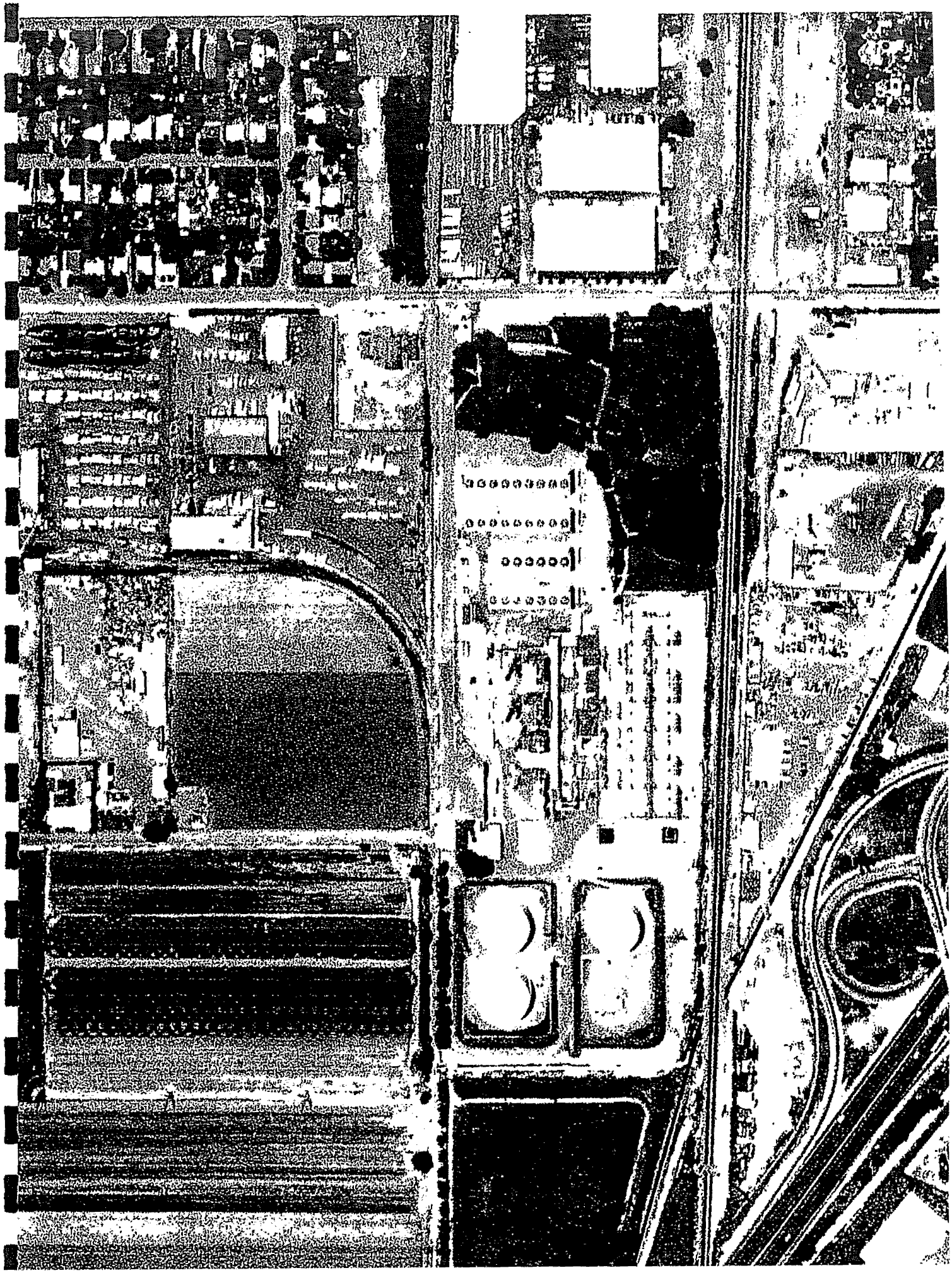
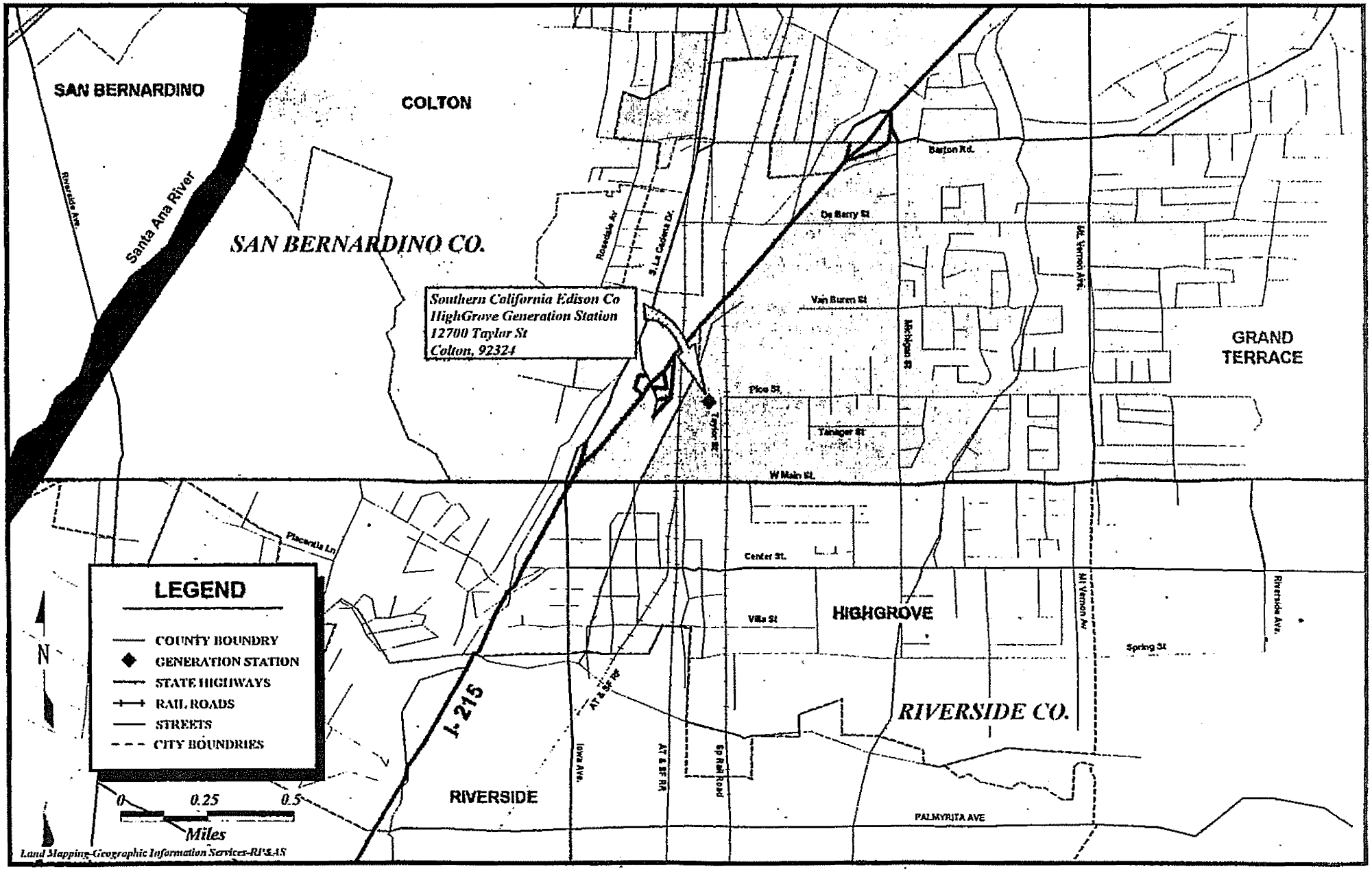
DOCKETED	
Docket Number:	06-AFC-02
Project Title:	High Grove Power Project AES 300 Megawatt Simple Cycle Power Plant, City of Grand Terrance San Bernardino County
TN #:	233647-13
Document Title:	Application for Certification AES Highgrove PT 15
Description:	Document was on proceeding webpage and is now moved over to the docket log.
Filer:	Raquel Rodriguez
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	6/25/2020 11:41:58 AM
Docketed Date:	6/25/2020




