOMINICDR         | 1/2 - 1 NNE   | M59         | 75   |
| NORTH VALLEY EMERGENCY VET CLI | 2525 DOMINIC DRIVE     | 1/2 - 1 NNE   | M63         | 78   |
| EUROPEAN MOTORSPORT            | 2520-D DOMINIC DR      | 1/2 - 1 NNE   | M64         | 78   |

| Equal/Higher Elevation                                   | Address  | Dist / Dir Map ID                           | Page              |
|--|--|---|-------------------|
| SKYPARK AUTO WASH  | 1020 SKYWAY  | 1/2 - 1 N Q70                               | 83                |
| CHEVRON/FLYERS #50                                       | 2501 NOTRE DAME  | 1/2 - 1 N 72                                | 84                |
| UNIBLAST TECHNOLOGIES INC                                | 3075 SOUTHGATE LANE  | 1/2 - 1 SE S76                              | 91                |
| KRAGEN AUTO PARTS STORE #1009                            | 2485 NOTRE DAME BLVD   | 1/2 - 1 N V82                               | 98                |
| PEDEN ENT DBA SKYPARK PLAZA CL                           | 2485 NOTRE DAME BLVD   | 1/2 - 1 N V84                               | 99                |
| S & J LUBRICATION INC OIL CAN                            | 2485 NOTRE DAME BLVD   | 1/2 - 1 N V85                               | 101               |
| RALEY'S #287/249   | 2485 NOTRE DAME BLVD UN  | 1/2 - 1 N V87<br>1/2 - 1 SE W90             | 102<br>105        |
| NORCAL WASTE SYSTEMS OF BUTTE                            | 3097 SOUTHGATE LN #B<br>3097 SOUTHGATE LANE                              | 1/2 - 1 SE W90                              | 106               |
| BUTTE COUNTY DISPOSAL<br>BUTTE DISPOSAL & RECYCLING INC  | 3097 SOUTHGATE LANE  | 1/2 - 1 SE W92                              | 107               |
| VACCARO SEED CALIFORNIA INC                              | 446 SOUTHGATE CT   | 1/2 - 1 SE Z100                             | 113               |
| JIFFY LUBE   | 2454 NOTRE DAME BLVD   | 1/2 - 1 N 103                               | 115               |
| LES SCHWAB TIRE CENTERS OF CA                            | 2420 NOTRE DAME BLVD   | 1/2 - 1 N AE121                             | 130               |
| HELENA CHEMICAL COMPANY                                  | 3155 SOUTHGATE LN  | 1/2 - 1 SE AF135                            | 151               |
| LOWES HIW INC-CHICO #1201                                | 2350 FORREST AVE   | 1/2 - 1 NNW AH139                           | 162               |
| FRED MEYER   | 2350 FOREST AVE  | 1/2 - 1 NNW AH141                           | 165               |
| MATHEWS READYMIX LLC                                     | 1619 SKYWAY  | <b>1/2 - 1 ENE AN171</b><br>1 - 2 NNW AQ216 | <b>195</b><br>234 |
| FOREST ANIMAL HOSPITAL WITTMEIER CHEVROLET               | 2202 EODEST AVE  | 1 - 2 NNW AQ210                             | 234               |
| ED WITTMEIER FORD INC                                    | 2288 FOREST AVE  | 1-2 NNW AQ219                               | 239               |
| WAL-MART STORE #2044                                     | 555 FLYING V ST<br>2292 FOREST AVE<br>2288 FOREST AVE<br>2044 FOREST AVE | 1 - 2 NNW AX255                             | 284               |
| WALMART STORE #2044                                      | 2044 FOREST AVE  | 1 - 2 NNW AX256                             | 284               |
| Lower Elevation  | Address  | Dist / Dir Map ID                           | Page              |
| PAYLESS BLDG. SUPPLY                                     | 2600 NOTRE DAME BLVD.  | 1/4 - 1/2NNW F23                            | 33                |
| HOME DEPOT USA INC HD 6609                               | 2580 NOTRE DAME BLVD   | 1/4 - 1/2 NNW F26                           | 36                |
| PETERSON TRACTOR CO.                                     | 2600 NOTRE DAME BLVD.<br>2580 NOTRE DAME BLVD<br>425 SOUTHGATE AVE       | 1/4 - 1/2 SSE H28                           | 42                |
| LIFETOUCH NATIONAL SCHOOL STUD                           | 2800 FAIR 51   | 1/2 - 1 INVV J30                            | 54                |
| US RENTALS INC   | 2855 FAIR ST   | 1/2 - 1 NW J39                              | 58                |
| UNITED RENTALS INC #558                                  | 2855 FAIR ST   | 1/2 - 1 NW J42<br>1/2 - 1 W 066             | 60<br><b>79</b>   |
| SMUCKER'S QUALITY BEVERAGES<br>CAPITOL COORS             | 37 SPEEDWAY AVE<br>11110 MIDWAY AVE                                      | 1/2 - 1 W R75                               | 89                |
| OAK RIDGE CABINETS INC                                   | 11128 MIDWAY   | 1/2 - 1 W T79                               | 95                |
| U HAUL CENTER OF CHICO                                   | 600 COUNTRY DRIVE  | 1/2 - 1 NW U81                              | 97                |
| WEISS-MCNAIR INC   | 531 COUNTRY DR   | 1/2 - 1 NW X93                              | 109               |
| ERICKSON VETERINARY HOSPITAL                             | 11181 MIDWAY   | 1/2 - 1 W Y98                               | 112               |
| OMEGA TANK & TRUCK REPAIR INC                            | 11196 MIDWAY   | 1/2 - 1 W Y107                              | 118               |
| H C SHAW CO/DBA FISCO                                    | 491 COUNTRY DR   | 1/2 - 1 NW AB108                            | 119               |
| MIDVALLEY TRACTOR COMPANY                                | 489 COUNTRY DRIVE<br>11204 MIDWAY  | 1/2 - 1 NW AB110<br>1/2 - 1 W AC112         | 120<br>123        |
| WESTERN PETROLEUM MARKETERS JESSE LANGE DISTRIBUTING INC | 11226 MIDWAY   | 1/2 - 1 WNW AD114                           | 125               |
| PACIFIC GAS & ELECTRIC                                   | 11239 MIDWAY   | 1/2 - 1 WNW AD114                           | 135               |
| PG&E CHICO SERVICE CENTER                                | 11239 MIDWAY   | 1/2 - 1 WNW AD128                           | 139               |
| NORTH VALLEY AUTO SERVICE                                | 2545 GILMAN WAY  | 1/2 - 1 NW AG138                            | 161               |
| CROSS PETROLEUM INC                                      | 2518 HEGAN LN  | 1/2 - 1 WNW AD146                           | 170               |
| NORTH VALLEY IRON WORKS INC.                             | 11254 MIDWAY   | 1/2 - 1 WNW AJ148                           | 171               |
| NORTH VALLEY IRON WORKS                                  | 11254 MIDWAY   | 1/2 - 1 WNW AJ149                           | 172               |
| GAS MART STATION   | 480 EAST PARK AVE  | 1/2 - 1 NW AI152<br>1/2 - 1 NW AI153        | 177<br>177        |
| ROTH TRUST<br>CHICO MOBILE A.C. & RADIATOR               | 480 EAST PARK AVENUE<br>2565 S. WHITMAN PLACE                            | 1/2 - 1 NW AI153<br>1/2 - 1 NW AG158        | 181               |
| COURT YARD BY MARRIOTT LLC                               | 2481 CARMICHAEL DR   | 1/2 - 1 NW AG156                            | 182               |
| CHICO UNIF SCHOOL DIST/CORP YD                           | 2455 CARMICHAEL DR   | 1/2 - 1 NW AK160                            | 182               |
| CHICO ENTERPRISE-RECORD                                  | 400 E PARK AVE   | 1/2 - 1 NW AL165                            | 189               |
| WEST VALLEY CONSTRUCTION                                 | 11276 MIDWAY   | 1/2 - 1 WNW AM169                           | 194               |
| SFPP LP (CHICO TERMINAL)                                 | 2570 HEGAN LANE  | 1 - 2 W AO188                               | 202               |

| Lower Elevation                | Address   | Dist / Dir | Map ID          | Pag |
|--------------------------------|---|------------|-----------------|-----|
| TRACTOR SUPPLY CO STORE #793   | 2475 WHITMAN AVE  | 1-2 N      | V AL212         | 231 |
| NORTH VALLEY DISPOSAL SER INC  | 2605 FAIR ST  | 1-2 W      | <b>NW AP213</b> | 232 |
| 1X NORTH VALLEY DISPOSAL       | 2605 FAIR STREET  | 1-2 W      | <b>NW AP215</b> | 233 |
| INTERSTATE BRANDS CORPORATION  | 385 E PARK AVE  | 1-2 N      | V AR220         | 240 |
| M J B WELDING SUPPLY           | 357 E PARK AVE  | 1-2 N      | V AR229         | 250 |
| NORTHLAND TRANSPORTATION       | 2549 SCOTT  |            | WW AS231        | 251 |
| CHICO COLLISION CTR INC        | 275 E PARK AVE  | 1-2 NI     | V AT235         | 257 |
| TAKE OUT COMPANY               | 2644 HEGAN LN   | 1-2 W      | AU243           | 268 |
| DUCKBACK PRODUCTS              | 2644 HEGAN LN   | 1-2 W      | AU244           | 269 |
| DONALD E. MARCH                | 772 CESSNA AVE  | 1-2 W      | AV247           | 276 |
| CHICO AUTO & TRUCK RECYCLING   | 2535 FAIR ST  | 1-2 W      | VW 248          | 277 |
| TOWER MART # 159               | 110 E PARK AVE  | 1-2 W      | W AW249         | 278 |
| PIRET TIRE CENTER              | 99 EAST PARK AVE  | 1-2 W      | <b>NW AW254</b> | 283 |
| THE CALIFORNIA WATER SERVICE C | 2222 WHITMAN AVE  | 1-2 N      | V AZ264         | 293 |
| EARTHGRAINS CO OF SACRAMENTO   | 311 OTTERSON STE 40   | 1-2 W      | BB267           | 295 |
| CHEMCRAFT                      | 311 OTTERSON DR. SUITE  | 1-2 W      | BB271           | 299 |
| ATC/VANCOM INC.                | 326 HUSS DRIVE  | 1-2 W      | BC275           | 309 |
| MIKE CONOVER                   | 2470 VALINE CT  | 1-2 W      | <b>W BE278</b>  | 312 |
| UPS                            | 401 OTTERSON DR.  | 1-2 W      | BF280           | 314 |
| UNITED PARCEL SERVICE, INC     | 401 OTTERSON DRIVE  | 1-2 W      | BF284           | 315 |
| 3M CHICO                       | 402 OTTERSON DR   | 1-2 W      |                 | 319 |
| JOHNS RADIATOR SERVICE         | 2449 VALINE LN  | 1-2 W      | W BE290         | 322 |
| WIZARD GRAPHICS, INC           | 411 OTTERSON DR #20   | 1-2 W      | BF292           | 324 |
| CASCADE ORTHOPEDIC SUPPLY INC  | 415 OTTERSON DR STE 70  | 1-2 W      | BF294           | 326 |
| VALINE CARBURETION             | 127 MYERS ST  | 1-2 W      | <b>NW BG295</b> | 329 |
| VALINE CARBURETION AND SERVICE | 127 MYERS ST<br>127 MEYERS ST<br>2357 FAIR ST<br>2357 FAIR STREET | 1-2 W      | <b>NW BG296</b> | 329 |
| FOOTE PHOTO CO                 | 2357 FAIR ST  | 1-2 W      | <b>NW BH298</b> | 331 |
| 3RD DISTRICT AG ASSOCIATION    | 2357 FAIR STREET  | 1-2 W      | <b>VW BH301</b> | 333 |
| FOCUS PHOTOGRAPHY              | 2357 FAIR ST  | 1-2 W      | VW BH302        | 333 |
| BUNGE ELECTRIC                 | 132 E MEYERS STREET   |            | VW BG306        | 337 |
| SEMPER TRUCKING                | 31 WREX CT  |            | NW BJ308        | 338 |
| WREX PRODUCTS                  | 25 WREX CT  |            | NW BJ311        | 341 |
| COSTCO WHOLESALE #136          | 2100 WHITMAN AVENUE   | 1-2 N      |                 | 346 |
| HOMEBASE #38                   | 2101 WHITMAN AVE  | 1-2 N      |                 | 347 |
| GUILLON INDUSTRIAL PROPERTY IN | 444 OTTERSON DR   | 1-2 W      | 321             | 351 |

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

A review of the AIRS list, as provided by EDR, and dated 12/31/2005 has revealed that there are 18 AIRS sites within approximately 1.5 miles of the target property.

| Equal/Higher Elevation   | Address   | Dist / Dir  | Map ID                     | Page                  |
|--|---|---|----------------------------|-----------------------|
| CHEVRON/FLYERS #50   | 2501 NOTRE DAME   | 1/2 - 1 N   | 72                         | 84                    |
| VACARO SEED/CALIFORNIA INC.<br>LOWES COMPANIES, INC.                     | 446 SOUTHGATE COURT<br>2350 FOREST AVENUE                           | 1/2 - 1 SE<br>1/2 - 1 NNW                         | Z101<br>AH140              | 114<br>164            |
| CHICO FIRE STATION #4 MATHEWS READYMIX LLC                               | 2405 NOTREDAME BLVD.<br>1619 SKYWAY                                 | 1/2 - 1 N<br>1/2 - 1 ENE                          | AE143<br>AN171             | 167<br><b>195</b>     |
| Lower Elevation  | Address   | Dist / Dir  | Map ID                     | Page                  |
| Lower Elevation  | Address   | Dist/ Dil   | Wap ID                     | rage                  |
| WOOD-PLY FOREST PRODUCTS<br>HOME DEPOT USA INC HD 6609<br>UNITED RENTALS | 3711 MORROW LANE<br><b>2580 NOTRE DAME BLVD</b><br>2855 FAIR STREET | 1/4 - 1/2 N<br><b>1/4 - 1/2 NNW</b><br>1/2 - 1 NW | E17<br><b>/ F26</b><br>J41 | 21<br><b>36</b><br>59 |

| Lower Elevation   | Address                                   | Dist / D           | )ir     | Map ID         | Page       |
|---|---|--------------------|---------|----------------|------------|
| SMUCKER'S QUALITY BEVERAGES                                 | 37 SPEEDWAY AVE                           | 1/2 - 1            | W       | 066            | 79         |
| VALLEY WIDE CHEMICAL CO., INC.<br>MIDVALLEY TRACTOR COMPANY | 11128 MIDWAY<br>489 COUNTRY DRIVE         | 1/2 - 1<br>1/2 - 1 | W<br>NW | T78<br>AB110   | 93<br>120  |
| KINDER MORGAN/SFPP  | 2570 HEGAN LANE                           | 1 - 2<br>1 - 2     | W       | AO176<br>AO188 | 199<br>202 |
| SFPP LP (CHICO TERMINAL) DUCKBACK PRODUCTS, INC.            | <b>2570 HEGAN LANE</b><br>2644 HEGAN LANE | 1 - 2              | W       | AU241          | 267        |
| QWEST CHICO TI<br>LARSON HULLER & DRYER                     | 402 OTTERSON DRIVE<br>1035 BRUCE LANE     | 1 - 2<br>1 - 2     | W<br>SW | BF287<br>BI305 | 318<br>335 |
| WREX PRODUCTS INCORPORATED                                  | 25 WREX CT.                               | 1 - 2              |         | / BJ309        | 339        |
| WESTGATE HARDWOODS, INC                                     | 226 MEYERS ST                             | 1 - 2              | MIMA    | / BJ319        | 350        |

HAULERS: A listing of registered waste tire haulers.