SAN BERNARDINO
COLTON
Santa Ana River
Riverside Ave
SAN BERNARDINO CO.
Southern California Edison Co
HighGrove Generation Station
12700 Taylor St
Colton, 92324
Barton Rd.
De Berry St
Van Buren St
Pico St
Tanager St
W Main St
Placentia Ln
Center St.
Villa St
HIGHGROVE
Mt Vernon Av
Spring St
Riverside Ave.
GRAND TERRACE
RIVERSIDE CO.
I-215
RIVERSIDE
PALMYRITA AVE
LEGEND
COUNTY BOUNDRY
GENERATION STATION
STATE HIGHWAYS
RAIL ROADS
STREETS
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N
0
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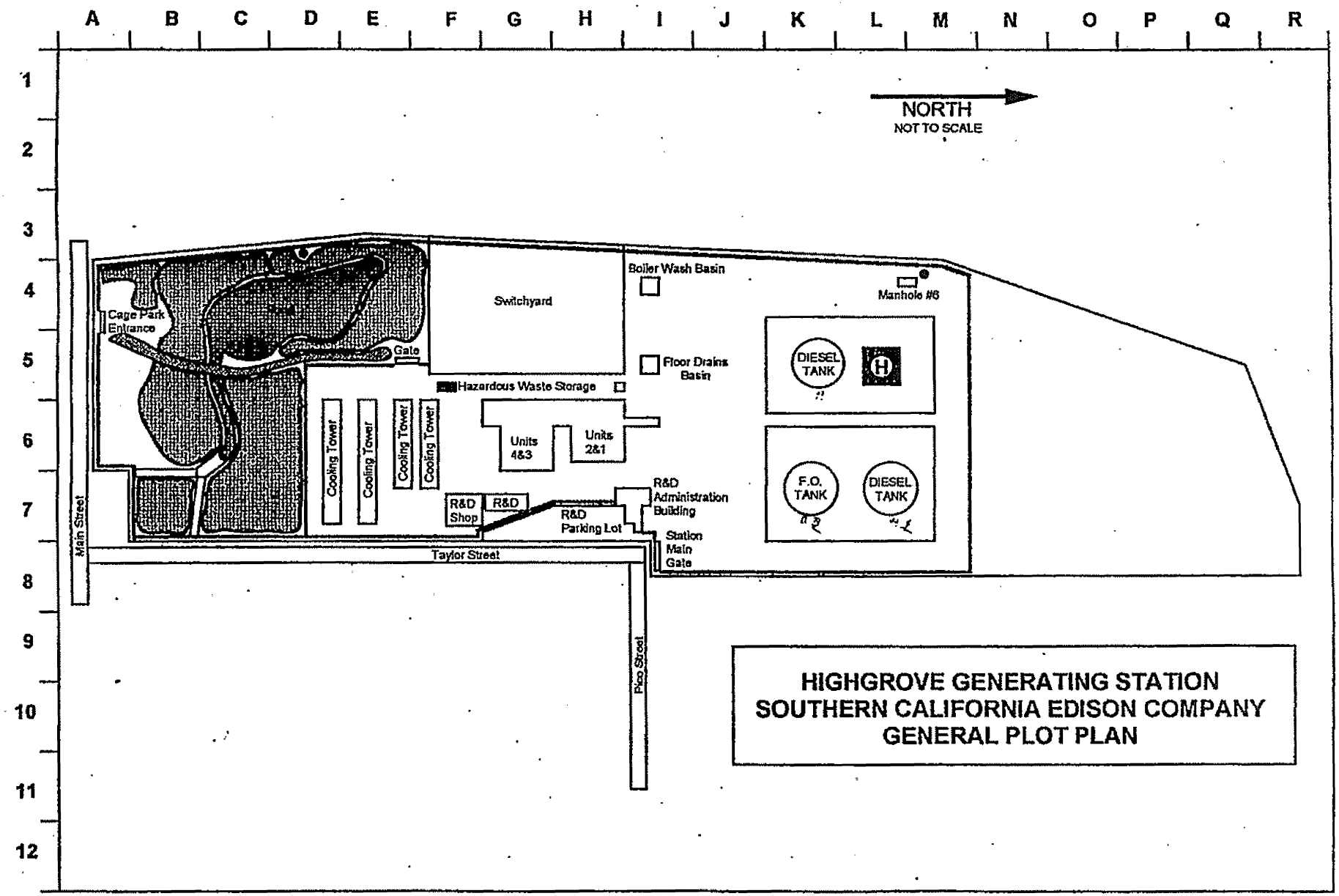
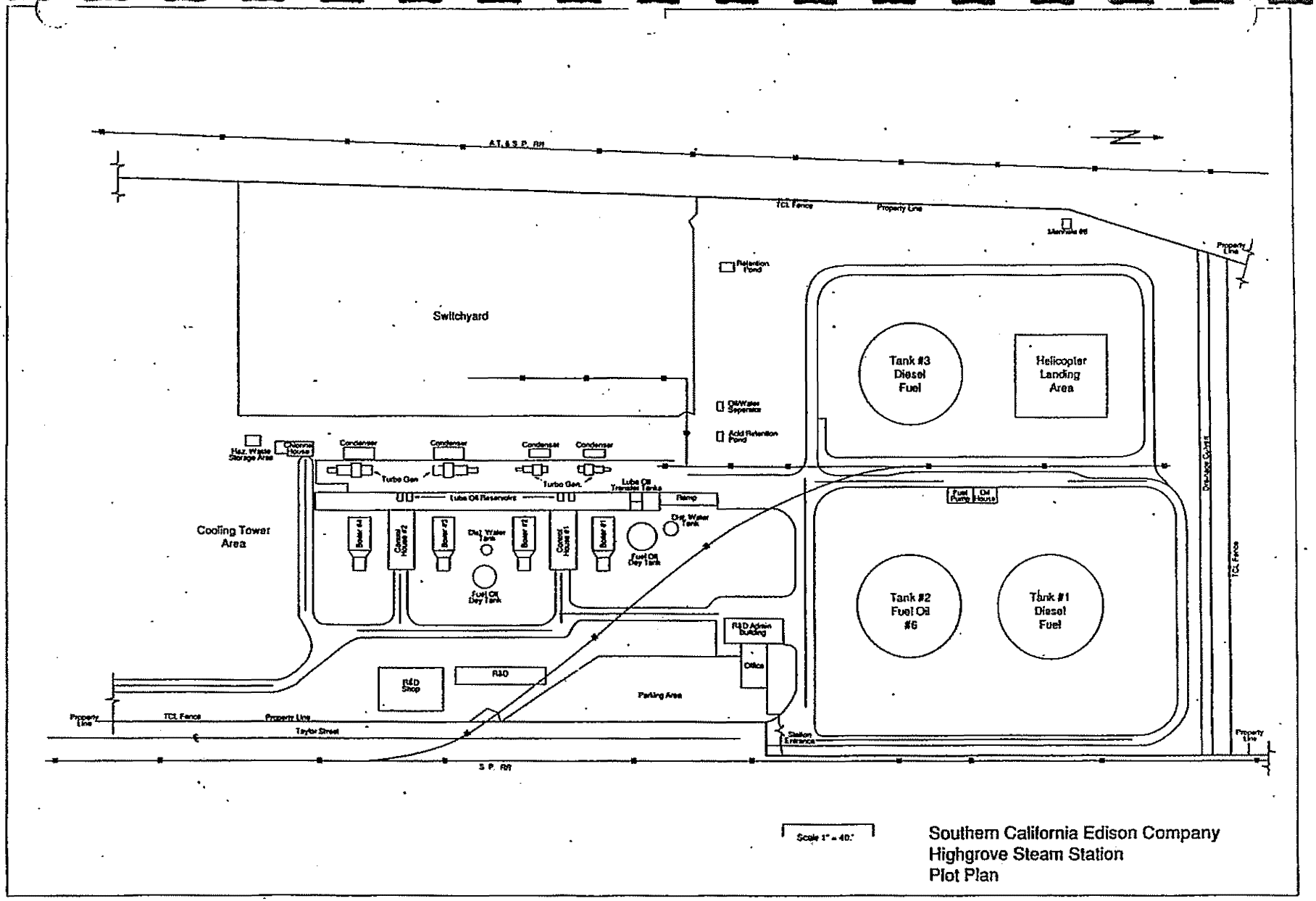
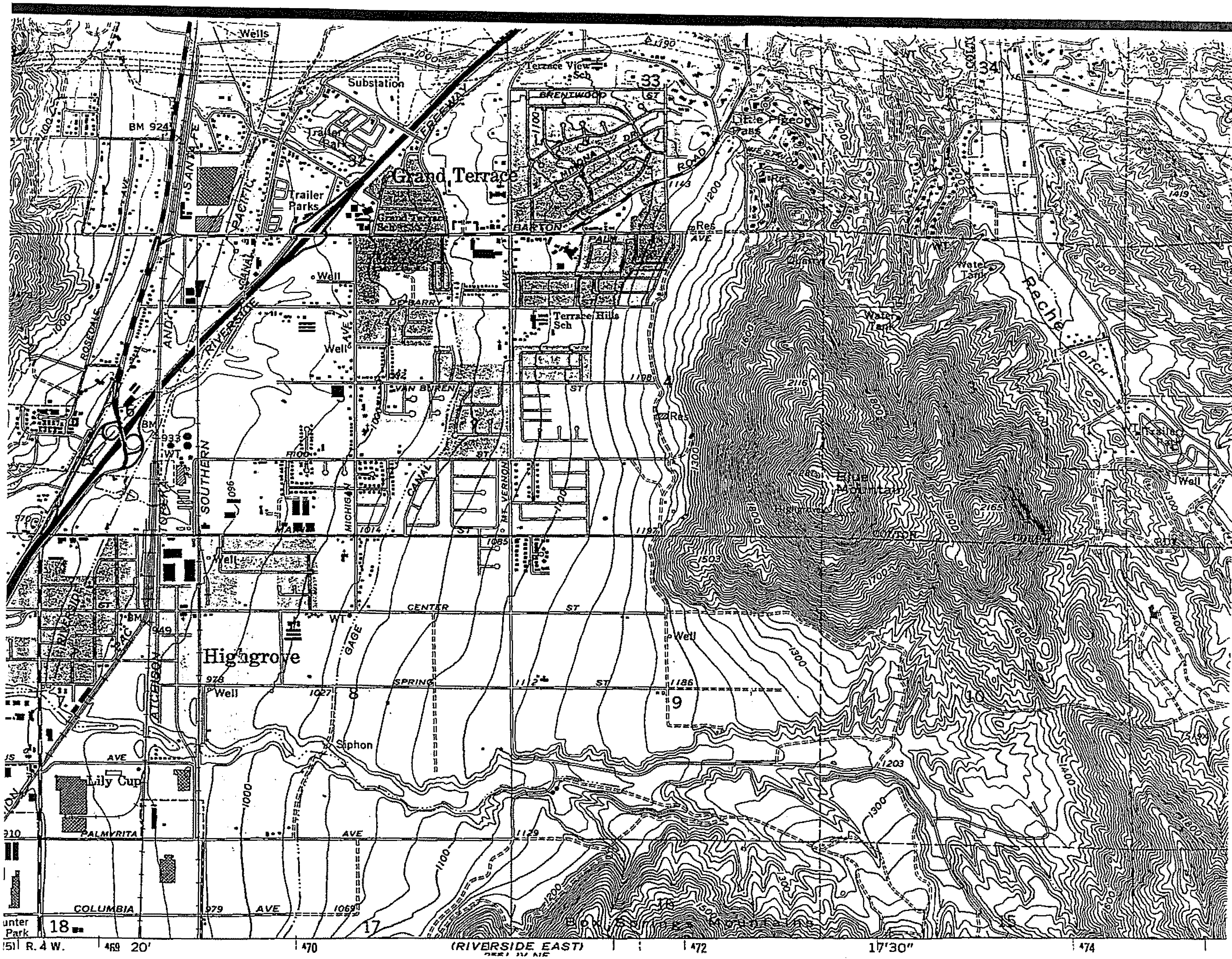
Land Mapping-Geographic Information Services-RP&AS

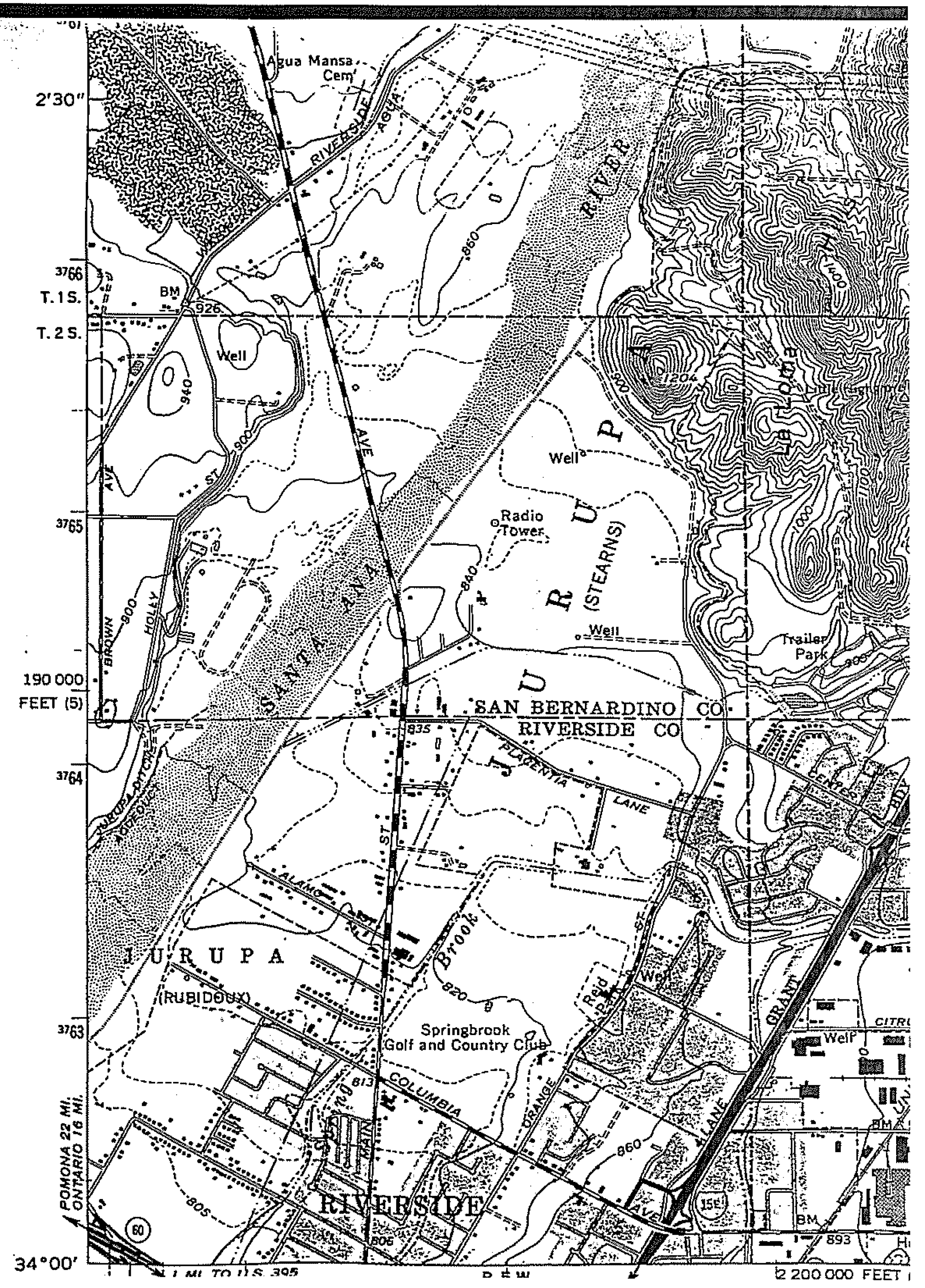

A B C D E F G H I J K L M N O P Q R
1 2 3 4 5 6 7 8 9 10 11 12
NORTH
NOT TO SCALE
Cage Park Entrance
Gate
Switchyard
Boiler Wash Basin
Manhole #6
Floor Drains Basin
DIESEL TANK
H
Hazardous Waste Storage
Cooling Tower
Cooling Tower
Cooling Tower
Cooling Tower
Units 4&3
Units 2&1
F.O. TANK
DIESEL TANK
R&D Shop
R&D
R&D Parking Lot
R&D Administration Building
Station Main Gate
Main Street
Taylor Street
Pico Street
HIGHGROVE GENERATING STATION
SOUTHERN CALIFORNIA EDISON COMPANY
GENERAL PLOT PLAN



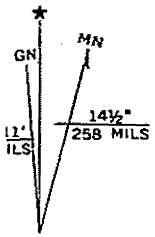
Southern California Edison Company
Highgrove Steam Station
Plot Plan



Wells
Substation
Terrace View Sch
33
34
BRENTWOOD ST
Little Pigeon Pass
BM 924
SANTA FE
PACIFIC
Trailer Park
Trailer Parks
FREEWAY
Grand Terrace
Grand Terrace Sch
BARTON
ROAD
Res
AVE
Well
DE BARRY
Terrace Hills Sch
RIVERSIDE
CANAL
ROSEDALE
AND
VAN BUREN
ST
Res
Reche
DITCH
Water Tank
Well
BM
933
WT
SOUTHERN
MICHIGAN
MT VERNON
MAIN
Blue Mountain
2165
2116
1503
Well
CENTER
WT
949
GAGE
Highgrove
978
Well
SPRING
1027
8
1112
1186
9
10
Siphon
1203
AVE
Lily Cup
PALMYRITA
AVE
1129
COLUMBIA
979
AVE
1069
17
16
15
Box Springs Mountains
18
R. 4 W.
469
20′
470
(RIVERSIDE EAST)
472
17′30″
474



Agua Mansa Cem
2'30"
RIVERSIDE
AGUA
RIVER
T. 1 S.
T. 2 S.
BM 926
Well
AVE
ST
BROWN
HOLLY
Radio Tower
(STEARNS)
JURUPA
SANTA ANA
La Loma
Well
Trailer Park
190 000 FEET (5)
SAN BERNARDINO CO
RIVERSIDE CO
PLACENTIA LANE
ALAMO
Brook
JURUPA (RUBIDOUX)
Springbrook Golf and Country Club
COLUMBIA
ORANGE
LANE
GRANT
CITRU
RIVERSIDE
POMONA 22 MI. ONTARIO 16 MI.
34°00'
1 MI. TO U.S. 395
2 200 000 FEET
BM 893



1980 MAGNETIC NORTH
AT CENTER OF SHEET

SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

QUADRANGLE LOCATION

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

le and woodland compiled from
1979 and other source data
d checked. Map edited 1980

ension of urban areas

117°22'30"

0.5 MI. TO U.S. 60 & CALIF. 91
CORONA 16 MI.

RIVERSIDE WEST
33117 IV NW

Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1952 and planetable survey 1936–1938. Field checked 1954
Revised from aerial photographs taken 1966. Field checked 1967

Polyconic projection
10,000-foot grids based on California coordinate system, zones 5 and 6
1000-meter Universal Transverse Mercator grid ticks,
zone 11, shown in blue. 1927 North American Datum
To place on the predicted North American Datum 1983
move the projection lines 1 meter north and
83 meters east as shown by dashed corner ticks

Red tint indicates areas in which only landmark buildings are shown

Areas covered by dashed light-blue pattern
are subject to controlled inundation

There may be private inholdings within the boundaries
of the National or State reservations shown on this map

0°1
3 M

UTM GRID AND
DECLINATION

Revisions shown in purp
aerial photographs taker
This information not fiel

Purple tint indicates ext

APPENDIX B

Hazardous Materials and Petroleum Products Inventories and Locations

VI. DESCRIPTION OF FACILITIES CONTAINING OIL

There are no buried metallic storage tanks designed to store petroleum products at the station. However, there are two 100-gallon double wall tanks that are designed to contain oily water during the operation of the centrifuges. There are no other underground storage tanks at HGGS. All buried pipelines are protected from corrosion by cathodic protection.

A. FUEL OIL ONSITE STORAGE, DELIVERY, AND BOILER SYSTEMS

No. 6 fuel oil is stored in one (1) 3,360,000-gallon (80,000-barrel) fixed-roof steel tank (tank #2). Diesel fuel is stored in two 3,360,000-gallon (80,000-barrel) fixed-roof steel tanks (tanks # 1, and #3). Presently tank # 2 contains approximately 1,680,000 gallons (40,000 barrels) of fuel. Edison will not bring any more fuel into this tank. The other two tanks are used to support Edison's nuclear operations at San Onofre, CA. Two secondary containment earthen berms are constructed around the tanks. Tanks #1 and #2 are within the eastern bermed area and tank #3 is in the western bermed area. Each berm is designed to contain 110% of the volume of one tank (see Appendix J). Each tank is equipped with manually operated bottom water draw offs and roof rainwater drains. As a prevention measure, all water draw off valves are chained and padlocked. The tanks are equipped with a high liquid alarm which provides and audible and visual signal at the station's control room. The tanks do not have high liquid level pump cutoff devices to stop flow at a predetermined tank content level. However, no new fuel oil will come to the station until such device is installed at tank #2. Fuel pipeline personnel is present during diesel oil deliveries to tanks #1 and #3.

When a pipeline is not in service, or in standby service for an extended time the terminal connection at the transfer point is capped or blank-flanged, and marked as to origin. Pipe supports are properly designed to minimize abrasion and corrosion and allow for expansion and contraction.

B. FUEL OIL OFFSITE DELIVERY SYSTEM

Fuel oil is delivered to Highgrove Generating Station via trucks. No new fuel oil for electric generation will be delivered to the Station. Edison's fuel pipeline division uses the two diesel tanks for temporary storage of the product.

C. LUBRICATING OIL SYSTEM

Each of the station's generating units is equipped with one 2,150 gallon lubricating oil reservoir called lube oil reservoir tank. These reservoirs are located within the structure of the corresponding generating unit, underneath the turbine deck. Each tank is located within a pit containment structure.

New lubricating oil for station equipment is stored in two (2) 2,900 gallon storage tanks located below the turbine decks. This tanks are called lube oil transfer tanks.

The tanks associated with the lubricating oil system are equipped with a high liquid alarm which provides and audible and visual signal at the station's control room.

D. DRUMMED AND PORTABLE OIL STORAGE

New oil is stored in 55 gallon DOT approved drums in the Lube Oil Room located underneath the ramp of the power block. A maximum of 15 drums (55 gallons each) of various types of oil are stored at any one time. A floor drain leads to the station's oil/water separator.

Waste oil is stored in 55 gallon DOT approved. The drums are staged in the Hazardous Waste Storage area prior to being transported offsite by an authorized oil recycler. This area is constructed to contain any spilled product. Features include concrete curbs along the back and sides and a concrete ramp which can be crossed by loading equipment, along the front portion. No drains are located within this area.

E. MINERAL OIL SYSTEM

Mineral oil is not stored in bulk at this location. There are fifteen (15) transformers with various capacities at this station. A list of these transformers and their respective capacities are listed in Appendix A.

There are thirty three (33) circuit breakers with various capacities located in the 115 kV switchyard. A list of these circuit breakers and their respective capacities are listed in Appendix A.

F. CENTRIFUGE TANKS

The centrifuge tanks are designed to hold oily water from the centrifuge system. There are two (2) double-wall centrifuge tanks, each having one hundred-gallon capacity. These tanks are metallic, underground, double wall tanks and each one is equipped with an annular space liquid detection system. The leak detection system of each tank has a monitoring and alarm panel installed adjacent to the corresponding tank. The monitoring systems are inspected at least once per twelve hour shift and are equipped with visual and audible local alarms.

G. LIGHT OIL TANKS

There are three light oil tanks at HGGS. Two tanks were used to support the station's operations and one tank was used by Edison's Research division. The light oil tanks are no longer needed at HGGS. Station personnel will disconnect the pipelines that are connected to these tanks and the tanks will be taken out of service. The pipelines will be capped at both ends and marked as to their origin.

The light oil tank which was used by Edison's Research division is also no longer needed and will be taken out of service as described above. Edison employees who work on site, but are not part of the station's regular personnel (i.e. Research, Transmission/Substation) are familiar with the provisions of this plan and participate at the corresponding training sessions..

APPENDIX A

HIGHGROVE GENERATING STATION

INVENTORY OF STORAGE TANKS
CONTAINING PETROLEUM PRODUCTS
BY OIL PRODUCT

OIL PRODUCT	Quantity	Individual Capacity (gallons)	Total Capacity (gallons)	Location
FUEL OIL # 6				
Fixed roof storage tank	1	3,360000	3,360,000	Tank farm area
Day tank #1	1	189,000	189,000	Power block area
Day tank #2	1	235,200	235,200	Power block area
LIGHT OIL				
Tank # 1	1	3,000	3,000	South side of units 1&2
Tank # 2	1	8,000	8,000	South side of units 1&2
DIESEL FUEL				
Fixed roof tanks	2	3,360,000	3,360,000	Tank farm area
LUBE OIL				
Unit reservoir	4	2,150	8,600	Underneath corresponding turbine deck
Transfer tanks	2	2,900	5,800	Below unit 1&2 turbine deck
Transfer tanks	2	2,900	5,800	Below unit 3&4 turbine deck
GEAR OIL				
Drums	15	55	825	Lube oil shack
MINERAL OIL				
Unit 1 main transformer	1	6,800	6,800	Switch yard
Unit 1 station service transf.	1	980	980	Switch yard
Unit 1 115 kV circuit breaker	3	785	2,355	Switch yard
Unit 2 main transformer	1	6,800	6,800	Switch yard
Unit 2 station service transf.	1	980	980	Switch yard
Unit 2 115 kV circuit breaker	3	785	2,355	Switch yard
Unit 3 main transformer	1	3,570	3,570	Switch yard
Unit 3 station service transf.	1	1,129	1,129	Switch yard
Unit 3 115 kV circuit breaker	3	785	2,355	Switch yard
Unit 4 main transformer	1	2,981	2,981	Switch yard
Unit 4 station service transf.	1	1,129	1,129	Switch yard
Unit 4 115 kV circuit breaker	3	785	2,355	Switch yard
Substation circuit breaker	21	785	16,485	Switch yard
Unit auxiliary transformers	2	473	946	South side of units 1&2
Unit auxiliary transformers	2	344	688	South side of units 3&4
Station reserve transformer	1	3,185	3,185	Switch yard
Cooling towers transformers	2	344	688	Cooling towers area