A review of the HAULERS list, as provided by EDR, and dated 02/12/2008 has revealed that there are 2 HAULERS sites within approximately 1.5 miles of the target property.

| Equal/Higher Elevation         | Address                 | Dist / Dir  | Map ID  | Page |
|--------------------------------|-------------------------|-------------|---------|------|
| TREADMASTERS, INC. DBA QUALITY | 2560 DOMINIC DRIVE, SUI | 1/2 - 1 NNE | 152     | 69   |
| Lower Elevation                | Address                 | Dist / Dir  | Map ID  | Page |
| USA WASTE OF CALIFORNIA, INC.  | 2569 SCOTT AVENUE       | 1 - 2 WNV   | V AP228 | 250  |

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

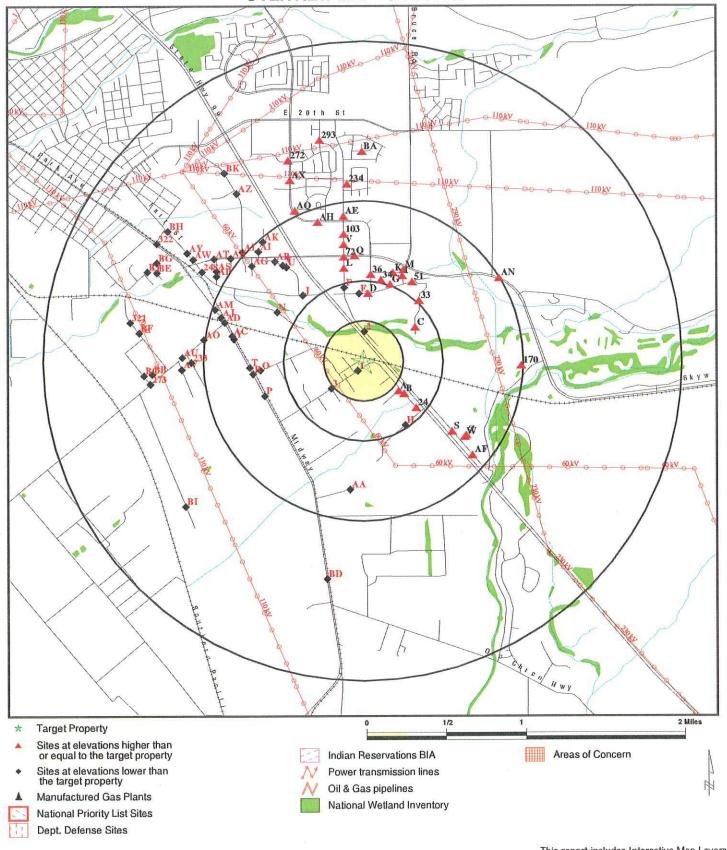
A review of the ENVIROSTOR list, as provided by EDR, and dated 02/26/2008 has revealed that there is 1 ENVIROSTOR site within approximately 1.5 miles of the target property.

| Lower Elevation   | Address               | Dist / Dir  | Map ID  | Page |
|---|-----------------------|-------------|---------|------|
| VALLEY WIDE CHEMICAL INC Facility Status: Refer: Other Agency | MIDWAY STREET / HEGAN | 1/2 - 1 WNV | V AD123 | 133  |

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

| Site Name  | Database(s)   |      |
|--|---|------|
| ANDREW BERTAGNA AAMCO TRANSMISSIONS CUSC UNIVERSITY FARM BRUCE RD AT PICHOLINE WAY ON SKYWAY @ ROCKY BUFTS TRAFFIC STOP @ EATON RD / HWY MURPHY COMMONS MURPHY COMMONS OLD FARM ESTATES BRUCE ROAD CORPERATION YARD CHICO-OTTERSON CHICO IMPORTS PEGGY'S LAWN CARE ROBBIE CATTANACH TRUCKING INC WEISS-MCNAIR LLC ACCENTS AUTO BODY LONE STAR TRUCKING INC SKYPARK AUTO NORCAL WASTE SYSTEMS OF BUTTE COUN TOMS SIERRA CO INC CRYSTAL CREAM & BUTTER COMPANY PAUL L BRYNE MEMORIAL FARM #136 3100 WHITMAN AVE VICTOR INDUSTRIES 20TH STREET PCE HWY 70 SPILL, FALLING ROCK MARKET HWY 99 SPILL, CHICO 04 ADAMS, ET AL (APN 002-180-086) BARTIG, ET AL (APN 002-180-084) HAUSSELT PROPERTY EDMOND JOHNSON PROPERTY (APN 011-0 HUMBOLDT ROAD PRIVATE PROPERTIES O FUEL SPILL SH 32 AND HUMBOLDT RD. GUTIERREZ TORIBIO BRUCE RD GAS MAIN TUSCAN RIDGE GOLF CLUB HUMBOLDT RD PRIV PROP OP UNIT | Database(s)  CA FID UST, S SWEEPS UST SWEEPS UST CDL CDL CDL LUST LUST VCP, ENVIROS HIST UST AST HAZNET HAZNET HAZNET HAZNET HAZNET HAZNET HAZNET HAZNET SIC SLIC SLIC SLIC SLIC SLIC SLIC SLIC | STOR |
| HUMBOLDT RD BURN DUMP OP UNIT<br>JUICE PROCESSING WW PONDS   | CA WDS<br>CA WDS  |      |

#### **OVERVIEW MAP - 02206466.1r**



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

SITE NAME: Southgate Ave. Interchange ADDRESS: SR99/Southgate Ave.

LAT/LONG:

Chico CA 95928 39.7054 / 121.7930 CLIENT: Blackburn Consulting

CONTACT: Dave Buck INQUIRY #: 02206466.1r

DATE: April 29, 2008 9:33 am

#### Listing of EDR Searched Databases:

- NPL (National Priorities List)
- NPL Proposed
- NPL Delisted
- NPL LIENS (Federal Superfund liens)
- LIENS 2 (Comprehensive Environmental Response, Compensation, And Liability Act Lien Information)
- CERLCIS (Comprehensive Environmental Response, Compensation, And Liability Information System)
- CERC-NFRAP (CERCLIS No Further Remedial Action Planned )
- Notify 65
- Toxic Pits
- CORTESE (Cal EPA Cortese List)
- US ENG CONTROLS (US engineering Controls)
- US INST CONSTROLS (US Institutional Controls)
- CORRACTS (Corrective Action Report)
- AST (Above Ground Petroleum Storage Tank Facilities)
- LUST (Leaking Underground Storage Tank Information System)
- UST (Underground Storage Tank Database)
- HIST UST (Historical UST Registered Database)
- RAATS (RCRA Administrative Tracking System)
- RCRA-CESQG (Resource Conservation and Recovery Act Information)
- RCRA-SQG (Resource Conservation And Recovery Information System, Small Quantity Generator)
- RCRA-LQG (Resource Conservation And Recovery Information System, Large Quantity Generator)
- RCRA-TSDF (Resource Conservation And Recovery Information System, Large Quantity Generator)
- RCRA-NonGen (Resource Conservation And Recovery Information System, Non-Generator)
- HMIRS (Hazardous Materials Information Reporting System)
- SWF/LF (Solid Waste Information System)
- WMUDS/SWAT (Waste Management Unit Database)
- CHMIRS (California Hazardous Materials Information Reporting System)
- DRYCLEANERS (Drycleaner Facilities)
- PADS (PCB Activity Database System)
- ERNS (Emergency Response Notification System)
- FINDS (Facility Index System)
- TRIS (Toxic Chemical Release Inventory System)

- TSCA (Toxic Substances Control Act)
- MLTS (Material Licensing Tracking System)
- HIST CAL SITES (Former ASPIS database)
- ENVIROSTOR (Site Mitigation and Brownfields Reuse Program Database)
- RESPONSE (State Response Sites)
- CA BOND EXP PLAN (California Bond Expenditure Plan)
- ROD (Records Of Decision)
- CONSENT (Superfund Consent Decrees)
- CA WDS (Waste Discharge System)
- SLIC (CA Statewide SLIC cases)
- HAZNET (Cal EPA's Facility and Manifest Data)
- MINES (Mines Master Index File)
- DEBRIS REGION 9 (Torres Martinez Reservation Illegal Dump Site Locations)
- INDIAN UST (Underground Storage Tanks on Indian Lands)
- INDIAN LUST (Leaking Underground Fuel Tanks on Indian Land)
- INDIAN RESERV (Indian Reservations)
- INDIAN ODI (Open Dumps on Indian Lands)
- UMTRA (Uranium Mill Tailing Sites)
- FUDS (Formerly Used Defense Sites)
- DOD (Department of Defense Sites)
- SSTS (Section 7 Tracking Systems)
- FTTS (FIFRA/TSCA Tracking System)
- HIST FTTS (FIFRA/TSCA Tracking System Administrative Case Listing)
- DEED (List of Deed Restrictions)
- SCH (School Property Evaluation Form)
- US BROWNFIELDS (Brownfield Sites)
- VCP (Voluntary Cleanup Program)
- ODI (Open Dump Inventory)
- ICIS (Integrated Compliance Information System)
- LUCIS (Land Use Control Information System)
- RADINFO (Radiation Information Database)
- DOT OPS (Incident and Accident Data)
- US CDL (Clandestine Drug Labs)
- CDL (Clandestine Drug Labs-California)
- LIENS (Environmental Liens Listing)
- WIP (Well Investigation Program Case List)
- EMI (Emissions Inventory Data)
- CA FID UST (California Water Resource Control Board Facility Inventory Database)

- SWEEPS (Statewide Environmental Evaluation and Planning System)
- SWRCY (Recycling Facilities in California)
- HAULERS (Registered Waste Tire Haulers List)
- AIRS (Air emissions database)
- EDR Manufactured Gas Plants

APPENDIX



Reconnaissance Photos



Photo 1 - 2549 Scott Ave., Pacific Pride fueling facility.



Photo 2 – 11239 Midway, PG & E Chico Service Center natural gas dispensing facility.



Photo 3 – 11226 Midway, Jessie Long/Shell fueling distributing facility.

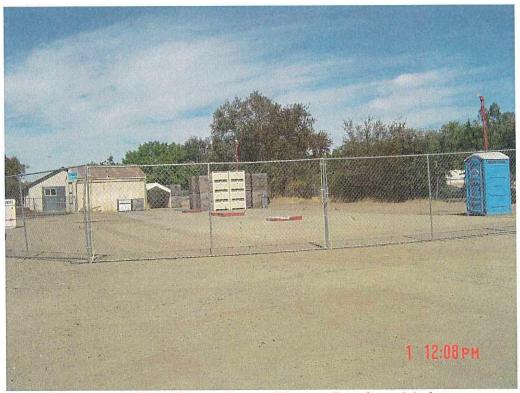


Photo 4 – 11204 Midway, Former Western Petroleum Marketers. Possible abandoned fuel islands in foreground.



Photo 5 – 2570 Hegan Lane, Kinder Morgan/ SFPP Chico Terminal.

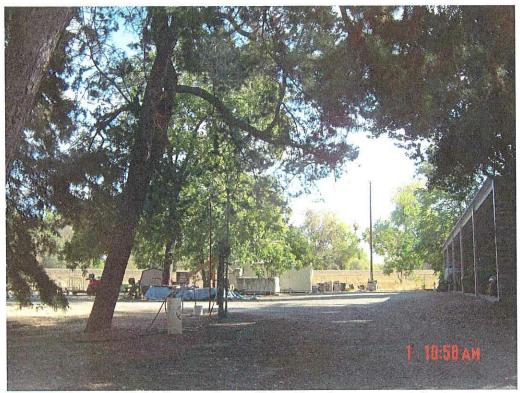


Photo 6 – 2741 Cramer Lane, Chico Tree Improvement Center. AST in background.

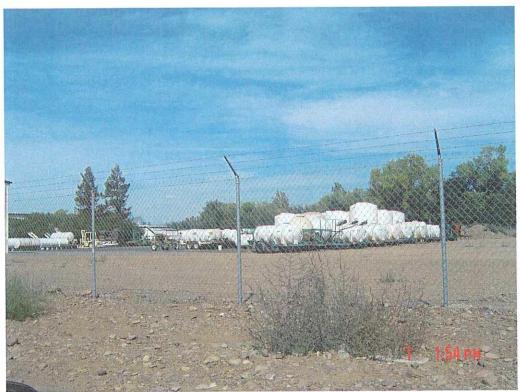


Photo 7 - 3155 Southgate Lane, Helena Chemical spray rig storage.

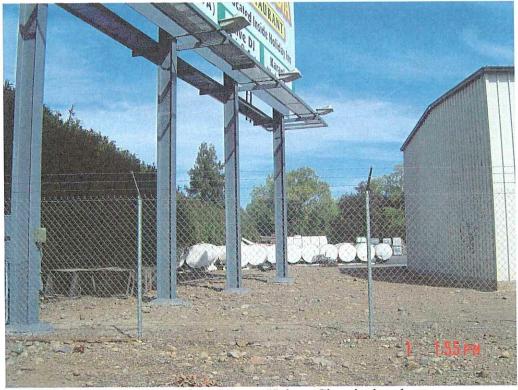


Photo 8 - 3155 Southgate Lane, Helena Chemical tank storage.



Photo 9 – 2605 Fair Street, North Valley Disposal. Large AST on left.



Photo 10 – 2855 Fair Street, United Rentals. AST behind trucks.



Photo 11 – 11254 Midway, North Valley Iron Works.

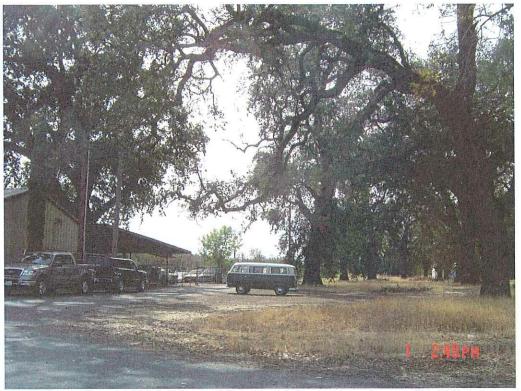


Photo 12 – 11025 Midway, Motor vehicle storage at rear of building.



Photo 13 – 1699 Skyway, Butte Creek Rock Co.

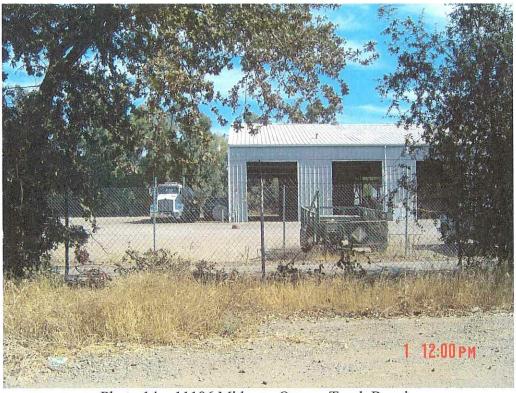


Photo 14 – 11196 Midway, Omega Truck Repair. AST at left of building.

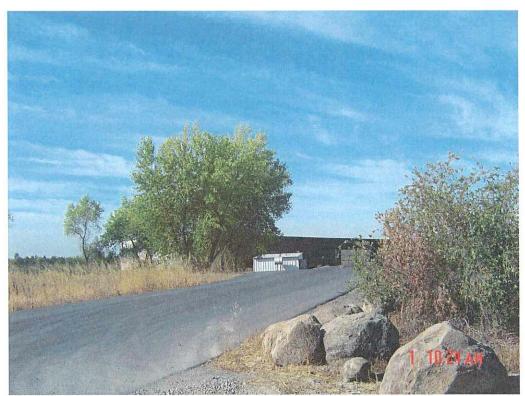


Photo 15 – 1856 Skyway, Sunset Molding. Small AST next to shed.



Photo 16 – 322 Entler Avenue. Small AST and drums.



Photo 17 – 629 Entler Avenue, Equipment storage on undeveloped property.



Photo 18 – 629 Entler Avenue, Soil stockpiles on undeveloped property.

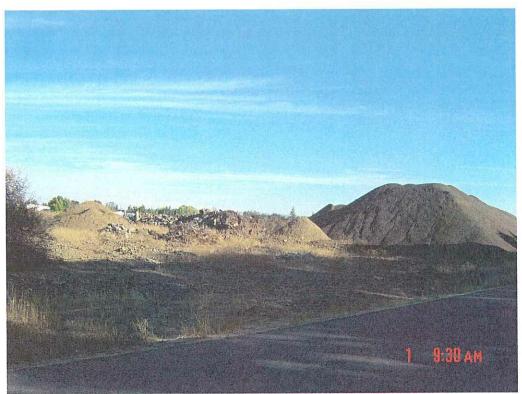


Photo 19 – Concrete and asphalt recycling operation on Southgate Avenue, showing stockpiles of material (processed and unprocessed).



Photo 20 – Remnants of dredge tailings near Southgate Avenue.

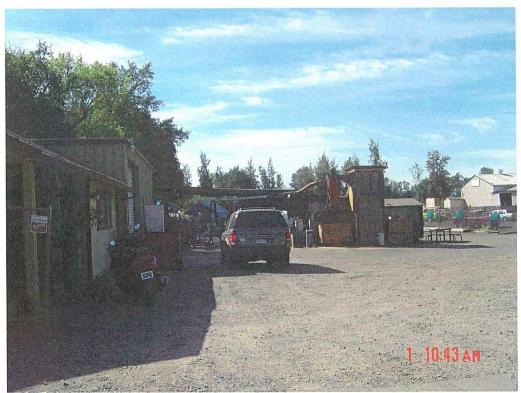


Photo 21 – 3711 Morrow Lane, Wood products facility.



Photo 22 – 48 Comanche Court, Construction yard / Storage area.

# **PRELIMINARY**

# **GEOTECHNICAL MEMORANDUM**

# SOUTHGATE AVENUE INTERCHANGE PROJECT CITY OF CHICO, CALIFORNIA

# Prepared by:

BLACKBURN CONSULTING 11521 Blocker Drive, Suite 110 Auburn CA, 95603 (530) 887-1494

April 2009

For:

Mark Thomas & Company, Inc. Sacramento, California

#### Auburn Office:

11521 Blocker Drive, Suite 110 - Auburn, CA 95603 (530) 887-1494 • Fax (530) 887-1495



Modesto Office: (209) 522-6273 West Sacramento Office: (916) 375-8706

Geotechnical - Construction Services - Forensics

File No. 961.1 April 10, 2009

Mr. Matt Brogan Mark Thomas & Company, Inc. 7300 Folsom Boulevard, Suite 203 Sacramento, CA 95826

Subject: PRELIMINARY GEOTECHNICAL MEMORANDUM

Southgate Avenue Interchange Project

City of Chico, California

Dear Mr. Brogan:

Blackburn Consulting (BCI) prepared this Preliminary Geotechnical Memorandum for the Southgate Avenue Interchange Project in Chico, California. BCI prepared this report in accordance with the June 11, 2008 Agreement between BCI and Mark Thomas & Company, Inc.

Thank you for the opportunity to be part of your design team. Please call if you have questions or require additional information.

Sincerely;

**BLACKBURN CONSULTING** 

Rick Sowers, P.E., C.E.G.

Sr. Project Manager

Distribution: 4 (client)

Thomas Blackburn, P.E., G.E.