SPCC - HIGHGROVE G/S

EQUIPEMENT	QTY	CAPACITY/TK (BARRELS)	(GALLONS)	TOTAL	LOCATION
HEAVY FUEL OIL					
TANK 1	1	80,000	3,360,000	3,360,000	TANK FARM
DAY TANK #1	1	4,500	189,000	189,000	SOUTH SIDE OF UNITS 1&2
DAY TANK #2	1	5,600	235,200	235,200	SOUTH SIDE OF UNITS 1&2
				3,784,200	*Gallons*
LIGHT OIL					
TANK #1	1		3,000	3,000	SOUTH SIDE OF UNITS 1&2
TANK #2			8,000	0	SOUTH SIDE OF UNITS 1&2
				3,000	*Gallons*
DIESEL FUEL					
TANK 2	1	80,000	3,360,000	3,360,000	TANK FARM
TANK 3	1	80,000	3,360,000	3,360,000	TANK FARM
				6,720,000	*Gallons*
LUBE OIL					
UNIT 1 RESERVOIR	1		2,150	2,150	UNDER TURBINE DECK
UNIT 2 RESERVOIR	1		2,150	2,150	UNDER TURBINE DECK
UNIT 3 RESERVOIR	1		2,150	2,150	UNDER TURBINE DECK
UNIT 4 RESERVOIR	1		2,150	2,150	UNDER TURBINE DECK
UNITS 1&2 TRANSFER TANKS	2		2,900	5,800	UNDER 1&2 TURBINE DECK
UNITS 3&4 TRANSFER TANKS	2		2,900	5,800	UNDER 3&4 TURBINE DECK
PORTABLE LUBE OIL (DRUMS)					
VARIOUS GRADE OF LUBE	15		55	825	LUBE OIL SHACK
				21,025	*Gallons*
TRANSFORMER/ELECTRICAL					
UNIT 1 MAIN TRANSFORMER	1		6,800	6,800	SWITCH YARD
UNIT 1 STATION SERVICE TRANSFORMEF	1		980	980	SWITCH YARD
UNIT 1 115KV CIRCUIT BREAKER	3		785	2,355	SWITCH YARD
UNIT 2 MAIN TRANSFORMER	1		6,800	6,800	SWITCH YARD
UNIT 2 STATION SERVICE TRANSFORMEF	1		980	980	SWITCH YARD
UNIT 2 115KV CIRCUIT BREAKER	3		785	2,355	SWITCH YARD
				0	
UNIT 3 MAIN TRANSFORMER	1		3,570	3,570	SWITCH YARD
UNIT 3 STATION SERVICE TRANSFORMEF	1		1,129	1,129	SWITCH YARD
UNIT 3 115KV CIRCUIT BREAKER	3		785	2,355	SWITCH YARD
UNIT 4 MAIN TRANSFORMER	1		2,981	2,981	SWITCH YARD
UNIT 4 STATION SERVICE TRANSFORMEF	1		1,129	1,129	SWITCH YARD
UNIT 4 115KV CIRCUIT BREAKER	3		785	2,355	SWITCH YARD
SUBSTATION CIRCUIT BREAKER	21		785	16,485	SWITCH YARD
UNIT 1 AUXILIARY TRANSFORMER	1		473	473	SOUTH SIDE OF UNITS 1&2
UNIT 2 AUXILIARY TRANSFORMER	1		473	473	SOUTH SIDE OF UNITS 1&2
UNIT 3 AUXILIARY TRANSFORMER	1		344	344	SOUTH SIDE OF UNITS 3&4
UNIT 4 AUXILIARY TRANSFORMER	1		344	344	SOUTH SIDE OF UNITS 3&4
STATION RESERVE TRANSFORMER	1		3,185	3,185	SWITCH YARD
COOLING TOWERS TRANSFORMER	2		344	688	
				55,781	*Gallons*

SAN BERNARDINO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS MATERIALS INVENTORY FORM
Non-trade Secret Page

FACILITY NAME: *HIGHGROVE GENERATING STATION* ITEM #: *01*

MATERIAL

Chemical Name: *HYDROGEN* CAS #: *1333740*

Common Name: *HYDROGEN* DOT #: *1049*

Physical Hazard: FIRE: *4* PRESSURE: *2400psi* REACTIVE: *0*

Health Hazard: IMMEDIATE HEALTH: *0* DELAYED HEALTH: _____

Physical State: FORM: Solid: _____ Liquid: _____ Gas: XX Dust: _____
TYPE: Pure: XX Mixture: _____

Amount and Time at facility:
Days / yr on site: *365 days*
Maximum Daily Amount: *11,820 cu.ft*
Average Daily Amount: *6,000 cu.ft*
Container Type: *Steel cylinders*
Storage Pressure: *2,400 psi* Storage Temperature (oF): *Ambient*

Unit of Measure
gals: ____ lbs: ____
cu ft: XX

Storage Location(s): H - 5 F - 5 H - 7
(Provide grid coordinate from completed facility map.)

Percent Concentration & Components

100 % H2
____ %
____ %
____ %
____ %
____ %

NOTES: (Trade name(s) / synonym(s) or other information relevant to material listed.)

MAKE COPIES OF THIS FORM AS NEEDED.

SAN BERNARDINO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS MATERIALS INVENTORY FORM
Non-trade Secret Page

FACILITY NAME: *HIGHGROVE GENERATING STATION* ITEM #: *02*

MATERIAL

Chemical Name: *NITROGEN* CAS #: *1333740*

Common Name: *NITROGEN* DOT #: *1066*

Physical Hazard: FIRE: *0* PRESSURE: *2400psi* REACTIVE: *0*

Health Hazard: IMMEDIATE HEALTH: *3* DELAYED HEALTH: _____

Physical State: FORM: Solid: _____ Liquid: _____ Gas: XX Dust: _____
TYPE: Pure: XX Mixture: _____

Amount and Time at facility:
- # Days / yr on site: *365 days*
- Maximum Daily Amount: *6,020 cu.ft*
- Average Daily Amount: *2,000 cu.ft*
- Container Type: *Steel cylinders*
- Storage Pressure: *2,400 psi* Storage Temperature (oF): *Ambient*

Unit of Measure
gals: ____ lbs: ____
cu ft: XX

Storage Location(s): H - 7
(Provide grid coordinate from completed facility map.)

Percent Concentration & Components

.100 %	N2
____ %	
____ %	
____ %	
____ %	
____ %	

NOTES: (Trade name(s) / synonym(s) or other information relevant to material listed.)

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SAN BERNARDINO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS MATERIALS INVENTORY FORM
Non-trade Secret Page

FACILITY NAME: *HIGHGROVE GENERATING STATION* ITEM #: *03*

MATERIAL

Chemical Name: *SODIUM HYPOCHLORITE* CAS #: *7681-52-9*

Common Name: *LIQUID BLEACH* DOT #: *1791*

Physical Hazard: FIRE: *0* PRESSURE: *0* REACTIVE: *0*

Health Hazard: IMMEDIATE HEALTH: *0* DELAYED HEALTH: _____

Physical State: FORM: Solid: _____ Liquid: _____ Gas: XX Dust: _____
TYPE: Pure: XX Mixture: _____

Amount and Time at facility:
- # Days / yr on site: *365 days*
- Maximum Daily Amount: *700 gals.*
- Average Daily Amount: *350 gals.*
- Container Type: *Plastic Drums*
- Storage Pressure: *Atm.* Storage Temperature (oF): *Ambient*

Unit of Measure: gals: XX lbs: _____ cu ft: _____

Storage Location(s): F - 6 _____ _____
(Provide grid coordinate from completed facility map.)

Percent Concentration & Components

NaOCl	%	12 - 15%
NaOH	%	0.5 - 1%
Chlorine	%	Balance
_____	%	_____
_____	%	_____
_____	%	_____

NOTES: (Trade name(s) / synonym(s) or other information relevant to material listed.)

MAKE COPIES OF THIS FORM AS NEEDED.

SAN BERNARDINO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS WASTE INVENTORY FORM

FACILITY NAME: *HIGHGROVE GENERATING STATION* ITEM #: *01*

WASTE

Type of Waste: *Spent / dirty 1,1,1 - Trichloroethane solvent from degreasing operations*

Waste Classification: Enter the State Waste Number (from DHS form 8022, Uniform Hazardous Waste Manifest): *211* (3-digit code)

Physical Hazard: FIRE: _____ PRESSURE: _____ REACTIVE: _____

Health Hazard: IMMEDIATE HEALTH: _____ DELAYED HEALTH: _____

Amount and Time at facility:

Maximum Daily Amount: *50 gallons *Note 1*
Average Daily Amount: *10 gallons*
Container Type: *55 gal steel drums*
Storage Pressure: *Ambient* Storage Temperature (oF): *Ambient*

Unit of Measure
gals: XX lbs: _____
cu ft: _____

Storage Location(s): F - 6 _____ _____
(Provide grid coordinate from completed facility map.)

Percent Concentration & Components

25 % 1,1,1 TRICHLOROETHANE SOLVENT

75 % PETROLEUM PRODUCT

_____ %

_____ %

_____ %

_____ %

NOTES: (Trade name(s) / synonym(s) or other information relevant to material listed.)
Note 1: During major outages or maintenance activities.

MAKE COPIES OF THIS FORM AS NEEDED.

SAN BERNARDINO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS WASTE INVENTORY FORM

FACILITY NAME: *HIGHGROVE GENERATING STATION* ITEM #: 02

WASTE

Type of Waste: *Waste paint / paint sludge from maintenance operations*

Waste Classification: Enter the State Waste Number (from DHS form 8022, Uniform Hazardous Waste Manifest): *461* (3-digit code)

Physical Hazard: FIRE: _____ PRESSURE: _____ REACTIVE: _____

Health Hazard: IMMEDIATE HEALTH: _____ DELAYED HEALTH: _____

Amount and Time at facility:

Maximum Daily Amount: *1 gallon* *Note 1*
Average Daily Amount: *1 gallon*
Container Type: *.55 gal steel drums*
Storage Pressure: *Ambient* Storage Temperature (oF): *Ambient*

Unit of Measure
gals: XX lbs: ____
cu ft: ____

Storage Location(s): F - 6 _____ _____
(Provide grid coordinate from completed facility map.)

Percent Concentration & Components

95	%	DIRT / GRIDS
5	%	DIRTY PAINT
	%	
	%	
	%	
	%	

NOTES: (Trade name(s) / synonym(s) or other information relevant to material listed.)
Note 1: During major outages or maintenance activities.

MAKE COPIES OF THIS FORM AS NEEDED.

SAN BERNARDINO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS WASTE INVENTORY FORM

FACILITY NAME: *HIGHGROVE GENERATING STATION* ITEM #: 03

WASTE

Type of Waste: *Spent halogenated solvent mixture from degreasing operations*

Waste Classification: Enter the State Waste Number (from DHS form 8022, Uniform Hazardous Waste Manifest): *213* (3-digit code)

Physical Hazard: FIRE: _____ PRESSURE: _____ REACTIVE: _____

Health Hazard: IMMEDIATE HEALTH: _____ DELAYED HEALTH: _____

Amount and Time at facility:

Maximum Daily Amount: *20 gallons *Note 1*
Average Daily Amount: *1 gallon*
Container Type: *55 gal steel drums*
Storage Pressure: *Ambient* Storage Temperature (oF): *Ambient*

Unit of Measure
gals: XX lbs: _____
cu ft: _____

Storage Location(s): F - 6
(Provide grid coordinate from completed facility map.)

Percent Concentration & Components

5 % HALOGENATED SOLVENTS

95 % PETROLEUM PRODUCTS

_____ % _____

_____ % _____

_____ % _____

_____ % _____

NOTES: (Trade name(s) / synonym(s) or other information relevant to material listed.)
Note 1: During major outages or maintenance activities.