Principal

# PRELIMINARY GEOTECHNICAL MEMORANDUM

# SOUTHGATE AVENUE INTERCHANGE PROJECT

City of Chico, California

# TABLE OF CONTENTS

| INTRODUCTION                           | 1 |
|--|---|
| Purpose                                | 1 |
| Scope of Services                      | 1 |
| PROJECT LOCATION                       | 1 |
| PROJECT DESCRIPTION                    | 1 |
| SITE GEOLOGY AND SUBSURFACE CONDITIONS | 2 |
| Geologic Setting                       | 2 |
| Subsurface Conditions                  | 3 |
| Ground Water                           | 4 |
| SCOUR EVALUATION                       | 4 |
| CORROSION EVALUATION                   | 4 |
| PRELIMINARY SEISMIC STUDY              | 5 |
| Ground Motion Study                    | 5 |
| Liquefaction Evaluation                | 5 |
| Fault Rupture Study                    | 5 |
| Seismic Settlement                     | 6 |
| Seismic Slope Instability              | 6 |
| AS-BUILT FOUNDATION DATA               | 6 |
| SR 99 @ Hamlin Slough                  | 6 |
| SR 99 @ Nance Canyon                   | 6 |
| SR 99 @ Scrub Creek                    | 6 |
| SR 99 @ Butte Creek                    | 7 |
| SR 99 @ Comanche Creek                 | 7 |
| Skyway @ Little Chico Creek Diversion  | 7 |
| Skyway @ Butte Creek                   | 7 |

# PRELIMINARY GEOTECHNICAL MEMORANDUM

# SOUTHGATE AVENUE INTERCHANGE PROJECT

City of Chico, California

# TABLE OF CONTENTS (Continued)

| PRELIMINA   | ARY GEOTECHNICAL RECOMMENDATIONS   | 7  |
|-------------|--|----|
| Discussion  | of Foundation Alternatives   | 7  |
| Preliminar  | y Structure Foundations  | 8  |
| Roadway S   | Sections   | 9  |
| Retaining ' | Walls  | 9  |
| ADDITION    | AL FIELD WORK AND LABORATORY TESTING   | 9  |
| LIMITATIO   | ONS  | 10 |
| REFERENC    | CES  | 11 |
|             |  |    |
| _           | Vicinity Map Conceptual Project Improvements Map Geologic Map Regional Fault Map ARS Curve |    |
| Appendix A: | : Log of Test Boring Sheets  |    |
| SR 99 @.    | Hamlin Slough  |    |

SR 99 @ Nance Canyon

SR 99 @ Scrub Creek

SR 99 @ Butte Creek

SR 99 @ Edgar Slough

Skyway @ Little Chico Diversion

Skyway @ Butte Creek

**Appendix B: Site Photos** 

#### INTRODUCTION

#### **Purpose**

Blackburn Consulting (BCI) prepared this Preliminary Geotechnical Memorandum for the proposed Southgate Avenue Interchange Project in Chico, California. This report is based on conceptual project improvements developed by Mark Thomas & Company (MTCo) and is intended for the Advanced Planning Study and Type Selection.

The ultimate project includes a new interchange at Southgate Avenue/SR 99; several miles of new connector, extension and frontage roads; five bridge (or culvert) structures; and possible retaining walls. BCI will prepare the necessary Foundation Reports, Geotechnical Design Report and Materials Reports during future project design phases.

## Scope of Services

To prepare this report, BCI:

- Discussed the project with Matt Brogan and others from MTCo, design engineers.
- Attended a project kickoff meeting on March 18, 2008 with representatives from the City of Chico, Butte County, BCAG, Caltrans, and the MTCo design team.
- Reviewed "As-Built" plans for nearby bridges along the SR99 corridor and Skyway.
- Reviewed published maps and literature related to site geologic and seismic conditions.
- Conducted a preliminary geologic site reconnaissance within the project limits.

#### PROJECT LOCATION

The project study area is approximately centered on the intersection of SR 99 and Southgate Avenue on the south side of the City of Chico, California. The study area is approximately bordered by Fair Street on the north, Midway on the west, Marybill Ranch Road on the south, and Skyway on the east. We show the project location on Figure 1.

## PROJECT DESCRIPTION

The project will upgrade SR 99 to freeway status from Skyway to Estates Drive, a distance of approximately two miles. The existing at-grade intersection at Southgate Avenue and SR 99 will be upgraded to a new interchange. Traffic circulation improvements are proposed on both sides of SR 99, including extensions of Southgate Avenue west to Midway and east to Skyway; extension of Player Lane (western frontage road) south to Estates Drive; and extension of Entler Avenue north to Fair Street. The road extensions will vary from two to six lanes and involve both upgraded and new alignment sections.

MTCo has identified six possible new structures for the project, listed below.

- 1. Southgate Avenue Interchange at SR 99
- 2. Southgate Avenue bridge at Little Chico Creek Diversion
- 3. Southgate Avenue bridge at Butte Creek
- 4. Player Lane bridge at Butte Creek
- 5. Entler Avenue bridge at Camanche Creek
- 6. Entler Avenue bridge (or culvert) at Camanche Creek tributary

The conceptual project improvements are based on a MTCo preliminary drawing, attached as Figure 2. We include selected site photos of the project area in Appendix B.

Topography throughout the project area rises gently from the west to east, from a low of about elevation 200 ft, near Midway, to a high of about elevation 275 ft, near Skyway at Butte Creek. We expect relatively low cut/fill (approximately 10 ft or less) for project earthwork along the new road segments.

#### SITE GEOLOGY AND SUBSURFACE CONDITIONS

## **Geologic Setting**

The site is located in the northern portion of the Sacramento Valley that is bounded by the Sierra Nevada on the east and the Coast Ranges on the west. The Sacramento Valley is a structural trough that represents the northern third of the Great Valley Geomorphic Province.

The relatively flat surface of the Sacramento Valley is underlain by alluvial, lacustrine, and marine sedimentary deposits that have accumulated as the structural trough formed and the adjacent mountain ranges were elevated. The thickness of the sediments varies from a thin veneer along the valley margins to thousands of feet at the axis of the trough. The main axis of the trough is oriented north-south along the valley's main drainage axis, approximately 23 miles west of the site. This project is near the east edge of the valley sediments, underlain by relatively thin alluvium over volcanic rock.

We evaluated the geology of the area through available geologic literature and our site review. Based on Saucedo and Wagner (1992) and Helley and Harwood (1985), sediments of the Pleistocene-age Modesto Formation immediately underlie most of the project area. These sediments typically consist of alluvial terraces and fan deposits. Dredge tailings, remnant from historic mining in the area, are present in the area south of Southgate Avenue and along the Butte Creek drainage east of the project area.

The published mapping shows Pliocene-age volcanics of the Tuscan Formation at the east side of the project area. These materials are comprised of interbedded volcanic mudflows and volcanic conglomerate, volcanic sandstone/siltstone and pumiceous tuff.

We show a site Geologic Map, based on Helley and Harwood (1985), on Figure 3.

#### **Subsurface Conditions**

We observed sediments consistent with the Modesto Formation within most of the project area. These soils consist of medium dense gravelly clayey sand and stiff to hard sandy clay. Dredge tailings are present in areas south, west and east of the existing Southgate Avenue/SR 99 intersection, including the proposed Southgate alignment east of SR 99 to the Little Chico Creek Diversion. The 1978 USGS topographic map shows the tailings to extend about 1500 ft west along Southgate Avenue, 3000 ft south along SR 99 to near Butte Creek, and several hundred feet east of SR 99 (see Figure 1).

Engeo, Inc. completed a geotechnical report, dated February 2008, for a proposed commercial/residential development at the southwest corner of Southgate Avenue and SR 99. Their study included 12 test pits to a maximum depth of 20 ft below ground surface. The data show dredge tailings to depths of approximately 14 to 18.5 ft below ground surface, underlain by stiff to hard silty clay.

North of the proposed Southgate interchange, Entler Avenue will extend northwest and cross Comanche Creek (formerly "Edgar Slough") immediately downstream from the SR 99 parallel bridges. The Entler Avenue extension will continue northwest and cross a man-made drainage that flows southwest into Comanche Creek. SR 99 crosses the drainage ditch with a triple box culvert, about 24 ft wide and invert about 10 ft below the highway grade. The soils in the area of the Comanche Creek and drainage ditch are mostly granular materials consistent with Modesto Formation sediments.

South of the proposed Southgate interchange, Player Lane will cross Butte Creek immediately downstream from the SR 99 parallel bridges. The creek banks in this area are comprised of unconsolidated sand and gravel with cobbles. We observed tuffaceous siltstone exposed at a few locations within the Butte Creek channel.

East of SR99, the proposed Southgate Avenue extension follows an old railroad grade and crosses Little Chico Creek Diversion and Butte Creek. Remnants of old railroad bridges at both crossings include concrete abutments and piers. We noted mostly coarse alluvium in the area of the Little Chico Creek Diversion, with siltstone (likely Tuscan Formation) exposed along portions of the channel.

At Butte Creek, the old railroad bridge crosses the creek about 50 ft upstream from a concrete diversion dam. Gravelly sediments are deposited behind the dam and volcanic rock is exposed within the channel downstream of the dam. The dam diverts water from Butte Creek into a pipe that flows southwest to a concrete lined ditch, which then flows south (parallel to Butte Creek).

Along the east bank of Butte Creek (near the old east abutment), hard, volcanic mudflow is exposed as isolated surface outcrops. Between Butte Creek and Skyway, the proposed Southgate Avenue alignment crosses relatively flat ground with outcrops of volcanic mudflow (bedrock) and scattered volcanic boulders.

We did not observe signs of significant geologic hazards such as landsliding, settlement, very soft soils or severe erosion within the project area, nor do the published maps show such hazards.

#### **Ground Water**

We reviewed groundwater level data made available by the California Department of Water Resources (Historical Data Map Interface website). Well data within the western portion of the project area indicate a regional groundwater table at about elevation 120 ft below mean sea level. This places the regional (or static) water table at about 80 ft below the ground surface. We expect, however, that perched groundwater can be encountered at relatively shallow depths, particularly near the drainages and during or shortly following the winter months.

The County reports that artesian groundwater surfaces during extended periods of rainfall in the cul-de-sac areas south of Entler Avenue (northwest of the Southgate/SR 99 intersection). Pumps have been installed at the rear of the lots to prevent flooding of the yards; these pumps discharge the water via ditches to a discharge basin south of Southgate Avenue (near the existing community ballfield), although the water reportedly dissipates into gravel layers before reaching the basin.

The Engeo report describes groundwater in several of the test pit excavations, dug in January 2008, mostly within the loose dredge tailings. This water is likely "perched" over the underlying clay soils.

#### SCOUR EVALUATION

Two major drainages are mapped in the study area. Comanche Creek (formerly Edgar Slough) crosses the northern portion of the study area, and Butte Creek crosses the east and southeast portions of the area. We observed evidence of minor scour along the Butte Creek channel and little to none along the Comanche Creek channel. New structure foundations will need to consider scour along Butte Creek during project design, based on the structure hydraulics report.

#### **CORROSION EVALUATION**

Caltrans Corrosion Guidelines (2003) considers soils corrosive to foundation elements if one or more of the following conditions exist:

- Chloride concentration is 500 parts per million (ppm) or greater,
- Sulfate concentration is 2000 ppm or greater,
- pH is 5.5 or less.

Based on the generally granular nature of the site soils, we expect low corrosivity conditions. We plan to provide corrosion testing and analyses during the design level foundation investigations.

# PRELIMINARY SEISMIC STUDY

## **Ground Motion Study**

Our review of published geologic mapping and preliminary site review did not reveal the presence of Late Quaternary (displacement within the last 700,000 years) or younger faults within or adjacent to the project area. The Chico Monocline fault is shown on California Geological Survey (CGS) database to be located about 3 miles east of the project area, however, is considered older than late Quaternary and is therefore not included on current Caltrans seismic hazard maps. Figure 4 shows the significant seismic sources (per Caltrans) in the project vicinity.

Based on Caltrans' Seismic Hazard Map (1996), the closest recognized Late Quaternary or younger faults are the Big Bend Fault (BBD), located approximately 12 miles east of the site, and the Cleveland Hill Fault (CHL), located approximately 15 miles southeast of the site. The BBD fault has the greatest potential to affect the site, with an estimated maximum moment Magnitude of 6.25. An event of this magnitude, at a distance of 12 miles, would produce a maximum horizontal Peak Bedrock Acceleration (PBA) of about 0.17g (Mualchin, 1996).

Based on our review, we preliminarily classify the site soil profiles as Type D (stiff soil). Type B (moderately hard rock) or Type C (very dense soil and soft rock) may apply to structures at the east side of the project area where shallow volcanic rock may be present (e.g., Southgate crossing at Butte Creek).

For preliminary design, use the 0.2g peak horizontal rock acceleration curve (0.28g peak ground acceleration) from Figure B.7 (Soil Profile Type D for a Magnitude of  $6.5\pm0.25$ ) of the Caltrans Seismic Design Criteria (2006, Version 1.4). We present a copy of this curve as Figure 5.

The proposed structure is not located within 10 miles of the controlling fault; therefore, no adjustment to the response spectrum is required for fault proximity.

#### **Liquefaction Evaluation**

Liquefaction can occur when loose to medium dense, granular, saturated soils (generally within 50 feet of the surface) are subjected to ground shaking. Except for the area of dredge tailings, we expect the project area is underlain by dense/hard sediments and volcanic rock, which we consider to be non-liquefiable or to have a very low potential for liquefaction. The dredge tailings might be liquefiable where saturated; liquefaction of these soils can be mitigated by project grading and extending the structure foundations below the depth of these materials.

#### **Fault Rupture Study**

The site does not lie within or adjacent to an Alquist-Priolo Earthquake Fault Zone for fault rupture hazard and no known active faults cross the site. We therefore consider the potential for fault rupture and ground displacement to adversely affect the project as very low to non-existent.

#### Seismic Settlement

During a seismic event, ground shaking can cause densification of granular soil above the water table that can result in settlement of the ground surface. Based on our review, with the possible exception of the dredge tailings and weak/loose soils along the channel banks, we consider the probability of detrimental seismic settlement within the project area to be very low.

## Seismic Slope Instability

We consider the potential for seismic slope instability in the form of landslides and mudslides at this site to be very low to nonexistent. Similarly, we consider the potential for seismically induced slides on engineered fill slopes constructed at 1.5:1(horizontal: vertical) to be very low.

#### AS-BUILT FOUNDATION DATA

We reviewed the 1991 Caltrans As-Built plans for SR 99 construction (west widening) from Pentz Road to near Skyway, a distance of about 6.2 miles, including five bridges (at Hamlin Slough, Nance Canyon, Scrub Creek, Butte Creek and Edgar Slough). We also reviewed 1977 Butte County As-Built plans for the Skyway bridges at Little Chico Creek Diversion and at Butte Creek. We summarize the foundation data below.

## SR 99 @ Hamlin Slough

This bridge is a 120 ft long, 4-span, flat-slab concrete structure with concrete diaphragm abutments and 5-column concrete bents. The abutments are supported on strip footings established in engineered fill. The bent columns are supported on isolated footings established 6-8 ft below channel bottom and within materials identified as "tuffaceous sandstone".

## SR 99 @ Nance Canyon

This bridge is an 89 ft long, 3-span, flat-slab concrete structure with concrete diaphragm abutments and 7-column concrete bents. The abutments are supported on strip footings established in engineered fill. The bent columns are supported on isolated footings established about 6 ft below channel bottom and within materials identified as "stiff to very stiff sandy clay with boulders" and "slightly compact sand with boulders". "Tuffaceous sandstone" is logged about 20 ft below channel bottom.

#### SR 99 @ Scrub Creek

This structure is a double 10'x6' reinforced concrete box culvert, with base established in "tuffaceous sandstone". The plans show the sandstone below the culvert base removed to a depth of about one foot and backfilled with Structure Backfill.

## SR 99 @ Butte Creek

This bridge is a 324 ft long, 5-span, reinforced concrete box girder with concrete diaphragm abutments and solid-wall piers. Foundations at all supports are steel piles (HP10x57) with 70 ton design loads. As-Built plans show the piles driven to an average elevation about 178 ft to 184 ft, which is about 16-22 ft below channel bottom. The Log of Test Borings drawing describes the materials at this level as tuffaceous sandstone.

# SR 99 @ Comanche Creek

This bridge is a 53 ft long, 3-span, flat-slab concrete structure with concrete diaphragm abutments and 4-column concrete bents. The abutments are supported on strip footings established in material identified by the Log of Test Borings drawing as dense sandy gravel, at elev. 206-207 (near channel bottom and about 10 ft below original ground surface). The bent columns are supported on isolated footings established at elev. 200 (about 8 ft below channel bottom) and within similar sandy gravel materials. The plans indicate design footing pressures of 1.7 tsf at the abutments and 3 tsf at the bents.

# Skyway @ Little Chico Creek Diversion

This bridge is a 113 ft long, 4-span, flat-slab concrete structure with concrete diaphragm abutments and 5-column concrete bents. The abutments and bents are supported on concrete piles (Alternative "V" 14-inch diameter steel shells filled with concrete) with 45 ton design loads. The bent columns are pile extensions to the deck. The As-Built plans show the piles driven to about 24 ft below channel bottom, bearing in dense to very dense silty and sandy gravel.

#### Skyway @ Butte Creek

This bridge is a 221 ft long, 3-span, reinforced concrete box girder structure with concrete diaphragm abutments and solid-wall piers. Foundations at the abutments and Pier 2 (north side of channel) are steel piles (HP10x57) with 45 ton design loads. Pier 3 (south side of channel) is supported by a spread footing on volcanic mudflow ("bedrock") with design footing loads of 5 tsf. The Log of Test Borings drawing shows a variable rock line with dense sandy gravel overlying the rock.