MAKE COPIES OF THIS FORM AS NEEDED.

SAN BERNARDINO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS WASTE INVENTORY FORM

FACILITY NAME: *HIGHGROVE GENERATING STATION* ITEM #: *04*

WASTE

Type of Waste: *Asbestos containing debris from insulation replacement*

Waste Classification: Enter the State Waste Number (from DHS form 8022, Uniform Hazardous Waste Manifest): *151* (3-digit code)

Physical Hazard: FIRE: _____ PRESSURE: _____ REACTIVE: _____

Health Hazard: IMMEDIATE HEALTH: _____ DELAYED HEALTH: _____

Amount and Time at facility:

Maximum Daily Amount: *1 lbs* **Note 1*
Average Daily Amount: *1 lbs*
Container Type: *Steel storage bin*
Storage Pressure: *Ambient* Storage Temperature (oF): *Ambient*

Unit of Measure
gals: _____ lbs: XX
cu ft: _____

Storage Location(s): F - 6 _____ _____
(Provide grid coordinate from completed facility map.)

Percent Concentration & Components

5	%	ASBESTOS FIBERS
95	%	INSULATION MATERIALS
	%	
	%	
	%	
	%	

NOTES: (Trade name(s) / synonym(s) or other information relevant to material listed.)
Note 1: During major outages or maintenance activities.

MAKE COPIES OF THIS FORM AS NEEDED.

SAN BERNARDINO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS MATERIALS INVENTORY FORM
Non-trade Secret Page

FACILITY NAME: *HIGHGROVE GENERATING STATION* ITEM #: *01*

MATERIAL

Chemical Name: *HYDROGEN* CAS #: *1333740*

Common Name: *HYDROGEN* DOT #: *1049*

Physical Hazard: FIRE: *4* PRESSURE: *2400psi* REACTIVE: *0*

Health Hazard: IMMEDIATE HEALTH: *0* DELAYED HEALTH: ____

Physical State: FORM: Solid: ____ Liquid: ____ Gas: XX Dust: ____
TYPE: Pure: XX Mixture: ____

Amount and Time at facility:
- # Days / yr on site: *365 days*
- Maximum Daily Amount: *11,820 cu.ft*
- Average Daily Amount: *6,000 cu.ft*
- Container Type: *Steel cylinders*
- Storage Pressure: *2,400 psi* Storage Temperature (oF): *Ambient*

Unit of Measure
gals: ____ lbs: ____
cu ft: XX

Storage Location(s): H - 5 F - 5 H - 7
(Provide grid coordinate from completed facility map.)

Percent Concentration & Components

100 %	H2
____ %	
____ %	
____ %	
____ %	
____ %	

NOTES: (Trade name(s) / synonym(s) or other information relevant to material listed.)

MAKE COPIES OF THIS FORM AS NEEDED.

SOUTHERN CALIFORNIA EDISON
MATERIAL SAFETY DATA SHEET
(EXTRACTED FROM VENDOR INFORMATION)
DATE OF VENDOR MSDS
10/25/89

I PRODUCT IDENTIFICATION

Trade Name:	HYDROGEN
Synonyms:	WATER GAS, NORMAL HYDROGEN
Chemical Family:	INORGANIC FLAMMABLE GAS
Molecular Formula:	H2
Manufacturers Name:	AIRCO, DIV. OF THE BOC GROUP, INC
Mailing Address:	575 MOUNTAIN AVE., MURRAY HILL, NEW JERSEY 07974
Phone Number:	(201) 464-8100
DOT ID/ NFPA RATING:	FLAMMABLE GAS; UN 1049, HEALTH 0; FIRE 4; REACTIVITY 0

II HAZARDOUS INGREDIENTS

Component:	CAS. Reg. No.	Wt. %	TLV (units)	TWA (unit
HYDROGEN	1333-74-0	100		

III PHYSICAL PROPERTIES

Vapor Density (air=1):	0.07
Vapor Pressure (mm hg):	GAS
Solubility in Water:	SLIGHT
Boiling Point (°F):	-423
Melting Point (°F):	434.8
Evaporation Rate:	
Appearance and Odor:	COLORLESS, ODORLESS, HIGHLY FLAMMABLE GAS

IV FIRE AND EXPLOSION

Flash Point (method):	-250F
Flamable Limits (% by vol.):	U-75 L4.0
Fire Fighting:	WATER, CARBON DIOXIDE, DRY CHEMICAL
	STOP FLOW OF HYDROGEN. COOL SURROUNDING CONTAINERS WITH WATER SPRAY.
	HYDROGEN BURNS WITH AN ALMOST INVISIBLE FLAME OF RELATIVELY LOW THERMAL RADIATION
	ELECTRICAL CLASSIFICATION: CLASS 1, GROUP B
Unusual Hazards:	HYDROGEN IS VERY LIGHT AND RISES VERY RAPIDLY IN AIR. SHOULD A HYDROGEN FIRE BE EXTINGUISHED
	AND THE FLOW OF GAS CONTINUE, INCREASE VENTILATION TO PREVENT AN EXPLOSION HAZARD.

V HEALTH HAZARDS

Effects of Overexposure

Inhalation:	HYDROGEN IN A SIMPLE ASPHYXIANT. PERSON WILL BECOME UNCONCIOUS.
Eyes:	
Skin:	
Ingestion:	

First Aid

Inhalation:	REMOVE TO FRESH AIR, ADMINISTER ARTIFICIAL RESPIRATION IF BREATHING STOPPED.
	SEEK MEDICAL ATTENTION
Eyes:	NOT LIKELY A PROBLEM
Skin	NOT LIKELY A PROBLEM
Ingestion:	NOT LIKELY A PROBLEM
Toxicology:	NO CHRONIC EFFECTS WERE LISTED

VI REACTIVITY DATA

Stability (yes or no):	YES
Conditions to Avoid:	CAN IGNITE WHEN DISCHARGED FOR HIGH PRESSURE SOURCE
Polymerization:	WILL NOT OCCUR
Incompatability:	OXIDIZING MATERIALS
Hazardous Decomposition:	NONE

VII SPILL OR LEAK PROCEDURE

USE PROPER PROTECTIVE EQUIPMENT, SHUT DOWN SOURCE OF HYDROGEN, PREVENT MATERIAL FROM COMING INTO CONTACT WITH SOURCES OF IGNITION. DO NOT ATTEMPT TO DISPOSE OF RESIDUAL OR UNUSED QUANTITIES. LABEL AND SEND TO AIRCO FOR PROPER DISPOSAL. KEEP ALL NON-ESSENTIAL PERSONNEL AWAY AT ALL TIMES

VIII SPECIAL HANDLING

Ventilation:	EXPLOSION PROOF SYSTEM TO CONTROL BELOW 2% v/v
Respiratory Protection:	EMERGENCY-SELF CONTAINED BREATHING APPARATUS
Eye Protection:	SAFETY GLASSES
Gloves and Clothing:	CLEAN BODY COVERING CLOTHING
Other:	

STORE BELOW 125 F. STORE CYLINDERS UPRIGHT. POST NO SMOKING OR OPEN FLAME SIGNS

SAN BERNARDINO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS MATERIALS INVENTORY FORM
Non-trade Secret Page

FACILITY NAME: *HIGHGROVE GENERATING STATION* ITEM #: *02*

MATERIAL

Chemical Name: *NITROGEN* CAS #: *1333740*

Common Name: *NITROGEN* DOT #: *1066*

Physical Hazard: FIRE: *0* PRESSURE: *2400psi* REACTIVE: *0*

Health Hazard: IMMEDIATE HEALTH: *3* DELAYED HEALTH: _____

Physical State: FORM: Solid: _____ Liquid: _____ Gas: XX Dust: _____
TYPE: Pure: XX Mixture: _____

Amount and Time at facility:
- # Days / yr on site: *365 days*
- Maximum Daily Amount: *6,020 cu.ft*
- Average Daily Amount: *2,000 cu.ft*
- Container Type: *Steel cylinders*
- Storage Pressure: *2,400 psi* Storage Temperature (oF): *Ambient*

Unit of Measure
gals: _____ lbs: _____
cu ft: XX

Storage Location(s): H - 7 _____ _____
(Provide grid coordinate from completed facility map.)

Percent Concentration & Components

100	%	N2
	%	
	%	
	%	
	%	
	%	

NOTES: (Trade name(s) / synonym(s) or other information relevant to material listed.)

MAKE COPIES OF THIS FORM AS NEEDED.

SOUTHERN CALIFORNIA EDISON
MATERIAL SAFETY DATA SHEET
(EXTRACTED FROM VENDOR INFORMATION)
DATE OF VENDOR MSDS
8/24/89

I PRODUCT IDENTIFICATION

Trade Name:	NITROGEN
Synonyms:	N/A
Chemical Family:	INERT GAS
Molecular Formula:	N2
Manufacturers Name:	BIG THREE INDUSTRIES, INC.
Mailing Address:	P.O. BOX 3047, HOUSTON, TX 77253
Phone Number:	(713) 896-2140
DOT ID/ NFPA RATING:	1977/ HEALTH 3; FIRE 0; REACTIVITY 0

II HAZARDOUS INGREDIENTS

Component:	Cas. Reg. No.	Wt. %	TLV (PPM)	TWA(UNITS)
NITROGEN	7727-37-9	100		
SIMPLE ASPHYXIANT				

III PHYSICAL PROPERTIES

Vapor Density (air=1):	0.967
Vapor Pressure (mm hg):	GAS
Specific Gravity (water=1):	GAS
Solubility in Water:	NEGLIGIBLE
Boiling Point (°F):	-320.5
% Volatiles by volume	100
Evaporation Rate:	N/A
Appearance and Odor:	COLORLESS GAS AT NORMAL TEMP. AND PRESSURE, ODORLESS
Detection Methods:	

IV FIRE AND EXPLOSION

Flash Point (method):	N/A
Flam. Limits (% by vol.):	N/A
Fire Fighting:	NITROGEN CANNOT CATCH FIRE. USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.
	CONTAINERS TEMPERATURE SHOULD BE <125 F OR THEY MIGHT RUPTURE
Unusual Hazards:	EVACUATE ALL PERSONNEL FROM DANGER AREA. IMMEDIATELY COOL CONTAINERS WITH WATER SPRAY UNTIL COOL. MOVE CONTAINERS AWAY FROM FIRE IF WITHOUT RISK.

V HEALTH HAZARDS

Effects of Overexposure

Inhalation:	ASPHYXIANT. HEADACHE, DROWSINESS, VOMITING AND UNCONSCIOUSNESS.
Eyes:	NONE FROM VAPOR. LIQUID MAY YIELD FROSTBITE
Skin:	LIQUID MAY CAUSE FROSTBITE
Ingestion:	NONE FROM VAPOR. LIQUID MAY YIELD FROSTBITE.

First Aid

Inhalation:	REMOVE TO FRESH AIR. GIVE OXYGEN OR CPR IF NEEDED. CALL A PHYSICIAN
Eyes:	SPLASH CONTAMINATION, FLUSH EYES WITH WATER 15 MINUTES. SEE DOCTOR IMMEDIATELY
Skin:	LIQUID EXPOSURE WARM FROSTBITE AREA WITH WARM WATER (<105 F). CALL DOCTOR FOR LARGE EXPOSURE.
Ingestion:	NOT EXPECTED TO BE A PROBLEM
Toxicology:	NO CHRONIC EFFECTS WERE LISTED

VI REACTIVITY DATA

Stability (yes or no):	YES
Conditions to Avoid:	ENCLOSED SPACES. GAS CAN CAUSE RAPID SUFFOCATION
Polymerization:	WILL NOT OCCUR
Incompatibility:	CAN REACT VIOLENTLY WITH LITHIUM, NEODYMIUM, TITANIUM, OZONE
Hazardous Decomposition:	NONE

VII SPILL OR LEAK PROC.