#### PRELIMINARY GEOTECHNICAL RECOMMENDATIONS

#### **Discussion of Foundation Alternatives**

<u>Spread Footings:</u> Support is generally available for spread footing foundations established within undisturbed Modesto Formation sediments. These materials are generally present near ground surface throughout most of the project area and appear to underlie the dredge tailings near the SR99/Southgate interchange. At the channel crossings, footings would need to be placed below scour depths and bearing capacity would be limited by the soil conditions and permissible settlement. For these reasons, the use of spread footings may be undesirable for heavily loaded bridge foundations.

Volcanic rock is exposed at the east side of the project, between Butte Creek and Skyway. Spread footing foundations appear feasible at the Southgate Avenue bridge over Butte Creek, especially at the east abutment.

H-Piles: Steel H-piles (e.g., HP10x57, similar to the existing Butte Creek bridge foundations at SR99 and Skyway) are likely feasible with penetration into the anticipated dense soils and/or volcanic rock. Hard rock observed at the east side of Butte Creek near the proposed Southgate Avenue bridge may limit the ability to drive piles to adequate depth for lateral and/or tensile resistance.

<u>Cast-In-Drilled-Hole (CIDH) Piles:</u> CIDH pile foundations or large diameter drilled-shafts appear feasible and can develop high capacity for axial, lateral and uplift loads. Difficult drilling may be encountered in hard, volcanic rock and through soils containing cobbles. Minimum 24-inch diameter excavations would be required if ground water or caving soils are encountered. CIDH pile tip elevations would depend on pile/shaft diameter and defined compressive, tensile and lateral loading requirements.

<u>Driven Concrete Piles and Steel Pipe Piles:</u> These pile types may be acceptable depending on the soil profile; however, as displacement type piles, they may experience very hard driving within dense soils (possibly resulting in damage to the pile). Pre-drilling may be necessary to achieve adequate penetration for stability. These pile types are not appropriate in areas of shallow, volcanic rock (e.g., east project area).

# **Preliminary Structure Foundations**

Based on the above, we consider the following foundations as appropriate for preliminary structure design and type selection:

- 1. <u>Southgate Avenue Interchange at SR 99:</u> Spread footings in undisturbed Modesto Formation materials; alternatively, H-piles driven to about 30 ft below existing ground surface, developing capacities up to 70 tons per pile.
- 2. <u>Southgate Avenue bridge at Little Chico Creek Diversion:</u> H-piles, driven to about 40 ft below existing old railroad grade, developing capacities up to 70 tons per pile.
- 3. <u>Southgate Avenue bridge at Butte Creek:</u> H-piles likely with 70 ton capacity at depths about 30-40 ft at the west abutment. At the east abutment, likely footing foundation in rock. Bent foundations may be either short H-piles (about 20 ft long) or spread footings, depending on the rock line and design scour levels.
- 4. <u>Player Lane bridge at Butte Creek:</u> H-piles, driven to about 30 ft below channel bottom, developing capacities up to 70 tons per pile.
- 5. <u>Entler Avenue bridge at Camanche Creek:</u> Spread footings in undisturbed Modesto Formation materials, similar to the SR99 bridges immediately upstream. Alternately, Hpiles driven about 20-30 ft below channel bottom with design capacities to 70 tons per pile.

6. Entler Avenue culvert (or bridge) at Camanche Creek tributary: A box culvert similar to the SR99 triple box appears reasonable, bearing into undisturbed Modesto Formation soils. For a bridge structure, spread footings appear feasible with preliminary design loads to 2 tsf.

# **Roadway Grading**

We expect that, in general, new cut slopes will be stable at gradients of about 1.5H:1V, or flatter, and new fill slopes at gradients of 2H:1V. We anticipate that settlement of new embankment established on appropriately prepared subgrade will be nominal (on the order of 1-inch), occurring rapidly during fill placement.

We did not observe areas of slope instability, shallow ground water or soft/compressible soils as part of this review, although these issues may require consideration where dredge tailings are present. In the tailings areas, measures such as over-excavation and replacement may be required, depending on fill heights and grading details. Areas of significant fill over tailings will require consideration of possible soft clays ("slickens") within the tailings that may be present as a byproduct of the dredging operations.

# **Retaining Walls**

We expect foundation support for typical Caltrans standard walls (e.g., Type 1), to about 10 ft in height, is generally available on strip or spread footing foundations established in undisturbed, native soils. Soil bearing is likely available for design pressures up to 5 ksf for footings established at least 2 ft into undisturbed bearing material. Support in the tailings area may require subexcavation and replacement of loose gravel, cobbles and "slickens" to provide suitable foundation support.

Lateral forces may be resisted by friction developed between the base of the footing and the underlying undisturbed sediments or engineered fill. For preliminary design, use a coefficient of friction to resist sliding of 0.30. Additional resistance to lateral loads is available from passive pressure; for preliminary design, use an equivalent fluid weight of 300 pcf below a depth of one foot.

#### ADDITIONAL FIELD WORK AND LABORATORY TESTING

Additional subsurface exploration and laboratory testing is required to complete the Foundation Reports for bridge design, Geotechnical Design Report for roadway and wall elements, and Materials Reports for pavement and culvert design. We plan to drill and sample test borings at each new bridge structure to depths of about 60-80 ft, depending on the depth to rock, structure types and loading conditions. For roadway segments and retaining walls, test borings will extend to depths of about 10-30 ft, depending on embankment/wall heights. We will note groundwater encounters and collect bulk and relatively undisturbed soil samples from the borings for laboratory testing.

We plan to conduct the following laboratory tests on selected soil samples retrieved from the test borings.

- Moisture Content/Unit Weight for bearing capacity, lateral capacity and settlement analysis
- Unconfined compressive, direct shear and/or triaxial shear strength tests for bearing capacity and lateral capacity analysis
- Corrosivity (pH, sulfates/chlorides and minimum resistivity) for soil reaction to steel and concrete
- Sieve Analysis and Hydrometer tests for scour analysis (by others)
- R-value tests for pavement design

#### LIMITATIONS

This Preliminary Geotechnical Report is based on available information provided to BCI and is not intended for final design. Do not use or rely on this report for different locations or improvements without the written consent of BCI.

Additional study, including subsurface exploration and laboratory testing is required for final design. BCI performed these services in accordance with generally accepted geotechnical engineering principles and practices currently used in this area. We do not warranty our services.

#### REFERENCES

- ▶ Blackburn Consulting, November 25, 2008, *Draft Initial Site Assessment, State Route 99/Southgate Avenue Interchange Project, Chico, California.*
- ➤ Blackburn Consulting, State Route 99 at Skyway Interchange:
  - Draft Geotechnical Design/Materials Report, June 28, 2007
  - ISA Update, April 18, 2007
  - Draft Report of Aerially Deposited Lead Investigation, June 29, 2007
  - Subsurface Materials Investigation, Geosynthetic Reinforced Embankment, December 18, 2007
- ➤ Butte County Department of Public Works, August 2, 1977, *Plans for Construction of Skyway Bridge across Butte Creek*, As-Built Plans.
- > Butte County Department of Public Works, September 13, 1977, Plans for Construction of Skyway Bridge across Little Chico-Butte Creek Diversion Channel, As-Built Plans.
- California Department of Water Resources, Division of Planning and Local Assistance, *Groundwater Level Data*, http://wdl.water.ca.gov/gw.
- California Division of Mines and Geology, 1992, Geologic Map of the Chico Quadrangle, Map No. 7A.
- ➤ California Department of Transportation (Caltrans), Office of Earthquake Engineering, 2006, Seismic Design Criteria, Version 1.4.
- ➤ Caltrans, Division of Engineering Services, Corrosion Technology Branch, September 2003; *Corrosion Guidelines, Version 1.0.*
- ➤ Caltrans, Project Plans for Construction on State Highway, in Butte County in and near Chico, From 0.3 Mile North of Pentz Road Overcrossing to 0.2 Mile South of Skyway Overcrossing, March 2, 1987. Includes bridge structures at:
  - Hamlin Slough Bridge, No. 12-131
  - Nance Canyon Bridge, No. 12-129
  - Scrub Creek Bridge, No. 12-125
  - Butte Creek Bridge, No. 12-126
  - Edgar Slough Bridge, No. 12-128
- Engeo, Inc, February 13, 2008, Preliminary Geotechnical Report, Chico Gateway Development, Chico, California.
- ➤ Helley, E.J. and Harwood, D.S., 1985, Geologic Map of the Late Cenozoic Deposits of the Sacramento Valley and Northern Sierran Foothills, U.S. Geological Survey, Map MF-1790.

- ➤ Jennings, Charles W., 1994, Fault Activity Map of California and Adjacent Areas with Location and Ages of Recent Volcanic Eruption, California Department of Conservation, Division of Mines and Geology, Geologic Data Map No. 6.
- Mualchin, L., 1996, *California Seismic Hazard Map*; State of California, Department of Transportation.

# **FIGURES**

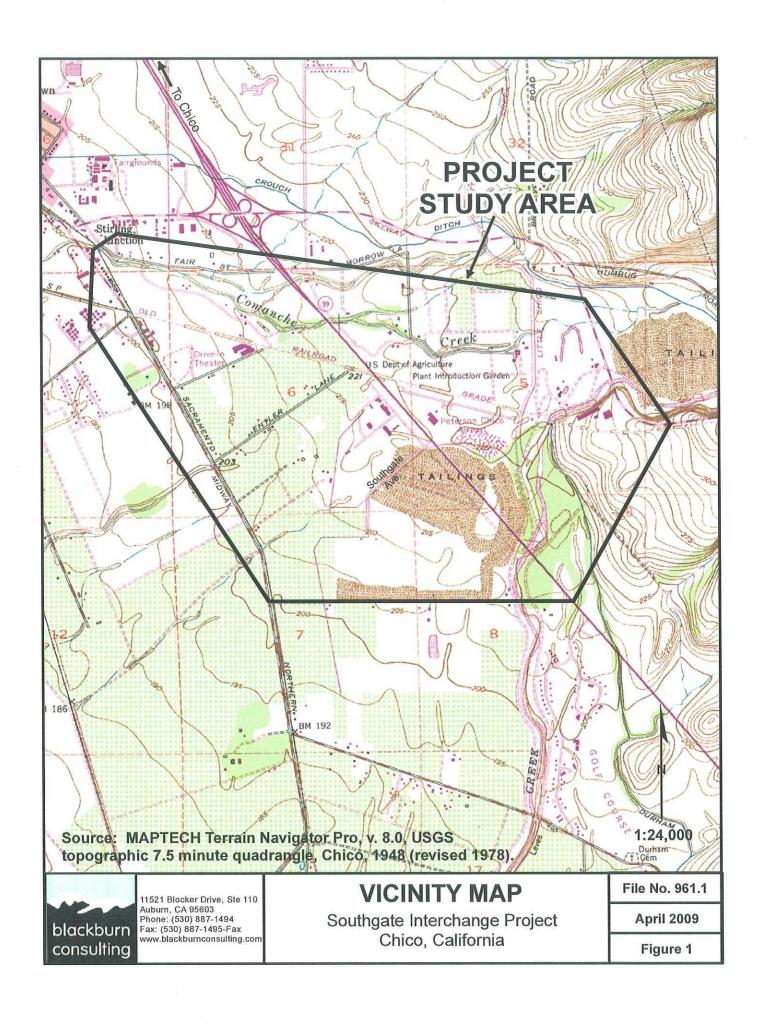
Figure 1 Vicinity Map

Figure 2 Conceptual Project Improvements Map

Figure 3 Geologic Map

Figure 4 Fault Map

Figure 5 ARS Curve



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consulting

Source: Conceptual Project Improvements, Exhibit A by Mark

Thomas & Company, Inc.

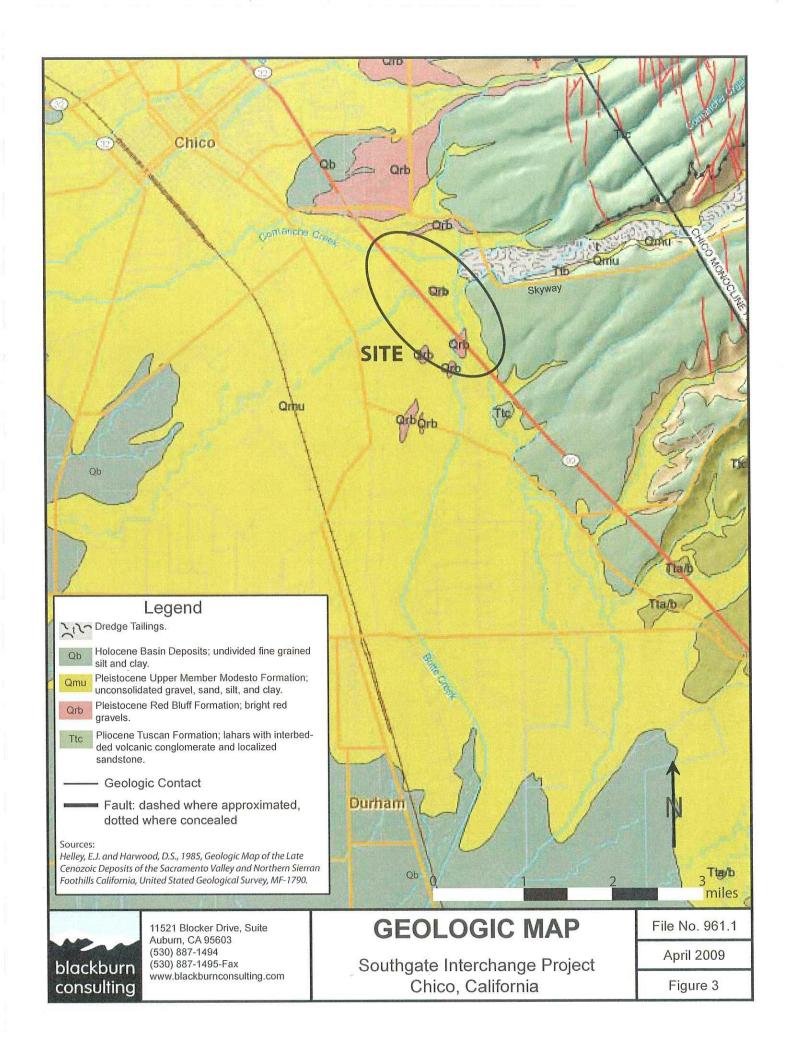
April 2009

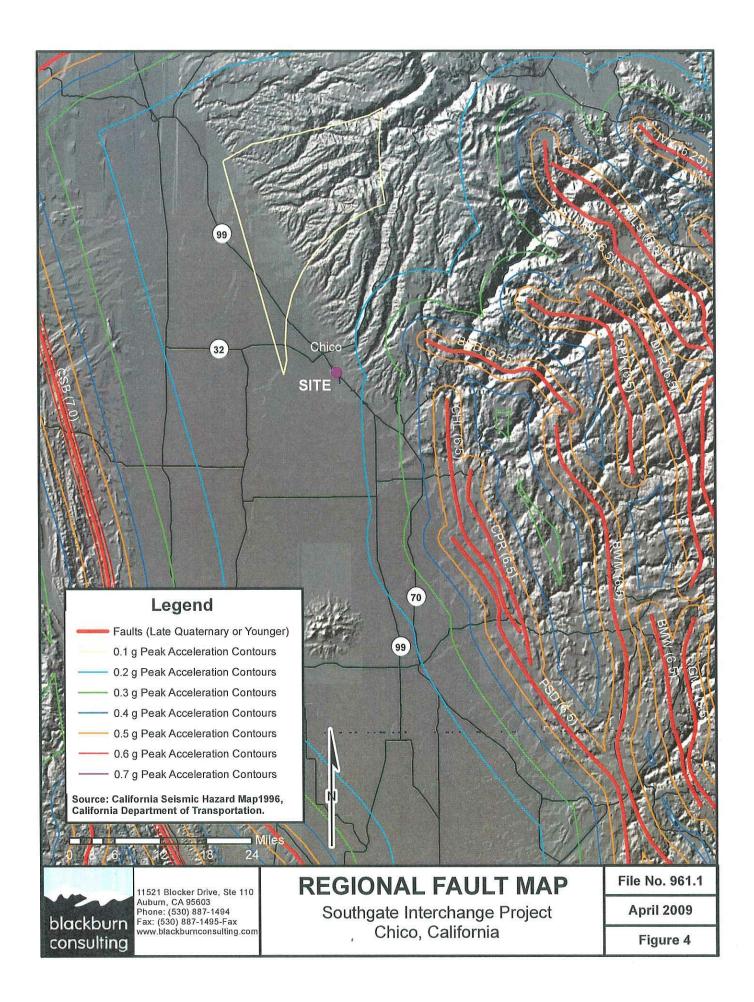
Figure 2

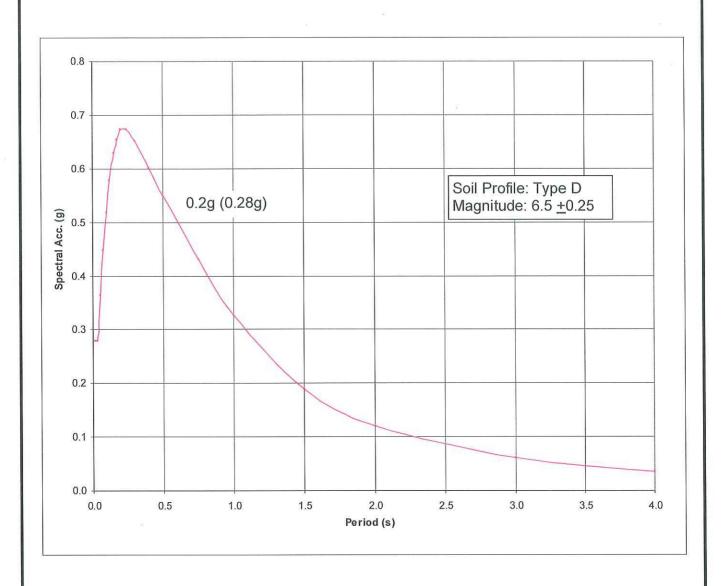
Southgate Avenue Interchange Project

Chico, California

Entler Avenue bridge (or culvert) at Camanche Creek tributary







Reference: Figure B.7, Caltrans Seismic Design Criteria, Ver. 1.4, June 2006



11521 Blocker Drive, Suite 110 Auburn, CA 95603 Phone: (530) 887-1494 blackburn
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www.blackburnconsulting.com

# **ARS CURVE**

Southgate Avenue Interchange Project Chico, California

File No. 961.1

April 2009

Figure 5

# APPENDIX



# Log of Test Boring Sheets

SR 99 @ Hamlin Slough

SR 99 @ Nance Canyon

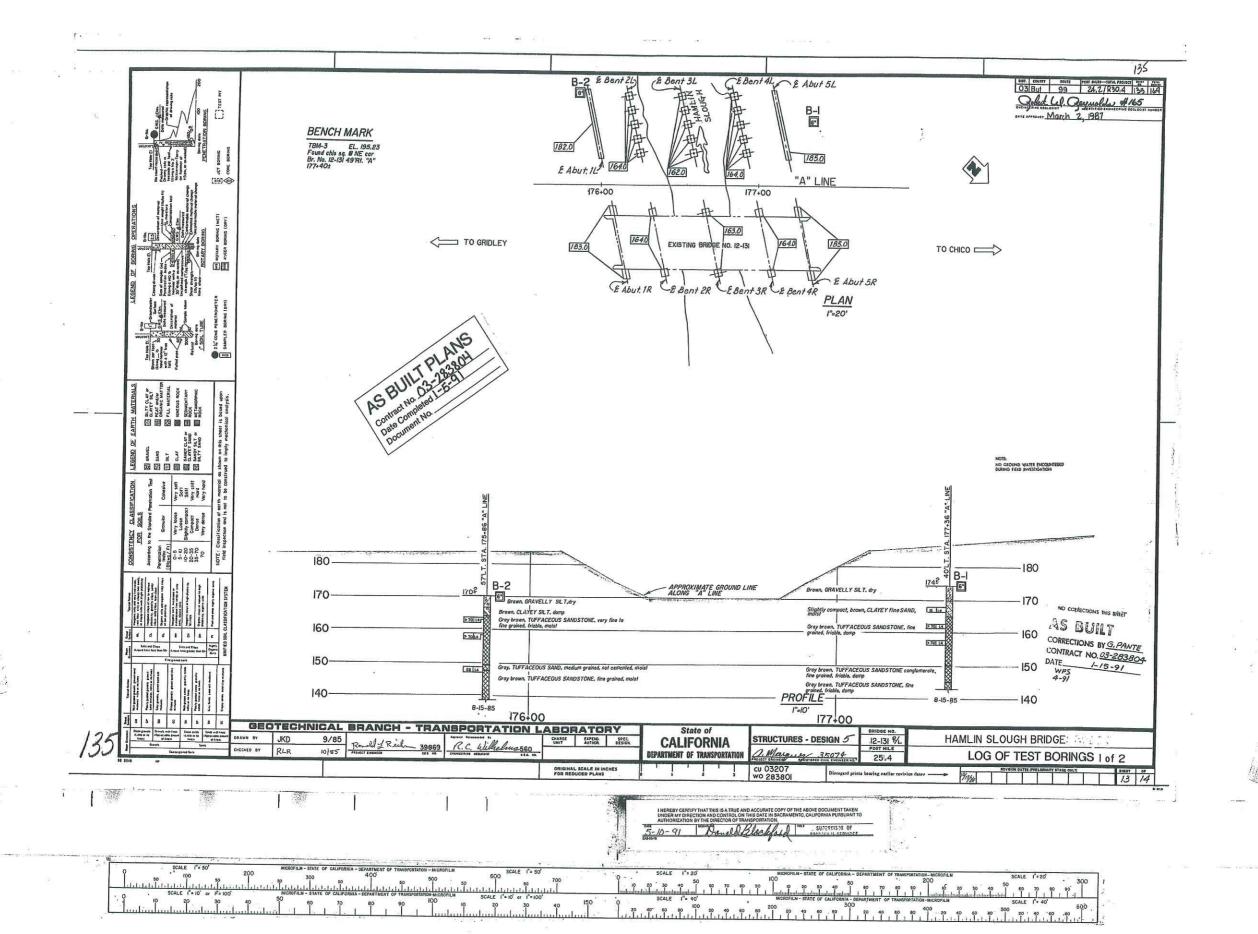
SR 99 @ Scrub Creek

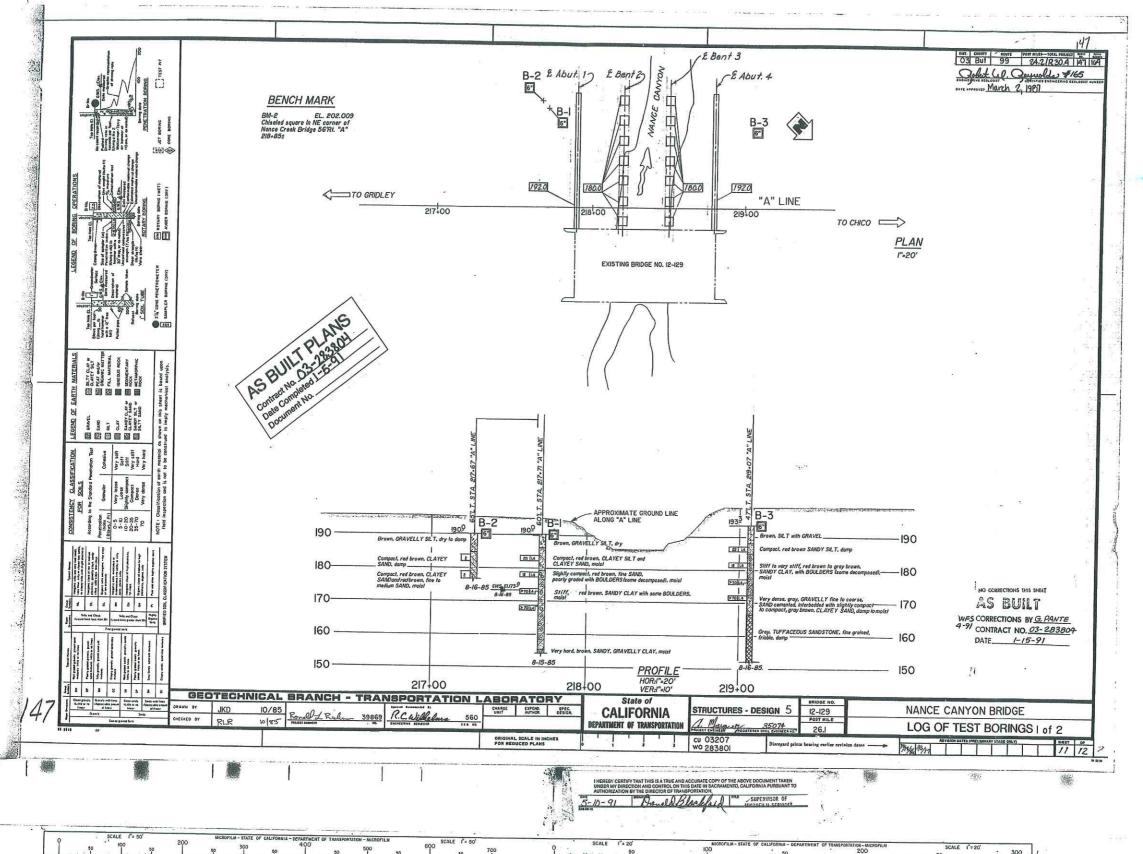
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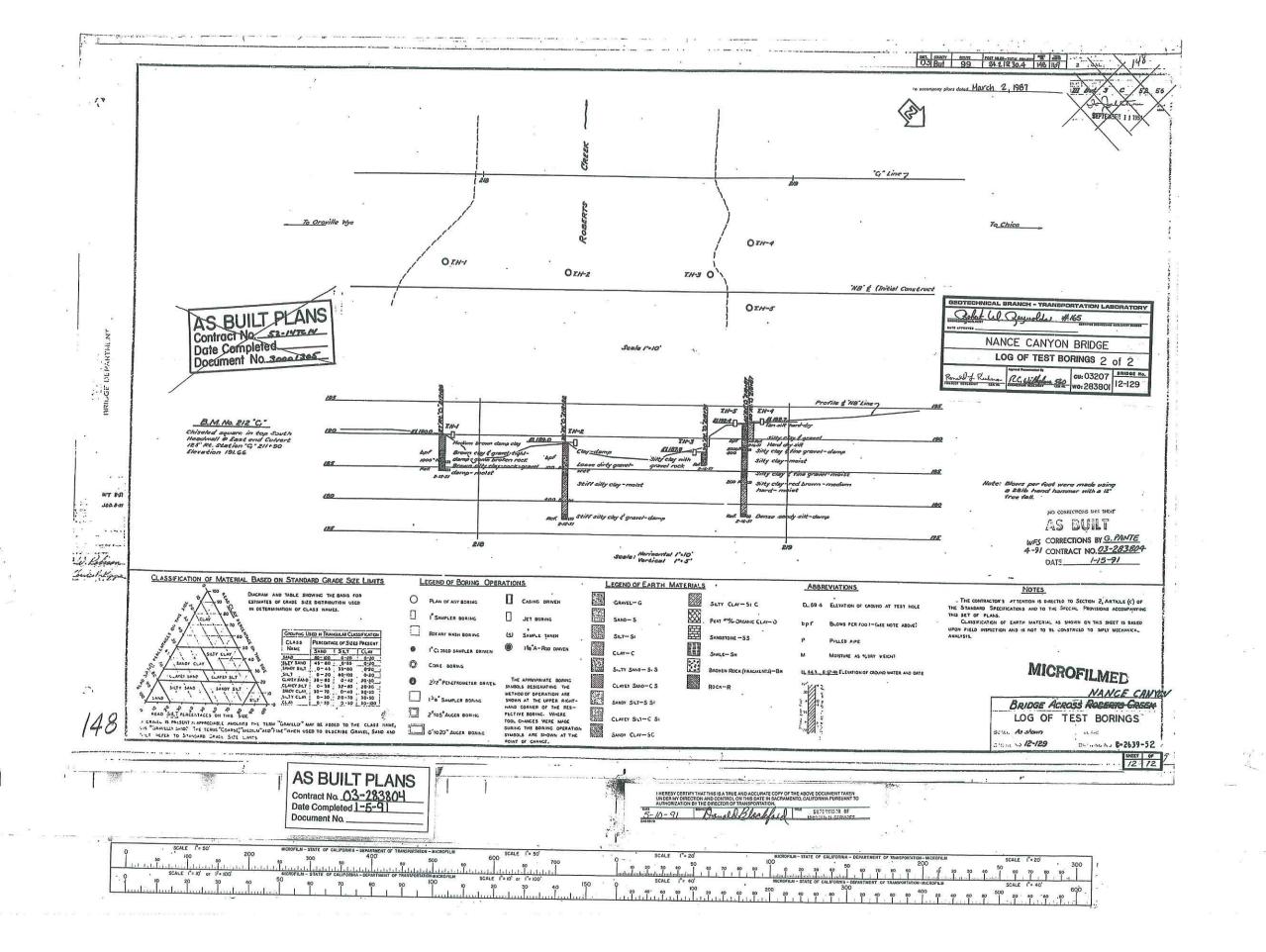
SR 99 @ Edgar Slough