SHUT OFF CYLINDER, IF WITHOUT RISK. VENTILATE AREA OF LEAK OR MOVE LEAKING CONTAINER TO WELL VENTILATED AREA. USE SELF-CONTAINED BREATHING APPARATUS FOR CONFINES AREAS.

VIII SPECIAL HANDLING

Ventilation:	LOCAL EXHAUST PREFERRED
Respiratory Protection:	NONE
Eye Protection:	SAFETY GLASSES/CHEMICAL GOGGLES
Gloves and Clothing:	GLOVES FOR CYLINDER HANDLING AND POTENTIAL LIQUID HANDLING
Other:	

SAN BERNARDINO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS MATERIALS INVENTORY FORM
Non-trade Secret Page

FACILITY NAME: *HIGHGROVE GENERATING STATION* ITEM #: *03*

MATERIAL

Chemical Name: *SODIUM HYPOCHLORITE* CAS #: *7681-52-9*

Common Name: *LIQUID BLEACH* DOT #: *1791*

Physical Hazard: FIRE: *0* PRESSURE: *0* REACTIVE: *0*

Health Hazard: IMMEDIATE HEALTH: *0* DELAYED HEALTH: _____

Physical State: FORM: Solid: _____ Liquid: _____ Gas: XX Dust: _____
TYPE: Pure: XX Mixture: _____

Amount and Time at facility:
Days / yr on site: *365 days*
Maximum Daily Amount: *700 gals.*
Average Daily Amount: *350 gals.*
Container Type: *Plastic Drums*
Storage Pressure: *Atm.* Storage Temperature (oF): *Ambient*

Unit of Measure
gals: XX lbs: _____
cu ft:

Storage Location(s): F - 6
(Provide grid coordinate from completed facility map.)

Percent Concentration & Components

NaOCl	%	12 - 15%
NaOH	%	0.5 - 1%
Chlorine	%	Balance
_____	%	_____
_____	%	_____
_____	%	_____

NOTES: (Trade name(s) / synonym(s) or other information relevant to material listed.)

MAKE COPIES OF THIS FORM AS NEEDED.

SOUTHERN CALIFORNIA EDISON
MATERIAL SAFETY DATA SHEET
(EXTRACTED FROM VENDOR INFORMATION)
DATE OF VENDOR MSDS
12/1/85

I PRODUCT IDENTIFICATION

Trade Name:	SODIUM HYPOCHLORITE / JAVEL WATER BLEACH
Synonyms:	SODA BLEACH
Chemical Family:	OXIDIZING AGENT (HYPOCHLORITE)
Molecular Formula:	NaOCl
Manufacturers Name:	GPS INDUSTRIES
Mailing Address:	13280 Amar Road, City of Industry, CA 91746
Phone Number:	1-800-435-6310
DOT ID/ NFPA RATING:	UN1791

II HAZARDOUS INGREDIENTS

Component:	CAS. Reg. No.	Wt. %	TLV (units)	TWA (ur
Sodium hypochlorite	7681-52-9	12.5-15		
Chlorine	7782-50-5	14.4-17.8		
Sodium Hydroxide	1310-73-2	.5-1		
Water	7732-18-5	Balance		

III PHYSICAL PROPERTIES

Vapor Density (air=1):	N/A
Vapor Pressure (mm hg):	Vapor pressure of water plus decomposition product vapor pressure
Specific Gravity (water=1):	1.2 - 1.24
Solubility in Water:	Complete
Boiling Point (°F):	110 degree C for 15% NaOCl
PH:	Approximately 12
Appearance and Odor:	Light yellow-green and pungent like chlorine
Detection Methods:	

IV FIRE AND EXPLOSION

Flash Point (method):	Nonflammable
Flam. Limits (% by vol.):	N/A
Fire Fighting:	Avoid fumes from spilled or exposed liquid, dilute copiously, ventilate and be prepared to use repiratory protection if needed. Acid contamination will produce very irritating fumes similar to chlorine gas.
Unusual Hazards:	NONE LISTED

V HEALTH HAZARDS

Effects of Overexposure

Inhalation:	Fumes from spills are very irritating to mucous membranes.
Eyes:	Severe irritation.
Skin:	Irritant, reddening of skin, skin damage.
Ingestion:	Causes irritation of membranes of the mouth and throat, stomach pan and possible ulceration.

First Aid

Inhalation:	Remove person to fresh air.
Eyes:	Copious eye wash with water for at least 15 minutes. Consult an Eye Specialist immediately.
Skin:	Immediately wash in flowing water for 30 minutes. Remove contaminated clothing, get prompt medical attention.
Ingestion:	Do not induce vomitting.
Toxicology:	Constant irritant to eyes, throat.

VI REACTIVITY DATA

Stability (yes or no):	Yes
Conditions to Avoid:	Heat, light exposure, and contamination with heavy metals.
Polymerization:	Will not occur
Incompatibility:	Heavy metals (nickel, cobalt, copper and iron.), reducing agents, organics, ether, ammonia and acids.
Hazardous Decomposition:	Hypochlorous acid, chlorine, hydorchloric acid.

VII SPILL OR LEAK PROC.

Only trained and properly protected personnel should be involved in spills clean-up operations.
Small spills should be carefully diluted and rinsed to the retention basins.

VIII SPECIAL HANDLING

Ventilation:	No special ventilation required unless bleach is exposed to decomposition.
Respiratory Protection:	When fumes are present, use NIOSH approved respirator with acid type canister.
Eye Protection:	Chemical goggles / safety glasses and full face shield
Gloves and Clothing:	Plastic or neoprene gloves, rubber apron.
Other:	Use rubber apron to protect body from any splashing conditions.
	Safety showers and eyewash fountains should be available in storage area.

SAN BERNARDINO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS WASTE INVENTORY FORM

FACILITY NAME: *HIGHGROVE GENERATING STATION* ITEM #: *01*

WASTE

Type of Waste: *Spent / dirty 1,1,1 - Trichloroethane solvent from degreasing operations*

Waste Classification: Enter the State Waste Number (from DHS form 8022, Uniform Hazardous Waste Manifest): *211* (3-digit code)

Physical Hazard: FIRE: _____ PRESSURE: _____ REACTIVE: _____

Health Hazard: IMMEDIATE HEALTH: _____ DELAYED HEALTH: _____

Amount and Time at facility:

Maximum Daily Amount: *50 gallons *Note 1*
Average Daily Amount: *10 gallons*
Container Type: *55 gal steel drums*
Storage Pressure: *Ambient* Storage Temperature (oF): *Ambient*

Unit of Measure
gals: XX lbs: ____
cu ft: ____

Storage Location(s): F - 6 _____ _____
(Provide grid coordinate from completed facility map.)

Percent Concentration & Components

25 % 1,1,1 TRICHLOROETHANE SOLVENT
75 % PETROLEUM PRODUCT
____ % _____
____ % _____
____ % _____
____ % _____

NOTES: (Trade name(s) / synonym(s) or other information relevant to material listed.)
Note 1: During major outages or maintenance activities.

MAKE COPIES OF THIS FORM AS NEEDED.

SAN BERNARDINO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS WASTE INVENTORY FORM

FACILITY NAME: *HIGHGROVE GENERATING STATION* ITEM #: *02*

WASTE

Type of Waste: *Waste paint / paint sludge from maintenance operations*

Waste Classification: Enter the State Waste Number (from DHS form 8022, Uniform Hazardous Waste Manifest): *461* (3-digit code)

Physical Hazard: FIRE: _____ PRESSURE: _____ REACTIVE: _____

Health Hazard: IMMEDIATE HEALTH: _____ DELAYED HEALTH: _____

Amount and Time at facility:

Maximum Daily Amount: *1 gallon* *Note 1*
Average Daily Amount: *1 gallon*
Container Type: *55 gal steel drums*
Storage Pressure: *Ambient* Storage Temperature (oF): *Ambient*

Unit of Measure
gals: XX lbs: ____
cu ft: ____

Storage Location(s) F - 6 _____ _____
(Provide grid coordinate from completed facility map.)

Percent Concentration & Components

95	%	DIRT / GRIDS
5	%	DIRTY PAINT
	%	
	%	
	%	
	%	

NOTES: (Trade name(s) / synonym(s) or other information relevant to material listed.)
Note 1: During major outages or maintenance activities.

MAKE COPIES OF THIS FORM AS NEEDED.

SAN BERNARDINO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS WASTE INVENTORY FORM

FACILITY NAME: *HIGHGROVE GENERATING STATION* ITEM #: *03*

WASTE

Type of Waste: *Spent halogenated solvent mixture from degreasing operations*

Waste Classification: Enter the State Waste Number (from DHS form 8022, Uniform Hazardous Waste Manifest): *213* (3-digit code)

Physical Hazard: FIRE: _____ PRESSURE: _____ REACTIVE: _____

Health Hazard: IMMEDIATE HEALTH: _____ DELAYED HEALTH: _____

Amount and Time at facility:

Maximum Daily Amount: *20 gallons *Note 1*
Average Daily Amount: *1 gallon*
Container Type: *55 gal steel drums*
Storage Pressure: *Ambient* Storage Temperature (oF): *Ambient*

Unit of Measure
gals: XX lbs: ____
cu ft: ____

Storage Location(s): F - 6 _____ _____
(Provide grid coordinate from completed facility map.)

Percent Concentration & Components

5	%	HALOGENATED SOLVENTS
95	%	PETROLEUM PRODUCTS
	%	
	%	
	%	
	%	

NOTES: (Trade name(s) / synonym(s) or other information relevant to material listed.)
Note 1: During major outages or maintenance activities.

MAKE COPIES OF THIS FORM AS NEEDED.

SAN BERNARDINO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS WASTE INVENTORY FORM

FACILITY NAME: *HIGHGROVE GENERATING STATION* ITEM #: *04*

WASTE

Type of Waste: *Asbestos containing debris from insulation replacement*

Waste Classification: Enter the State Waste Number (from DHS form 8022, Uniform Hazardous Waste Manifest): *151* (3-digit code)

Physical Hazard: FIRE:_____ PRESSURE:_____ REACTIVE:_____

Health Hazard: IMMEDIATE HEALTH:_____ DELAYED HEALTH:_____

Amount and Time at facility:

Maximum Daily Amount: *1 lbs* **Note 1*
Average Daily Amount: *1 lbs*
Container Type: *Steel storage bin*
Storage Pressure: *Ambient* Storage Temperature (oF): *Ambient*

Unit of Measure
gals:_____ lbs: XX
cu ft:_____

Storage Location(s) F - 6 _____ _____
(Provide grid coordinate from completed facility map.)

Percent Concentration & Components

5	%	ASBESTOS FIBERS
95	%	INSULATION MATERIALS
	%	
	%	
	%	
	%	

NOTES: (Trade name(s) / synonym(s) or other information relevant to material listed.)
Note 1: During major outages or maintenance activities.

MAKE COPIES OF THIS FORM AS NEEDED.