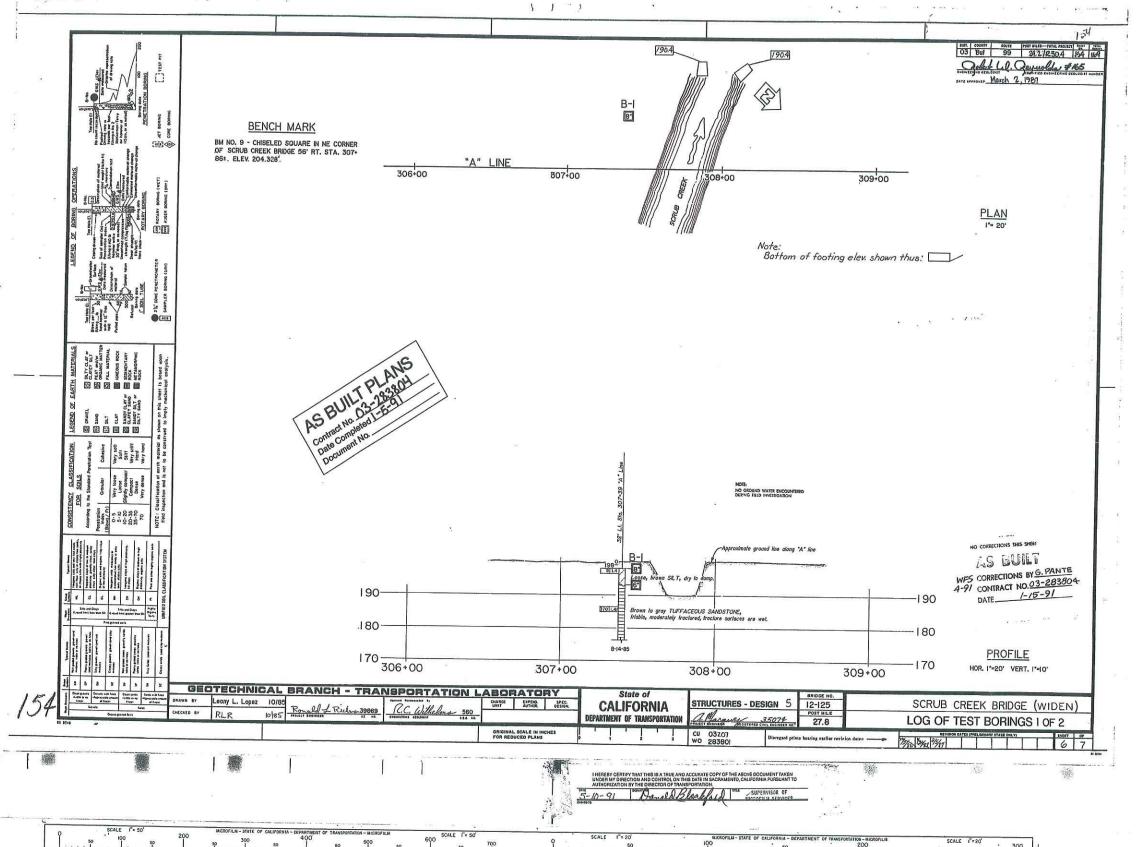
Skyway @ Little Chico Diversion

Skyway @ Butte Creek

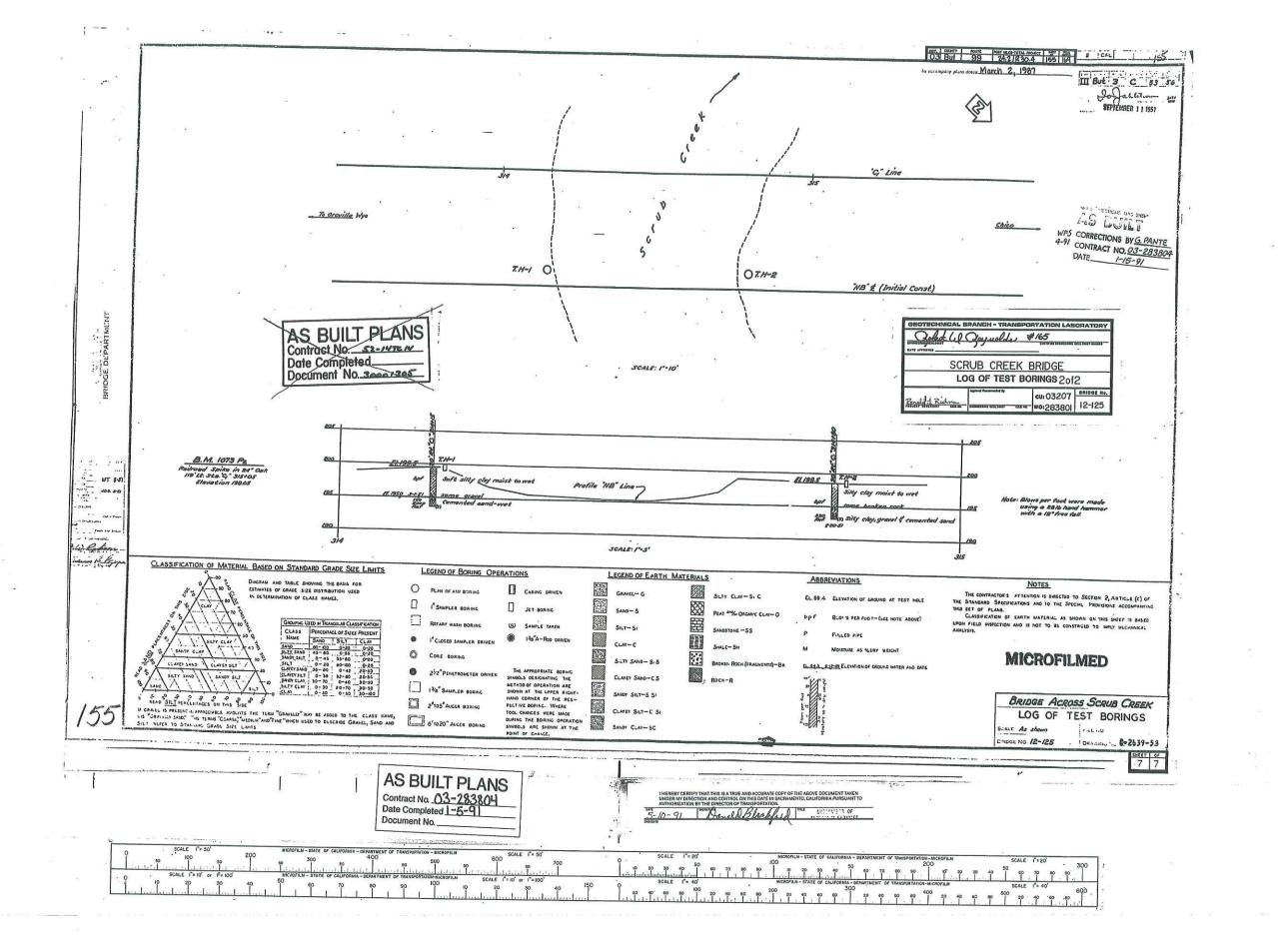


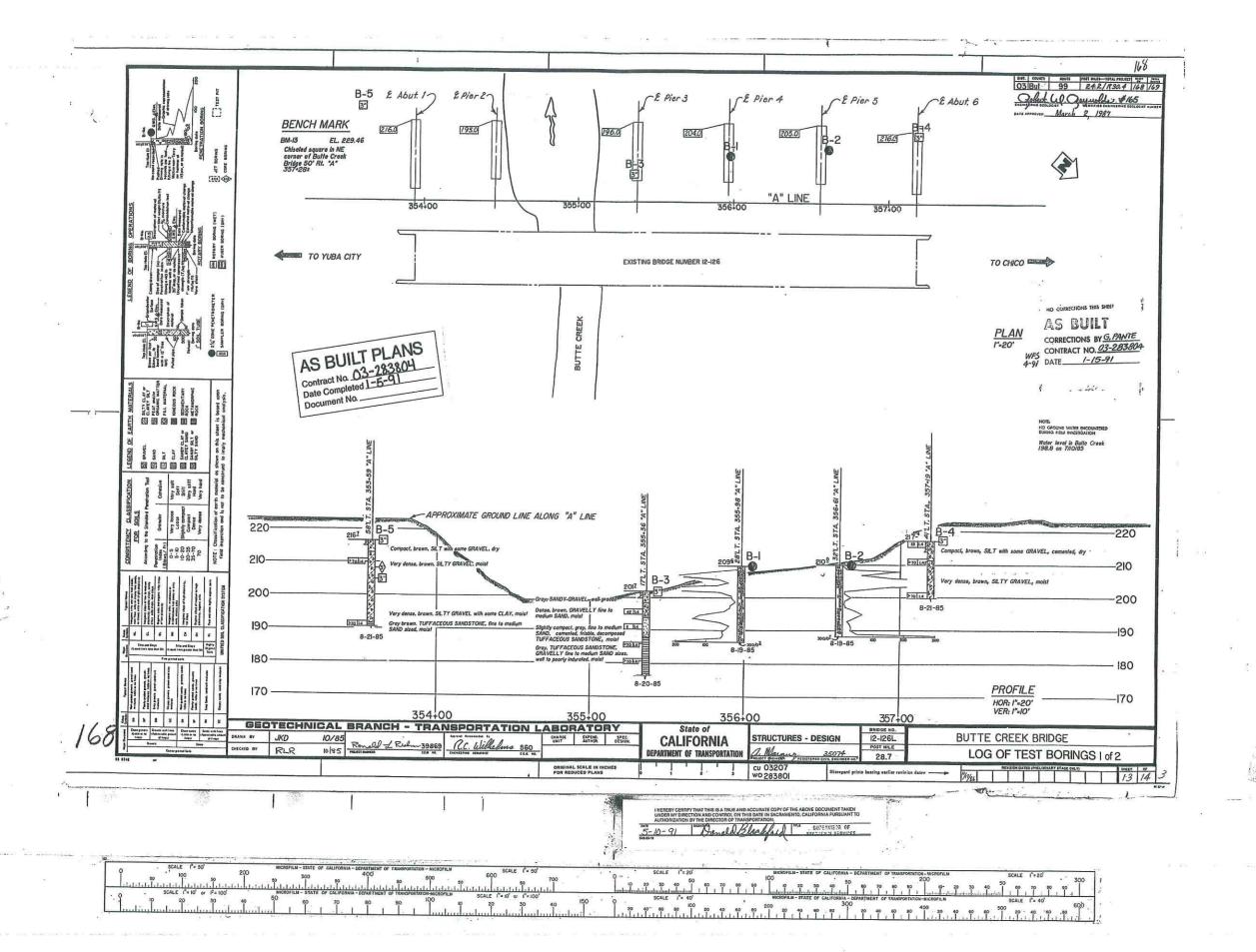


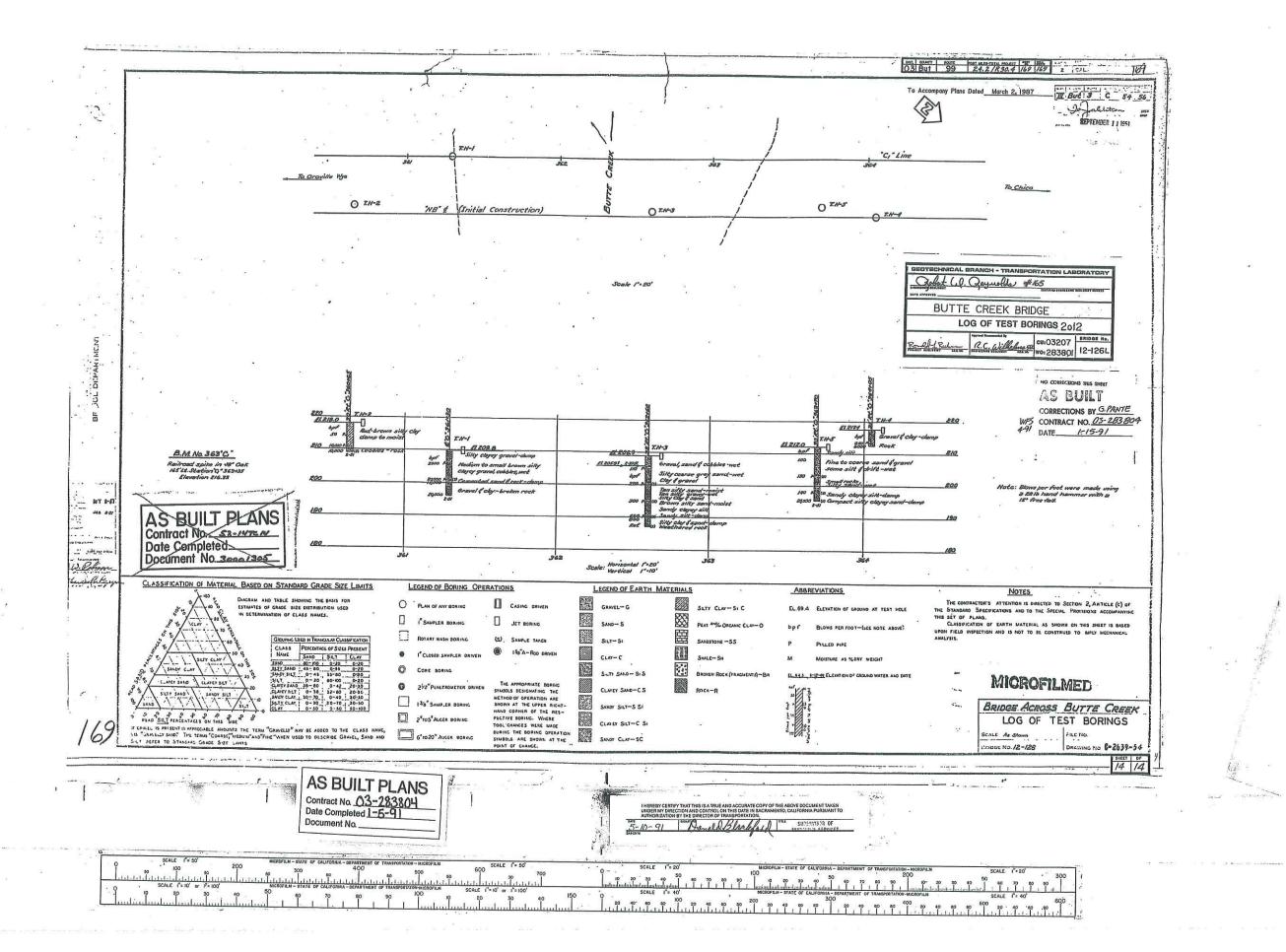


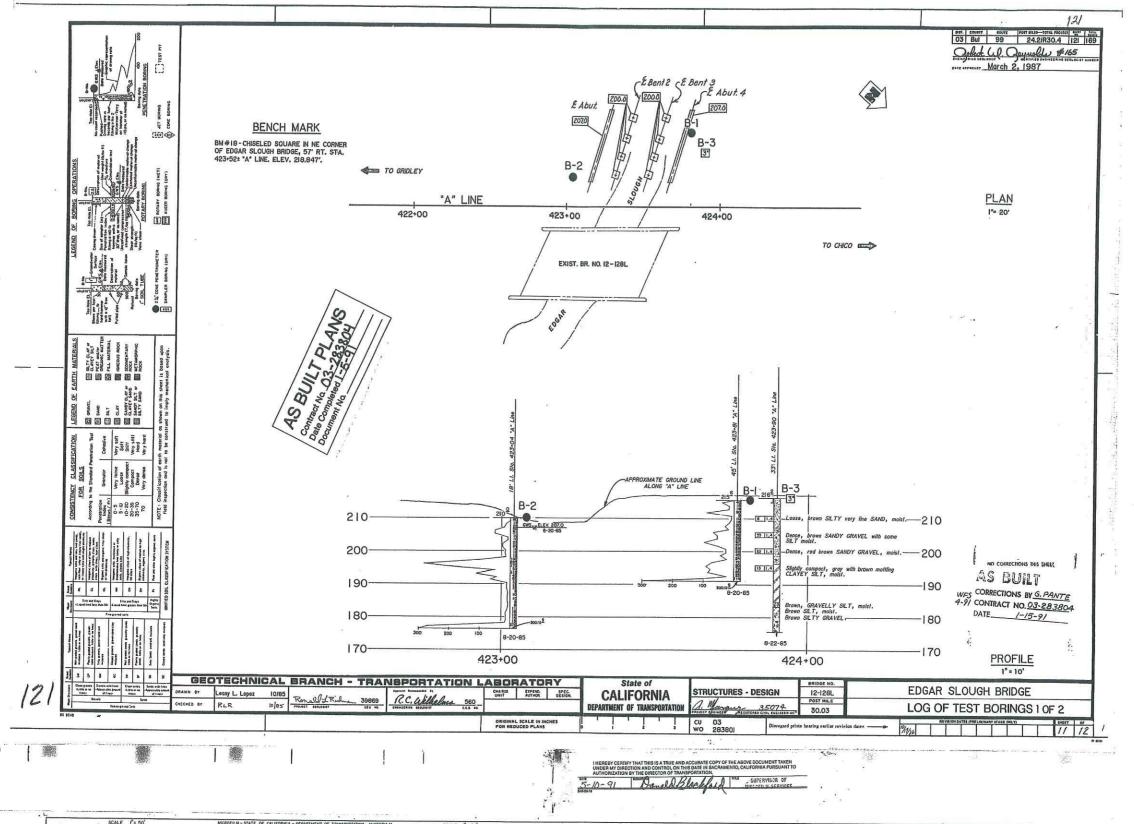


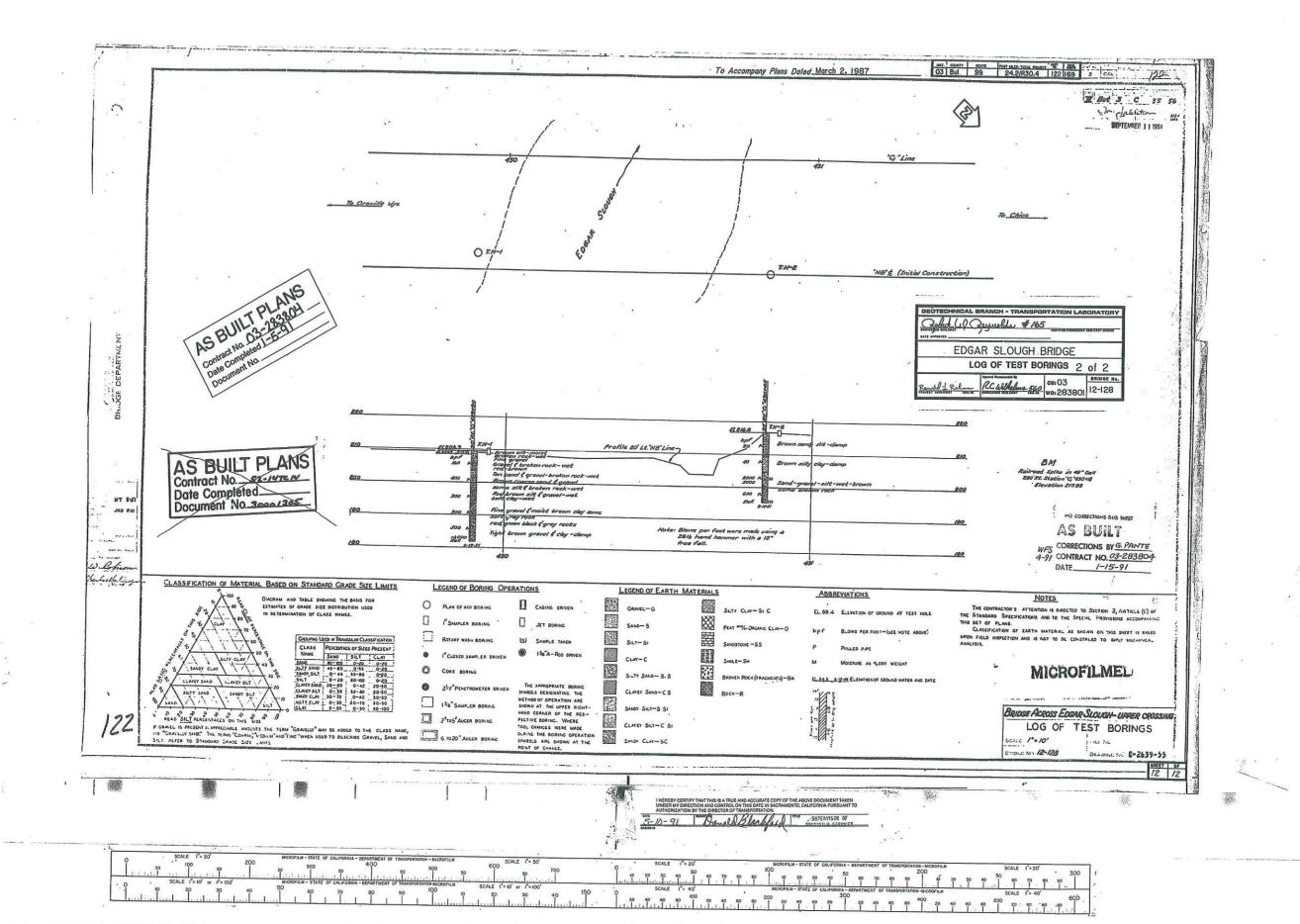
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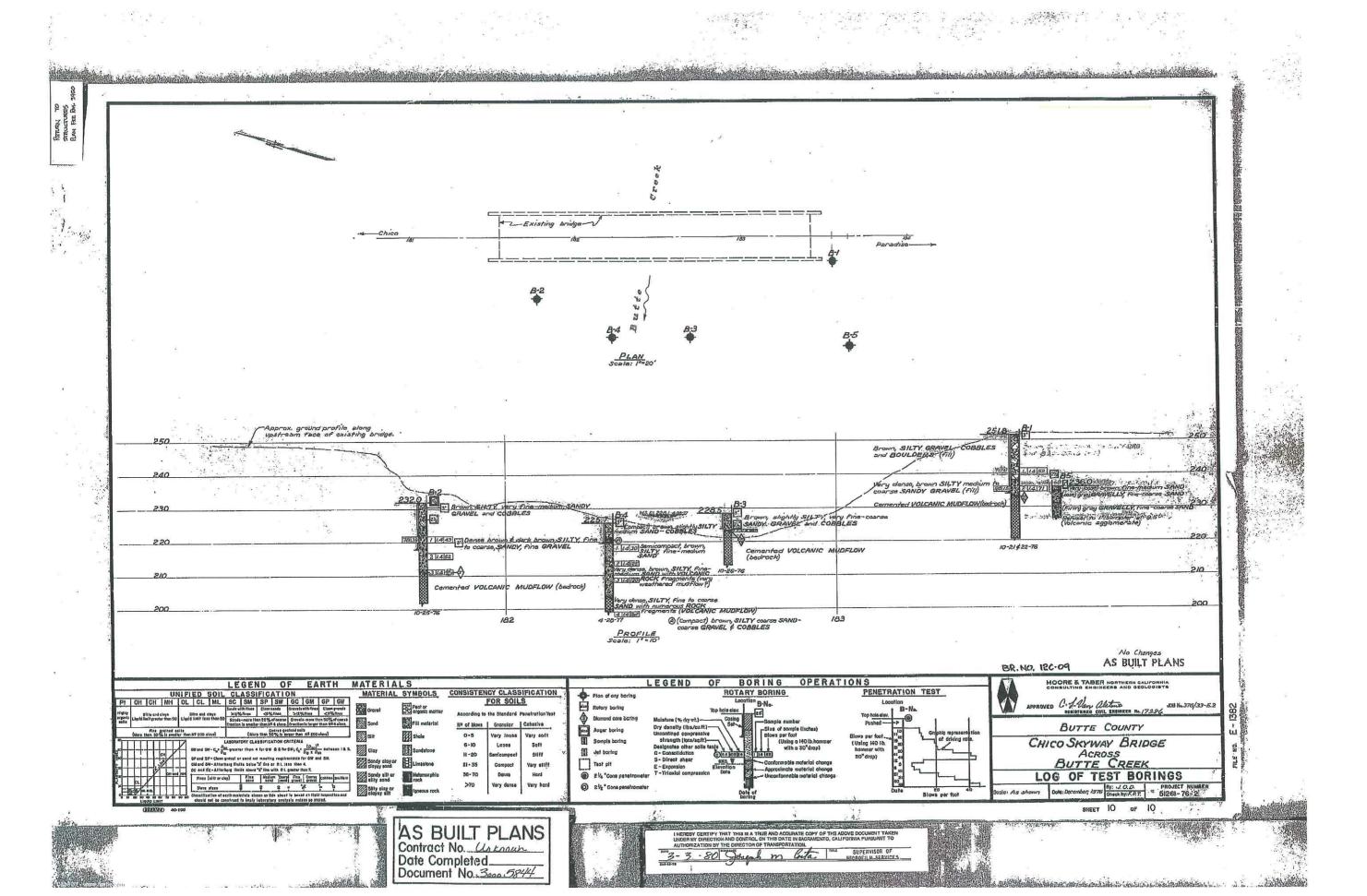


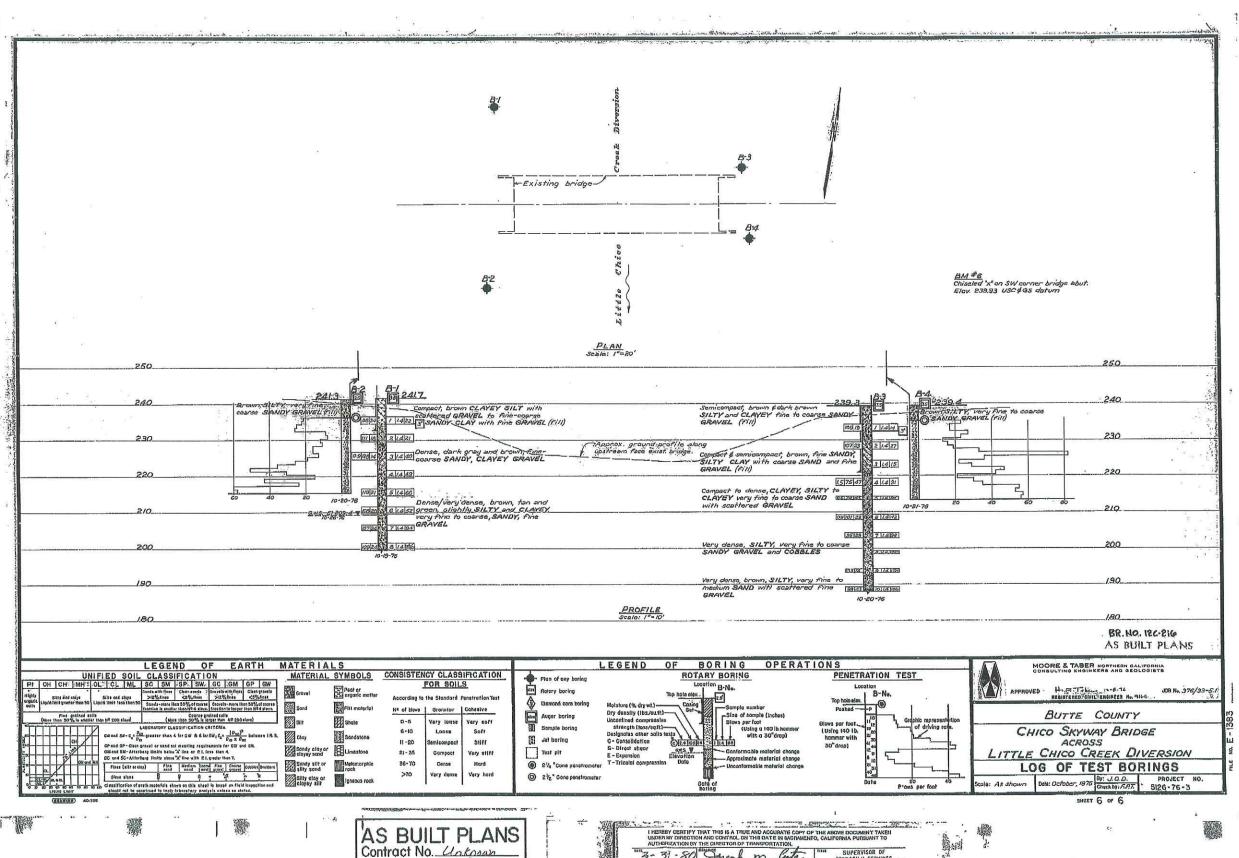












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### APPENDIX



Site Photos



Look NW from Southgate Ln. Toward Interchange.



Look W through Southgate Intersection @ SR 99.



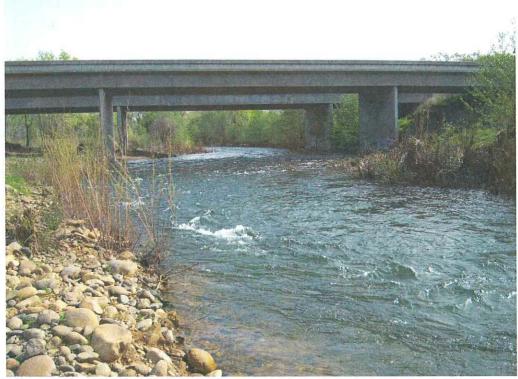
Look northeast through SR 99 and Southgate Intersection.



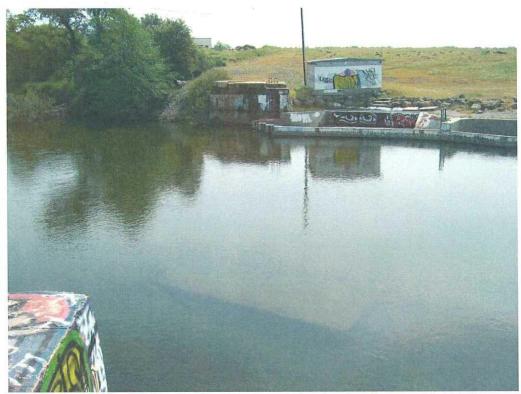
Look north at SR 99 from Southgate Ave.



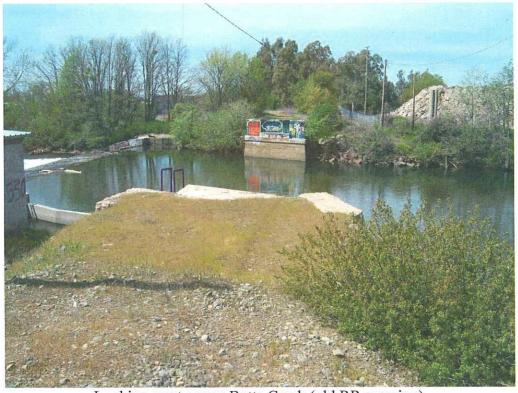
Looking east toward SR 99 at Butte Creek.



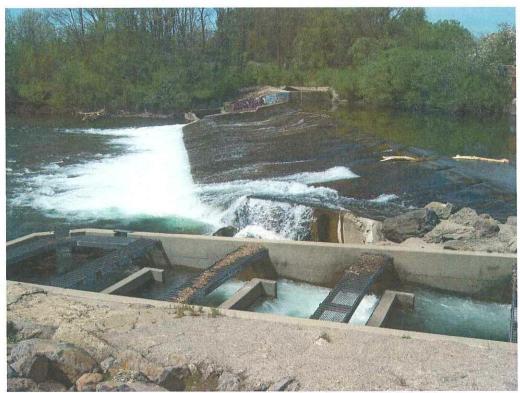
Looking northeast (upstream) at SR 99 and Butte Creek.



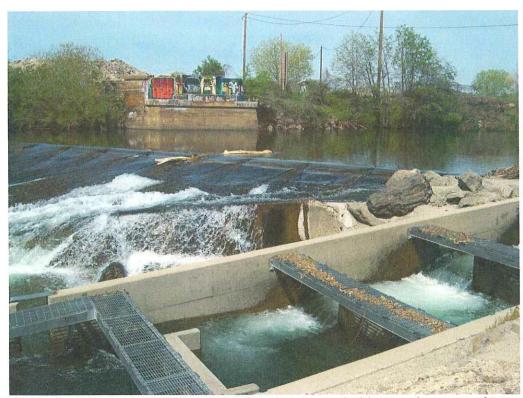
Looking east across Butte Creek along proposed Southgate alignment (old RR crossing).



Looking west across Butte Creek (old RR crossing).



Looking west at Butte Creek diversion dam and fish ladder.



Looking northwest across Butte Creek diversion dam toward old west abutment of RR crossing.



Looking east from Butte Creek toward Skyway, along proposed Southgate alignment.



Looking west from L. Chico diversion along proposed Southgate Ave. alignment.



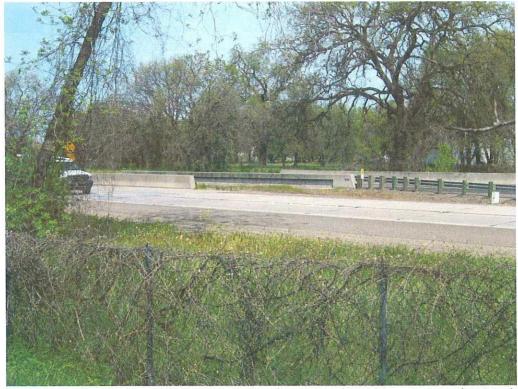
Looking east across L. Chico diversion (old RR grade).



Looking west across L. Chico diversion.



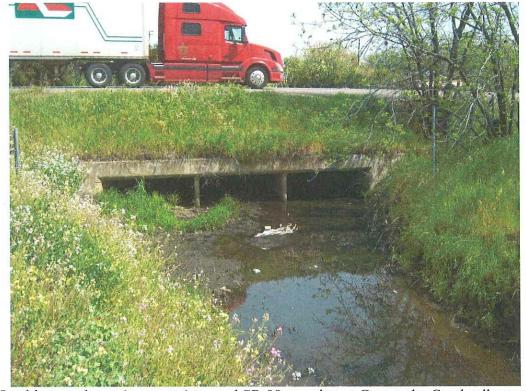
Looking north toward Entler Ave. extension at Comanche Creek.



Looking northeast from Entler Ave. extension toward SR 99 at Comanche Creek.



Looking southeast from Comanche Creek tributary along Entler Ave. extension.



Looking northeast (upstream) toward SR 99 crossing at Comanche Creek tributary.

# J. Public Workshop Comments



(Please note that this document will be part of the public record.)

November 5, 2008

City of Chico Council Chambers Building

Date:

Location:

| 421 Main Street, Chico, CA   |
|--|
| Project: State Route 99/Southgate Avenue Interchange and Corridor Study  |
| Meeting: Public Information Workshop #1  |
|  |
| Name (Please Print): BErenly Chambers  |
| Mailing Address: 586 Enther Are Obico, 95928   |
| Phone Number: 891-1066   |
| Resident, Business, Organization, etc.: Lesident   |
| Comments: widening Enther to 4 Lanes is the dumbest  |
| there I've EVER hered.   |
| Widening the road shong the Comptanditch by The  |
| Little League Field makes much more sense.   |
| Widening the road shong the Comptanditch by The Little league Field mater much more sense.  There is No Room along Entlese to widen it to 4 lanes. |
| lanes.   |
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Please submit comments by Friday, November 21, 2008



(Please note that this document will be part of the public record.)

November 5, 2008

Date:

| Location:            | 421 Main Street, Chico, CA  |
|----------------------|---|
| Project:<br>Meeting: | State Route 99/Southgate Avenue Interchange and Corridor Study Public Information Workshop #1 |
| Name (Pleas          | se Print): Barbara Vlamis<br>Iress: 116. W. Sacud St. #3 95928                                |
| Phone Num            | ber: 891-6424   |
| Resident, B          | susiness, Organization, etc.: <u>BEC</u>  |
| Comments:            | The presentation of this project is   |
| Butte                | 2009 How the Chico, taradise, 40 County general plans implement \$B32                         |
| takes                | priority.   |
|                      |   |
|                      |   |
|                      |   |

Please submit comments by Friday, November 21, 2008



(Please note that this document will be part of the public record.)

November 5, 2008

Date:

| Location: City of Chico Council Chambers Building 421 Main Street, Chico, CA  |
|---|
| Project: State Route 99/Southgate Avenue Interchange and Corridor Study  Meeting: Public Information Workshop #1  |
| Name (Please Print): Becky Milani   |
| Mailing Address: 14 Baja Ct 95928   |
| Phone Number: 898 - 8009  |
| Resident, Business, Organization, etc.: Resident  |
| comments:  1) Do on expanded road  at Entler  |
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| ) norse à light control   |
| 3) Factor in Big Picture - development,   |
| utility, etc.   |
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Please submit comments by Friday, November 21, 2008



(Please note that this document will be part of the public record.)

November 5, 2008

City of Chico Council Chambers Building

Date:

Location:

|              | 421 Main Street, Chico, CA                                     |
|--------------|--|
| Project:     | State Route 99/Southgate Avenue Interchange and Corridor Study |
| Meeting:     | Public Information Workshop #1                                 |
|              | Z · K D  |
| Name (Pleas  | e Print):  |
| Mailing Addr | ess: 1765 Bak Way Chico 95926                                  |
| Phone Numb   | (520) 21br -410rd  |
|              | usiness, Organization, etc.: Little Chico Foucators Consortium |
| Nesident, De |  |
| Comments:    | I his project interestine immensely. I Think                   |
| thee         | change Glong Southquie will Definitely 9m-                     |
| OFZEY        | e He Styling Traffic From and To Paradise                      |
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| Iw           | ould like to see trutted avoited from                          |
| 5017         | Anila Rord south on Mencian Road and                           |
| high         | way 32 To comed on Southgale                                   |
| A            | 2 Trunderstand it, the greentilant protects hand               |
| Grance       | commercial development, not proads. The                        |
| green        | lipe would protect the road from connevial                     |
| - alex       | Please submit comments by Friday, November 21, 2008            |
|              |  |

Completing and signing this document is voluntary. This information is for statistical purposes only and to notify you of any future hearings. This document is a public record and may be

subject to inspection and copying by other members of the public.



(Please note that this document will be part of the public record.)

|      | Date:          | November 5, 2008   |
|------|----------------|--|
|      | Location:      | City of Chico Council Chambers Building  |
|      |                | 421 Main Street, Chico, CA   |
|      | Project:       | State Route 99/Southgate Avenue Interchange and Corridor Study                       |
|      | Meeting:       | Public Information Workshop #1   |
|      |                |  |
|      |                | Si Maran   |
|      | Name (Pleas    | se Print): The Mudales   |
|      | Mailing Add    | ress: 19 SEGA DAIVE, CHIO, CA. 95988   |
|      | Phone Num      | ber (530) 894-2789   |
|      | Posidont D     | usiness, Organization, etc.: RESIDENT- LON WROCCOMMY                                 |
|      | Resident, Di   | usiness, Organization, etc.: REDIDENT LANGUIGNOVI                                    |
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| 3.11 | Sound          | BARRIER WOULS-   |
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| Fil  | THE            | NOON VIENANCE DE GETTING THOMAS PORD   |
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|      | Completing a   | and signing this document is voluntary. This information is for statistical purposes |
|      | only and to i  | notify you of any future hearings. This document is a public record and may be       |
|      | subject to ins | pection and copying by other members of the public.                                  |

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(b) THE IMPACTON MY WELL FROM THE DEVENDMENT

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City of Chico
Capital Project Services Department
Attn: Jeff Jukkola

411 Main Street

P.O. Box 3420 Chico, CA 95927 Place Postage Here

City of Chico
Capital Project Services Department
Attn: Jeff Jukkola
411 Main Street
P.O. Box 3420
Chico, CA 95927



NOV 1 9 2008

CITY OF CHICO BDSD / CPSD

A Cemilloppe 08

### **Comment Card**

(Please note that this document will be part of the public record.)

November 5, 2008

421 Main Street, Chico, CA

City of Chico Council Chambers Building

Date:

Location:

| Project: State Route 99/Southgate Avenue Interchange and Corridor Study Meeting: Public Information Workshop #1  |
|--|
| Name (Please Print): Kathryn Clements Coots  |
| Mailing Address: 505 Rhapis Dr. Chilo C4 95928   |
| Phone Number: (530) 896-1799   |
| Resident, Business, Organization, etc.: Yesident   |
| Comments: I am not convinced that our area   |
| Will experience as a significant increase  |
| in traffic over the next decade or troo to   |
| wirrant an interchange at they 99 and  |
| Southgate.   |
| Given that there truly is a need for   |
| this giant expense, I do not support a   |
| widehing of Entler to a 4-lane primary   |
| connection between they 99 & the Midway.   |
| Such a project would chase a significant   |
| impact to the neighborhood of required removal of  |
| numerity frees along Enffertes the Midway. Please submit comments by Friday, November 21, 2008   |
| Completing and signing this document is voluntary. This information is for statistical purposes only and to notify you of any future hearings. This document is a public record and may be subject to inspection and copying by other members of the public. |

### Danie Cart

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APR 0 8 2009

CITY OF CHICO BDSD / CPSD

### **Comment Card**

(Please note that this document will be part of the public record.)

Please submit comments by Friday, April 17, 2009



(Please note that this document will be part of the public record.)