APPENDIX C

Detailed Environmental Records

ERIIS RADIUS STATISTICAL PROFILE
State: CA

ERIIS Report #89517A

May 28, 1996

Site:
12700 TAYLOR STREET
COLTON, CA 92324

Latitude: 34.022400
Longitude: -117.331549

Database	Radius (Mi)	Property	Property-1/4	1/4-1/2	1/2-1	>1	TOTAL
NPL	1		0	0	0		0
RCRIS_TS	1		0	0	0		0
CERCLIS	1		1	0	0		1
NFRAP	1		0	0	0		0
RCRIS_LG	1		2	0	1		3
RCRIS_SG	1		0	0	4		4
DOCKET	1		0	0	0		0
TRI	1		0	0	0		0
FRDS	1		0	0	0		0
ERNS	1		0	0	0		0
FINDS	.25		2				2
OPENDUMP		NR	NR	NR	NR	NR	0
NUCLEAR		NR	NR	NR	NR	NR	0
HWS	1		2	3	6		11
LRST	1		0	2	4		6
SWF	1		0	0	0		0
RST	1		2	6	11		19
CORTS	1		1	0	3		4
HWIS	1		2	2	4		8
SPILLS	1		0	0	1		1
OGW	1		0	0	0		0
SWAT	1		0	0	0		0
WDS	1		1	1	0		2

Radon Zone Level: 2

Zone 2 has a predicted average indoor screening level > = 2 pCi/L and < = 4 pCi/L

A Radon Zone should not be used to determine if individual homes need to be tested for radon. The EPA's Office of Radiation and Indoor Air (202/233-9320) recommends that all homes be tested for radon, regardless of geographic location or the zone designation in which the property is located.

A property is defined as a .05 mile buffer around the site's latitude and longitude.

A blank radius count indicates that the database was not searched by this radius per client instructions.

NR in a radius count indicates that the database cannot be reported by this search criteria due to insufficient and/or inaccurate addresses reported by a federal/state agency.

ERIIS RADIUS STATISTICAL PROFILE
State: CA

ERIIS Report #89517A — May 28, 1996

Site:
12700 TAYLOR STREET
COLTON, CA 92324

Latitude: 34.022400
Longitude: -117.331549

Database	Radius (Mi)	Property	Property-1/4	1/4-1/2	1/2-1	>1	TOTAL
			13	14	34	0	61

Radon Zone Level: 2

Zone 2 has a predicted average indoor screening level > = 2 pCi/L and < = 4 pCi/L

A Radon Zone should not be used to determine if individual homes need to be tested for radon. The EPA's Office of Radiation and Indoor Air (202/233-9320) recommends that all homes be tested for radon, regardless of geographic location or the zone designation in which the property is located.

A property is defined as a .05 mile buffer around the site's latitude and longitude.

A blank radius count indicates that the database was not searched by this radius per client instructions.

NR in a radius count indicates that the database cannot be reported by this search criteria due to insufficient and/or inaccurate addresses reported by a federal/state agency.

ERIIS SUMMARY OF PLOTTABLE SITES

ERIIS Report #89517A — May 28, 1996

ERIIS ID.	FACILITY/ADDRESS	DATABASE	DISTANCE FROM SITE	DIRECTION FROM SITE	MAP ID
0 - 1/4 Miles					
06041003944	GENERATING STATION,HIGHGROVE 12700 TAYLOR ST COLTON, CA 92313-5828 COUNTY: SAN BERNARDINO	WDS	0.061 Mi	NORTHEAST	3944
06010026479	HIGHGROVE GENERATING STATION 12700 TAYLOR ST COLTON, CA 92324-5828 COUNTY: SAN BERNARDINO	RST	0.061 Mi	NORTHEAST	6479
06003000473	SO CALIF EDISON HIGHGROVE GEN 12700 TAYLOR ST COLTON, CA 92313-5828 COUNTY: SAN BERNARDINO	FINDS	0.061 Mi	NORTHEAST	473
06040017670	SO CALIF EDISON HIGHGROVE GEN STATION 12700 TAYLOR ST COLTON, CA 92313-5828 COUNTY: SAN BERNARDINO	HWS	0.061 Mi	NORTHEAST	7670
06055009673	SO CALIF EDISON HIGHGROVE GENER STE 12700 TAYLOR ST COLTON, CA 92324-5828 COUNTY: SAN BERNARDINO	HWIS	0.061 Mi	NORTHEAST	9673
06007000286	SO CALIF HIGHGROVE GEN STA 12700 TAYLOR ST COLTON, CA 92313-5828 COUNTY: SAN BERNARDINO	RCRIS_LG	0.061 Mi	NORTHEAST	286
06010034054	LUCKY OIL CO INC 12717 IOWA COLTON, CA 92509 COUNTY: SAN BERNARDINO	RST	0.204 Mi	NORTHWEST	4054
06040017505	K & J ENTERPRISES 21750 MAIN ST COLTON, CA 92313-5809 COUNTY: SAN BERNARDINO	HWS	0.226 Mi	SOUTHEAST	7505
06007005534	K & N PLATING 21750 MAIN ST COLTON, CA 92324-5809 COUNTY: RIVERSIDE	RCRIS_LG	0.226 Mi	SOUTHEAST	5534
06055013928	K & N PLATING 21750 MAIN ST COLTON, CA 92324-5809 COUNTY: RIVERSIDE	HWIS	0.226 Mi	SOUTHEAST	3928
06003012984	K&N PLATING 21750 MAIN ST COLTON, CA 92313-5809 COUNTY: RIVERSIDE	FINDS	0.226 Mi	SOUTHEAST	2984
06001000361	RIVERSIDE PLATING (K&N PLATING) 21750 MAIN ST GRAND TERRACE, CA 92324 COUNTY: SAN BERNARDINO	CERCLIS	0.226 Mi	SOUTHEAST	361
06025009733	K & J ENTERPRISES 21750 MAIN ST GRAND TERRACE, CA 92324-5809 COUNTY: SAN BERNARDINO	CORTS	0.227 Mi	SOUTHEAST	9733
1/4 - 1/2 Miles					
06010016030	DAWCO CONSTRUCTION 12345 LA CADERA COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST	0.254 Mi	NORTHWEST	6030
06010016031	DAWCO CONSTRUCTION INC 12345 LA CADENA DR GRAND TERRACE, CA 92324-3618 COUNTY: SAN BERNARDINO	RST	0.254 Mi	NORTHWEST	6031
06055035068	TM COBB CO. 90 TRANSIT AVE RIVERSIDE, CA 92507-1135 COUNTY: RIVERSIDE	HWIS	0.287 Mi	SOUTHWEST	5068
06010047221	ROQUET RANCH 2699 MARYKNOLL DR COLTON, CA 92324-3712 COUNTY: SAN BERNARDINO	RST	0.311 Mi	NORTHWEST	7221
06040014582	DUGGAN, CHARLES E COMPANY 160 COMMERCIAL AVE RIVERSIDE, CA 92507 COUNTY: RIVERSIDE	HWS	0.375 Mi	SOUTHWEST	4582
06040014620	NIAGARA CHEMICAL DIV. #2 160 COMMERCIAL AVE RIVERSIDE, CA 92507 COUNTY: RIVERSIDE	HWS	0.375 Mi	SOUTHWEST	4620

ERIIS SUMMARY OF PLOTTABLE SITES

ERIIS Report #89517A — May 28, 1996

ERIIS ID.	FACILITY/ADDRESS	DATABASE	DISTANCE FROM SITE	DIRECTION FROM SITE	MAP ID
06010014759	COUNTY LANDFILL - HIGHGROVE YD 1040 CENTER ST RIVERSIDE, CA 92507-1016 COUNTY: RIVERSIDE	RST	0.470 MI	SOUTHWEST	4759
06041003622	CITRUS PACKING HOUSE 859 CENTER ST RIVERSIDE, CA 92507-1408 COUNTY: RIVERSIDE	WDS	0.475 MI	SOUTHEAST	3622
06005011713	LVW BROWN ESTATES INC 859 CENTER ST RIVERSIDE, CA 92507-1408 COUNTY: RIVERSIDE	LRST	0.475 MI	SOUTHEAST	1713
06010012372	CIRCLE K #311 1091 CENTER ST RIVERSIDE, CA 92507-1006 COUNTY: RIVERSIDE	RST	0.487 MI	SOUTHWEST	2372
06005005169	CIRCLE K STORE #0311 1091 CENTER ST RIVERSIDE, CA 92507-1006 COUNTY: RIVERSIDE	LRST	0.487 MI	SOUTHWEST	5169
06040015214	WASHBURN & BELL #2 807 CENTER ST RIVERSIDE, CA 92507-1408 COUNTY: RIVERSIDE	HWS	0.495 MI	SOUTHEAST	5214
06010060738	WASHBURN & SONS 807 CENTER ST RIVERSIDE, CA 92507-1408 COUNTY: RIVERSIDE	RST	0.495 MI	SOUTHEAST	738
06055016158	WASHBURN AND SONS 807 CENTER ST RIVERSIDE, CA 92507-1408 COUNTY: RIVERSIDE	HWIS	0.495 MI	SOUTHEAST	6158
	1/2 - 1 Miles				
06007006188	WHITNEY MACHINERY INC 20 IOWA AVE RIVERSIDE, CA 92507-1028 COUNTY: RIVERSIDE	RCRIS_LG	0.520 MI	SOUTHWEST	6188
06021004577	WHITNEY MACHINERY, INC. 20 IOWA AVE RIVERSIDE, CA 92507-1028 COUNTY: RIVERSIDE	SPILLS	0.520 MI	SOUTHWEST	4577
06005016128	ROY BARNETT LANDSCAPING 1253 W CHURCH ST RIVERSIDE, CA 92507-1003 COUNTY: RIVERSIDE	LRST	0.535 MI	SOUTHWEST	6128
06008001372	WILDEN PUMP & ENGINEERING 22069 VAN BUREN ST GRAND TERRACE, CA 92313-5651 COUNTY: SAN BERNARDINO	RCRIS_SG	0.585 MI	NORTHEAST	1372
06040017544	WILDEN PUMP & ENGINEERING 22069 VAN BUREN ST COLTON, CA 92313-5651 COUNTY: SAN BERNARDINO	HWS	0.585 MI	NORTHEAST	7544
06010035999	MENENDEZ SERVICE 291 IOWA AVE RIVERSIDE, CA 92507-1020 COUNTY: RIVERSIDE	RST	0.621 MI	SOUTHWEST	5999
06055005397	1X SHEARER, ROBERT 323 IOWA AVE RIVERSIDE, CA 92507-1032 COUNTY: RIVERSIDE	HWIS	0.651 MI	SOUTHWEST	5397
06005017083	SHEARER'S SERV U SELF 323 IOWA AVE RIVERSIDE, CA 92507-1032 COUNTY: RIVERSIDE	LRST	0.651 MI	SOUTHWEST	7083
06025009121	SHEARER'S SERV U SELF 323 IOWA AVE RIVERSIDE, CA 92507-1032 COUNTY: RIVERSIDE	CORTS	0.651 MI	SOUTHWEST	9121
06010050070	SHEARER'S SERV-UR-SELF 323 IOWA AVE RIVERSIDE, CA 92507-1032 COUNTY: RIVERSIDE	RST	0.651 MI	SOUTHWEST	70
06040017786	ORKIN EXTERMINATING CO INC #3 12032 LA CROSSE AVE COLTON, CA 92313-4419 COUNTY: SAN BERNARDINO	HWS	0.654 MI	NORTHEAST	7786