Date:

April 2, 2009

| Location:    | 421 Main Street, Chico, CA   |
|--------------|--|
| Project:     | State Route 99/Southgate Avenue Interchange and Corridor Study   |
| Meeting:     | Public Information Workshop #2   |
| Name (Pleas  | Becky Milani   |
| Mailing Add  | 11 7 1 01 01 1 05020   |
| Phone Numl   | per:   |
| Resident, Bu | usiness, Organization, etc.: <u>Resident</u>   |
| Comments:    |  |
| seems        | to be to correctly fix skyway  |
| · Park       | - and run it through the interfection  |
| O'D          | ark/Midway to the Hagan business park  |
| and '        | as feeder For future Diamind Matter  |
| R            | esidents off Entler prefer to remain   |
| Count        | The same comments by a district of the first of the same of the sa |
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| develop      | ment considerations infrastructure   |
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Please submit comments by Friday, April 17, 2009



APR 0 8 2009

CITY OF CHICO BDSD / CPSD

### **Comment Card**

(Please note that this document will be part of the public record.)

Date:

April 2, 2009

Location:

City of Chico Council Conference Room No. 1

421 Main Street, Chico, CA

Project:

State Route 99/Southgate Avenue Interchange and Corridor Study

Meeting:

Public Information Workshop #2

| Name (Please Print): Michael Murphy              |
|--|
| Mailing Address: 1 Gold Creek WAY                |
| Phone Number: 89.3 -8843                         |
| Resident, Business, Organization, etc.: ResideNT |
| Comments: I have lived in Chico SiNCE 1973,      |
| I would rather SEE. The city Spend Money         |
| ON road Improvements In The city Limits          |
| I MAN NAME SeverAl,                              |
| AS A COUNTY resideNT I would rather The          |
| county spend its money IN The much               |
| Needed Dump of proville, That part               |
| Of The county looks like it has NO control       |
| AND Improvements AT All.                         |
| I AM Against ANY changes To my Neighborhood      |

Please submit comments by Friday, April 17, 2009



APR 0 6 2009

CITY OF CHICO BDSD / CPSD

### **Comment Card**

(Please note that this document will be part of the public record.)

|      | Date:<br>Location:   | April 2, 2009 City of Chico Council Conference Room No. 1  |
|------|----------------------|--|
|      | Project:<br>Meeting: | 421 Main Street, Chico, CA State Route 99/Southgate Avenue Interchange and Corridor Study Public Information Workshop #2 |
|      | Name (Pleas          | e Print): Stellatteld  |
|      | Mailing Addr         | ess: 345 Entler Ave Chico  |
|      | Phone Numb           | per: 345-5386  |
| (    | 13. 7                | siness, Organization, etc.:  |
| (-   | Comments:            | ALL options re: Road Access Should   |
|      | be pro               | sent @ once so one can make a  |
|      | acos                 | derson.  |
|      | The                  | my into was presented it seems alce,   |
|      | City 1               | sakts thus option as App'l Development   |
|      | well k               | so all moved eventrally Cuty well toke   |
|      | CVex 4               | entere areat Cel reads to Stry   |
|      | unth                 | cer purpose city Units + lesvel ounter   |
|      | Alone                | If ISSUE in w Paraduo fraffer  |
| (    | fon th               | e Sky Way reads to be re-designed.   |
| JT X | richais.             | to Do by movey + Allowing the New Development  |
| C    | er whec              | Please submit comments by Friday, April 17, 2009   |
|      |                      | r lease submit comments by i may, April 17, 2000   |



APR 0 7 2009

CITY OF CHICO BDSD / CPSD

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Date:

April 2, 2009

Location:

City of Chico Council Conference Room No. 1

421 Main Street, Chico, CA

Project:

State Route 99/Southgate Avenue Interchange and Corridor Study

Meeting:

Public Information Workshop #2

| Name (Please Print): KAren Murphy                 |
|---|
| Mailing Address: 16010 Creek WAY                  |
| Phone Number: 893-8843                            |
| Resident, Business, Organization, etc.: ResideNT  |
| Comments: SINCE YOU Are GOING TO Shove This ON US |
| Like IT or NOT I would like ExhibiT A TO          |
| STATT WITH THAT WOULD GIVE US TIMETO MOUR         |
| out of This Town of STATE. There Are much         |
| better Things That The city rould Improve od.     |
| AS FAY AS The county They Need To fix roads       |
| in proville + Get rid of The Trash, If The        |
| CITY AND COUNTY had beTTER EYE Appeal We          |
| might ATTRACT JOBS THAT PAY beTTEN THON           |
| MIN WAGE  |

Please submit comments by Friday, April 17, 2009

### Jeff Jukkola - Southgate & Skyway change comments

From: "Ric Morrison" < ric@sunsetmoulding.com>

To: "Jeff Jukkola" <JJukkola@ci.chico.ca.us>

**Date:** 4/3/2009 11:26 AM

**Subject:** Southgate & Skyway change comments

cc: <jolene@chicochamber.com>, "Bob Greenlaw" <bgreenla@ci.chico.ca.us>, "Tom Varga"

<tzvarga@ci.chico.ca.us>, "Matt Brogan" <mbrogan@markthomas.com>, "John Morrison"

<john@sunsetmoulding.com>, "Tom Maclean" <tom@sunsetmoulding.com>

### Jeff:

I felt the meeting last night was very well presented. I definitely look forward to being a part of your task force committee on this issue. Please let me know the dates/times of the meetings well in advance as my calendar fills up quickly.

I am choosing to provide my comments via e-mail as opposed to using the comment cards due to my poor handwriting (I want you to be able to read my comments).

Comments relative to the Southgate/Skyway proposed changes:

- 1. Sunset cannot afford to have the Skyway interchange take any of our land. We are also extremely concerned about being boxed in by Butte Creek, Southgate and Skyway. The extension of Southgate is something that we have never heard of before and I will address that in point 2. We request that you follow Skyway's current path to connect into Southgate rather than running across our land. That land is the site of our new solar field and I know that the city, county and state are just as concerned about environmental issues as Sunset is and therefore feel you will understand the necessity of leaving that solar field intact.
- 2. Sunset has just closed the Cottonwood, CA Division and moved all of that production to our Chico Division at great expense. This will definitely increase our payroll at the Chico Division and provide more jobs in the greater Chico area. We are currently negotiating with the railroad to purchase the right-of-way so that we can build another storage building on that land to support the product line we have just moved there. I know that Chico wants to work with us to keep employment at our facility. Therefore, we request that you realign the Southgate connection to Skyway south of the railroad right-of-way to allow us to continue with our plans to construct an extremely necessary building on that land.

Thank you again for working with us to keep our company intact and to allow us to remain as a strong employer in the Chico area.

Ric Morrison
Production Coach
Sunset Moulding Company
P.O. Box 326
Yuba City, CA 95992

2200 Paseo Avenue Live Oak, CA 95953 Direct 530-790-2742 Fax: 530-695-1041 ric@sunsetmoulding.com

# Southgate Stakeholders Southgate Special Planning Area

December 4, 2008

Mr. Matt Brogan, PE Senior Project Manager Southgate Interchange TAC 7300 Folsom Blvd., Suite 203 Sacramento, CA 95826

Dear Mr. Brogan:

I am writing on behalf of the owners of land represented by the Southgate Stakeholders located within the Southgate Special Planning Area. As you may be aware, the City recently declined to alter the greenline in any location including our property. We believe that this decision was both short sighted and may have been made without complete information.

It is my understanding, through attending the Southgate interchange meetings, that new roads are needed to improve connectivity from the Midway to State Highway Route 99. Without improved connectivity, both East Park Avenue and the Skyway will fail to meet the needs for projected traffic in the next ten years - unless lanes are added. In ten years, additional lanes may be infeasible and would certainly be a major expense. Unless the City plans to route this traffic through Entler and/or the Speedway (currently neighborhood streets), the logical connection is through our properties. We recognize that the need for a road connecting Southgate and the Midway is perhaps a decade into the future. While I have no desire to run a road through an economically viable orchard, this particular orchard has approximately 10 productive years left in its useful life. In addition, it is my understanding that the general plan staff report to the City Council does NOT include enough land to handle the 2030 projected population growth. The combination of a new connector road, elimination of the heavy traffic demands on Entler and Speedway plus the additional land for the city of Chico represent a win-win-win for everyone.

We hope that the Southgate Interchange traffic study would be provided to the City Council prior to their final deliberations on the 2030 General Plan. Your traffic study demonstrates both the need and logic to <a> utilize our properties for the new connector road and <b> the need to move the greenline to follow the Midway and Marybill Ranch Road boundary. Until the greeline is moved and our properties are annexed to the city of Chico, we are unwilling to accommodate the necessary roadways. Thank you for addressing our concerns and suggestions for a practical solution to Chico's transportation and traffic issues.

Respectfully yours.

George Nicolaus
cc Steve Lambert

66 Marybill Ranch Road Chico, California 95928 9563 Phone 530 894-6171 Fax 530 345-9585





APR 13 2009

CITY OF CHICO BDSD / CPSD

### **Comment Card**

(Please note that this document will be part of the public record.)

Date:

April 2, 2009

Location:

City of Chico Council Conference Room No. 1

421 Main Street, Chico, CA

Project:

State Route 99/Southgate Avenue Interchange and Corridor Study

Meeting:

Public Information Workshop #2

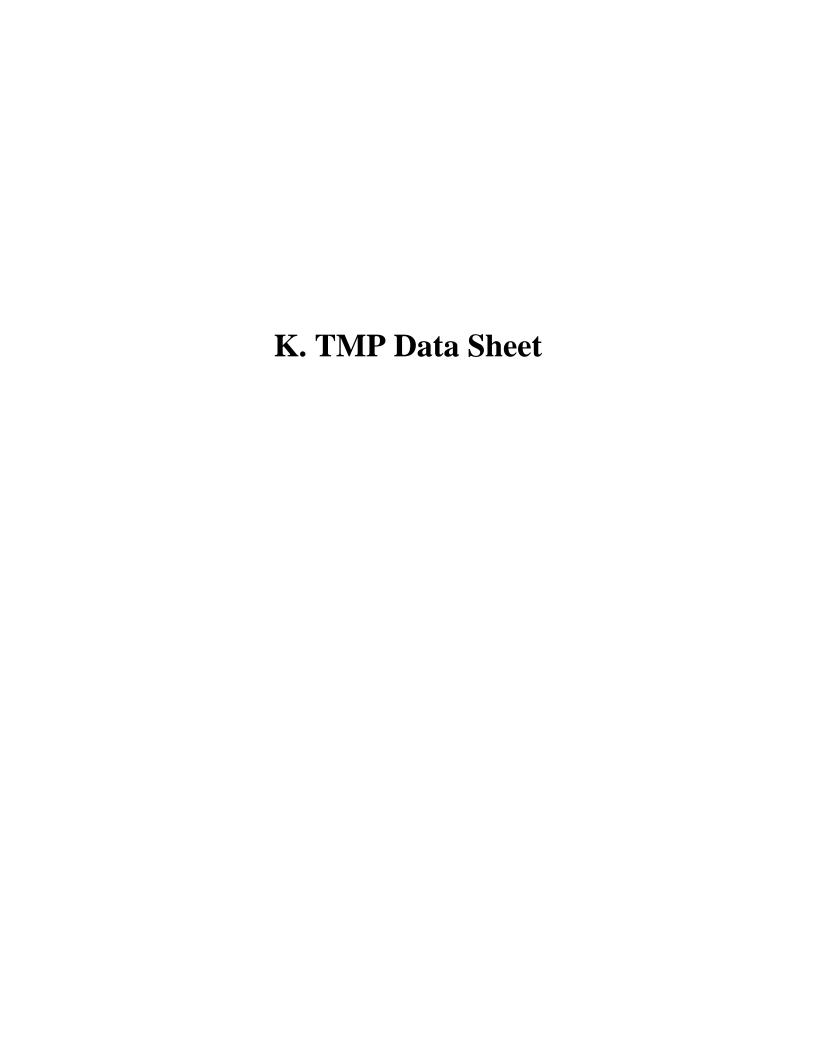
| S- 11.12 000   |  |
|--|--|
| Name (Please Print): STEVE MUDERS                          | economic de la composition della composition del |
| Mailing Address: 19 SEGA DRIVE, CHICO, CA                  | 35928  |
| Phone Number: (530) 894-2789—                              | as tiods   |
| Resident, Business, Organization, etc.: RESIDENT/HONE ONNE | r_   |

I am adamantly opposed to the future connection and expansion of Morrow Lane, Comanche Creek Culvert, Fair Street Extension Phase, Comanche Creek Bridge, and Speedway Avenue to Entler Avenue. This huge expansion phase would funnel traffic past our neighborhood which is located only two blocks away from this new freeway development...commercial vehicles, as well as commute traffic diverted from Park Avenue and the above listed roads, streets, and bridges. This traffic would funnel through Entler Avenue to Norfield and Loren Avenues where the streets are narrow and not designed for such heavy traffic. This increased traffic would greatly affect our neighborhood through noise and fuel pollution, additional traffic, lost in property value of our homes, as well as wear on our county roads. I strongly suggest that both the east and westbound lanes Park Avenue be widened and an additional freeway overcrossing be built over SR 99 linking traffic to Skyway. As a Butte County resident and tax payer, I am opposed any future development on Entler Avenue which would increase any traffic or noise pollution in our neighborhood. I feel that the City Chico, Caltrans, Butte County, and the Planning Commission are not interested in revisiting any alternate routes and only want a quick resolution in this matter. They are not concerned about the property owners who live in this neighborhood who have to live with this mess....put the traffic around your own home and not ours!

### Please submit comments by Friday, April 17, 2009

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Th Mouns 4/10/2004



### TRAFFIC MANAGEMENT PLAN CHECKLIST

**District / EA:** 03 / 4E670 **Date Prepared:** 8/19/2011

Prepared By: Jake Weir

Stage of Project: PSR

Co.-Rte-KP: BUT-99- R28.8/29.9

Description: SR 99 / Southgate Avenue

Interchange

| 7. |           | 0.000    |             |                | Interchange |  |
|----|-----------|----------|-------------|----------------|-------------|--|
|    | COMPLETED | REQUIRED | RECOMMENDED | NOT APPLICABLE | COMMENTS    |  |

### 1.0 Public Information

- 1.1 Brochures and Mailers
- 1.2 Media Releases (& minority media sources)
- 1.3 Paid Advertising
- 1.4 Public Information Center
- 1.5 Public Meetings/Speakers Bureau
- 1.6 Project Telephone Hotline
- 1.7 Local cable TV and News
- 1.8 Traveler Information Systems (CHIN/Internet)
- 1.9 Project Web Page

### 2.0 Motorist Information Strategies

- 2.1 Changeable Message Signs
- 2.2 Trailer CMS's
- 2.3 Ground Mounted Signs
- 2.4 Commercial Traffic Signs
- 2.5 Highway Advisory Radio (fixed and mobile)
- 2.6 Planned Lane Closure Web Site
- 2.7 Radar Speed Message Sign

### 3.0 Incident Management

- 3.1 Call Boxes
- 3.2 COZEEP or MAZEEP
- 3.3 Freeway Service Patrol
- 3.4 Traffic Surveillance Stations (loops or CCTV)
- 3.5 911 Cellular Calls
- 3.6 Transportation Management Center
- 3.7 Traffic Control Inspector
- 3.8 CHP Officer in TMC during construction
- 3.9 Traffic Management Teams
- 3.10 On-site Traffic Advisor (contractor)
- 3.11 CHP Helicopter

### 4.0 Construction Strategies

- 4.1 Incentive/Disincentive Clauses
- 4.2 Delay damage clause
- 4.3 Off peak/Night work
- 4.4 Weekend Work
- 4.5 Planned Lane/Ramp Closures
- 4.6 Project Phasing
- 4.7 Temporary Traffic Screens
- 4.8 Total Facility Closure

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| COMPLETED | REQUIRED                  | RECOMMENDED | NOT APPLICABLE                | COMMENTS   |
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|           |                           |             | X                             |  |

4.9 Truck Traffic Restrictions

4.10 Variable Lanes

4.11 Extended Weekend Closures

4.12 Reduced Speed Zones

4.13 Coordination with adjacent construction

4.14 Traffic Control Improvements

4.15 Contingency Plans

4.15.1 Material Plant on standby

4.15.2 Extra Critical Equipment on site

4.15.3 Material Testing Plan

4.15.4 Alternate Material on site (In case of failure or major delays)

4.15.5 Emergency Detour Plan

4.15.6 Emergency Notification Plan

4.15.7 Weather Conditions Plan

4.15.8 Emergency Funding Plan

4.15.9 Delay Timing and Documentation Plan

4.15.10 Late Closure Reopening Notification

4.16 Ramp metering

4.17 HOV Lanes/ramps

4.18 Signal timing modification

### 5.0 Demand Management

- 5.1 HOV Lanes/Ramps
- 5.2 Park-and-Ride Lots
- 5.3 Parking Management/Pricing
- 5.4 Rideshare Incentives
- 5.5 Rideshare Marketing
- 5.6 Transit, Train, or Light-Rail Incentives
- 5.7 Transit Service Improvements
- 5.8 Variable Work Hours
- 5.9 Telecommute

### 6.0 Alternate Route Strategies

- 6.1 Ramp Closures
- 6.2 Street Improvements
- 6.3 Reversible Lanes
- 6.4 Temporary Lanes or Shoulders Use
- 6.5 Freeway to freeway connector closures

### 7.0 Other Strategies

- 7.1 Application of new technology
- 7.2 Improved specifications
- 7.3 Staff Training/Development
- 7.4 Upgraded Equipment

Approved by (Concurrance Only):

Sergio Aceves, Chief of Traffic Management Branch