ERIIS SUMMARY OF PLOTTABLE SITES

ERIIS Report #89517A — May 28, 1996

ERIIS ID.	FACILITY/ADDRESS	DATABASE	DISTANCE FROM SITE	DIRECTION FROM SITE	MAP ID
06010030829	KENT LANDSBERG PAPERLAND 1180 SPRINGS RIVERSIDE, CA 92507 COUNTY: RIVERSIDE	RST	0.772 Mi	SOUTHWEST	829
06025009579	STATER BROTHERS WAREHOUSE 21700 BARTON RD COLTON, CA 92324-4410 COUNTY: SAN BERNARDINO	CORTS	0.783 Mi	NORTHEAST	9579
06008007113	STATER BROS 21700 BARTON RD COLTON, CA 92324-4401 COUNTY: SAN BERNARDINO	RCRIS_SG	0.784 Mi	NORTHEAST	7113
06055019747	STATER BROS 21700 BARTON RD COLTON, CA 92324-4410 COUNTY: SAN BERNARDINO	HWIS	0.784 Mi	NORTHEAST	9747
06010052700	STATER BROS. MARKETS 21700 BARTON RD COLTON, CA 92324-4410 COUNTY: SAN BERNARDINO	RST	0.784 Mi	NORTHEAST	2700
06005018566	STATER BROTHERS WAREHOUSE 21700 BARTON RD COLTON, CA 92324-4401 COUNTY: SAN BERNARDINO	LRST	0.784 Mi	NORTHEAST	8566
06010010046	CASEY, GEORGE/ETHYL TRUST 21801 BARTON RD COLTON, CA 92324-4404 COUNTY: SAN BERNARDINO	RST	0.808 Mi	NORTHEAST	46
06040017637	CASEY,GEORGE F. CO. #2 21801 BARTON RD COLTON, CA 92313-4404 COUNTY: SAN BERNARDINO	HWS	0.808 Mi	NORTHEAST	7637
06010047527	RUBEN LUNA 21801 BARTON RD GRAND TERRACE, CA 92324-4404 COUNTY: SAN BERNARDINO	RST	0.808 Mi	NORTHEAST	7527
06010008670	CAL GAS-RIVERSIDE 333 W LA CADENA DR RIVERSIDE, CA 92501-1252 COUNTY: RIVERSIDE	RST	0.818 Mi	SOUTHWEST	8670
06055028737	IN OUT PAINT BODY CENTER 11900 LA CROSSE AVE GRAND TERRACE, CA 92324-4477 COUNTY: SAN BERNARDINO	HWIS	0.855 Mi	NORTHEAST	8737
06010002510	ALVAH L. GLADDEN 22268 VAN BUREN ST GRAND TERRACE, CA 92324-5637 COUNTY: SAN BERNARDINO	RST	0.860 Mi	NORTHEAST	2510
06040016249	K & N ENGINEERING, INC. 561 IOWA AVE RIVERSIDE, CA 92507-1315 COUNTY: RIVERSIDE	HWS	0.876 Mi	SOUTHWEST	5249
06008016811	K AND N ENGINEERING INC BLDG C 561 IOWA AVE STE C RIVERSIDE, CA 92507-1315 COUNTY: RIVERSIDE	RCRIS_SG	0.876 Mi	SOUTHWEST	6811
06040014973	WALTON W.B. ENTERPRISES INC. 561 IOWA AVE RIVERSIDE, CA 92507-1315 COUNTY: RIVERSIDE	HWS	0.876 Mi	SOUTHWEST	4973
06040014793	WESTERN STATES REFINING 561 IOWA AVE RIVERSIDE, CA 92507-1315 COUNTY: RIVERSIDE	HWS	0.876 Mi	SOUTHWEST	4793
06010054324	TEXACO 22045 BARTON RD COLTON, CA 92324-5001 COUNTY: SAN BERNARDINO	RST	0.919 Mi	NORTHEAST	4324
CS005019341	TEXACO SERVICE STATION 22045 BARTON RD COLTON, CA 92313-5001 COUNTY: SAN BERNARDINO	LRST	0.919 Mi	NORTHEAST	9341
06025009637	TEXACO SERVICE STATION 22045 BARTON RD COLTON, CA 92324-5001 COUNTY: SAN BERNARDINO	CORTS	0.920 Mi	NORTHEAST	9637
06008000286	PRIME EQUIPMENT STORE 505 520 E LA CADENA DR RIVERSIDE, CA 92501-1313 COUNTY: RIVERSIDE	RCRIS_SG	0.949 Mi	SOUTHWEST	286

ERIIS SUMMARY OF PLOTTABLE SITES

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ERIIS ID.	FACILITY/ADDRESS	DATABASE	DISTANCE FROM SITE	DIRECTION FROM SITE	MAP ID
06010037427	MOBIL STATION #92 22087 BARTON RD COLTON, CA 92324-5001 COUNTY: SAN BERNARDINO	RST	0.959 MI	NORTHEAST	7427
06055008228	1X DUCHARME, NEAL 920 CITRUS ST RIVERSIDE, CA 92507-1711 COUNTY: RIVERSIDE	HWIS	0.976 MI	SOUTHEAST	8228
06010024509	GRAND TERRACE GAS-UP 22115 BARTON RD GRAND TERRACE, CA 92324-5002 COUNTY: SAN BERNARDINO	RST	0.984 MI	NORTHEAST	4509

ERIIS ENVIRONMENTAL DATA REPORT
COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY INFORMATION SYSTEM
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ERIIS ID / EPA ID	FACILITY	ADDRESS	COUNTY	DISTANCE FROM SITE	DIRECTION FROM SITE	MAP ID
16001000361 / CAD981172125	RIVERSIDE PLATING (K&N PLATING)	21750 MAIN ST GRAND TERRACE, CA 92324	SAN BERNARDINO	0.226 MILES	SOUTHEAST	361

SITE EVENT: DISCOVERY	START DATE: / /	COMPLETION DATE: 01/01/1985	ACTION PRIORITY: BLANK
SITE EVENT: PRELIMINARY ASSESSMENT	START DATE: 07/01/1985	COMPLETION DATE: 12/01/1985	ACTION PRIORITY: LOW
SITE EVENT: PRELIMINARY ASSESSMENT	START DATE: / /	COMPLETION DATE: 12/14/1988	ACTION PRIORITY: LOW
SITE EVENT: SCREENING SITE INSPECTION	START DATE: / /	COMPLETION DATE: 11/19/1990	ACTION PRIORITY: LOW

ERIIS ENVIRONMENTAL DATA REPORT
RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM
RCRIS_LG - PLOTTABLE SITES - PAGE 1

ERIIS Report #89517A — May 28, 1996

ERIIS ID / EPA ID	FACILITY	ADDRESS	RAATS ISSUE DATE / RAATS ACTION/STATUS / RAATS PENALTIES	DISTANCE FROM SITE	DIRECTION FROM SITE	MAP ID
06007000286 CAD000631028	SO CALIF HIGHGROVE GEN STA COUNTY: SAN BERNARDINO	12700 TAYLOR ST COLTON, CA 92313-5828	FACILITY NOT REPORTED IN RAATS	0.061 MILES	NORTHEAST	286

HAZARDOUS WASTES

	WASTE CODE:	AMOUNT OF WASTE:
1.	D001	NOT REPORTED
2.	D002	NOT REPORTED
3.	D004	NOT REPORTED
4.	F001	NOT REPORTED
5.	U013	NOT REPORTED
6.	U226	NOT REPORTED

06007005534 CAD981172125	K & N PLATING COUNTY: RIVERSIDE	21750 MAIN ST COLTON, CA 92324-5809	FACILITY NOT REPORTED IN RAATS	0.226 MILES	SOUTHEAST	5534

06007006188 CAD981394844	WHITNEY MACHINERY INC COUNTY: RIVERSIDE	20 IOWA AVE RIVERSIDE, CA 92507-1028	FACILITY NOT REPORTED IN RAATS	0.520 MILES	SOUTHWEST	6188

HAZARDOUS WASTES

	WASTE CODE:	AMOUNT OF WASTE:
1.	D000	NOT REPORTED

ERIIS ENVIRONMENTAL DATA REPORT
RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM
RCRIS_SG - PLOTTABLE SITES - PAGE 1

ERIIS Report #89517A — May 28, 1996

ERIIS ID / EPA ID	FACILITY	ADDRESS	RAATS ISSUE DATE / RAATS ACTION/STATUS / RAATS PENALTIES	DISTANCE FROM SITE	DIRECTION FROM SITE	MAP ID
06008001372 CAD981369432	WILDEN PUMP & ENGINEERING COUNTY: SAN BERNARDINO	22069 VAN BUREN ST GRAND TERRACE, CA 92313-5651	FACILITY NOT REPORTED IN RAATS	0.585 MILES	NORTHEAST	1372
06008007113 CAD982002701	STATER BROS COUNTY: SAN BERNARDINO	21700 BARTON RD COLTON, CA 92324-4401	FACILITY NOT REPORTED IN RAATS	0.784 MILES	NORTHEAST	7113

HAZARDOUS WASTES

	WASTE CODE:	AMOUNT OF WASTE:
1.	D001	NOT REPORTED

ERIIS ID / EPA ID	FACILITY	ADDRESS	RAATS ISSUE DATE / RAATS ACTION/STATUS / RAATS PENALTIES	DISTANCE FROM SITE	DIRECTION FROM SITE	MAP ID
06008016811 CAD983639386	K AND N ENGINEERING INC BLDG C COUNTY: RIVERSIDE	561 IOWA AVE STE C RIVERSIDE, CA 92507-1315	FACILITY NOT REPORTED IN RAATS	0.876 MILES	SOUTHWEST	6811

HAZARDOUS WASTES

	WASTE CODE:	AMOUNT OF WASTE:
1.	U080	NOT REPORTED

ERIIS ID / EPA ID	FACILITY	ADDRESS	RAATS ISSUE DATE / RAATS ACTION/STATUS / RAATS PENALTIES	DISTANCE FROM SITE	DIRECTION FROM SITE	MAP ID
06008000286 CAD029003498	PRIME EQUIPMENT STORE 505 COUNTY: RIVERSIDE	520 E LA CADENA DR RIVERSIDE, CA 92501-1313	FACILITY NOT REPORTED IN RAATS	0.949 MILES	SOUTHWEST	286

HAZARDOUS WASTES

	WASTE CODE:	AMOUNT OF WASTE:
1.	D001	NOT REPORTED

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FACILITY INDEX SYSTEM
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ERIIS Report #89517A

May 28, 1996

ERIIS ID / EPA ID	FACILITY	FACILITY ADDRESS	SIC CODE(S)	DISTANCE FROM SITE	DIRECTION FROM SITE
06003000473 CAD000631028	SO CALIF EDISON HIGHGROVE GEN	12700 TAYLOR ST COLTON, CA 92313-5828	4911	0.061 MILES	NORTHEAST
	TRACKING PROGRAM / LAST UPDATE RCRIS 08/03/95 PCS 04/19/95 AFS/AIRS 09/16/93				
06003012984 CAD981172125	K&N PLATING	21750 MAIN ST COLTON, CA 92313-5809	NOT REPORTED	0.226 MILES	SOUTHEAST
	TRACKING PROGRAM / LAST UPDATE RCRIS 08/03/95 CERCLIS 07/27/95				

ERIIS ENVIRONMENTAL DATA REPORT
CALIFORNIA CALSITES
HWS - PLOTTABLE SITES - PAGE 1

ERIIS Report #89517A

May 28, 199

ERIIS ID / FACILITY ID	FACILITY	ADDRESS	CALSITE STATUS / GROUNDWATER STATUS	CALSITE STATUS DATE	MAP II
06040017670 36490043	SO CALIF EDISON HIGHGROVE GEN STATION DISTANCE FROM SITE: 0.061 MILES DIRECTION FROM SITE: NORTHEAST	12700 TAYLOR ST COLTON, CA 92313-5828 COUNTY: SAN BERNARDINO	NO FURTHER ACTION FOR DTSC NOT REPORTED	06/28/83	7670
06040017505 36340037	K & J ENTERPRISES DISTANCE FROM SITE: 0.226 MILES DIRECTION FROM SITE: SOUTHEAST	21750 MAIN ST COLTON, CA 92313-5809 COUNTY: SAN BERNARDINO	SITE REFERRED TO RWQCB NOT REPORTED	06/01/95	7505
06040014582 33280006	DUGGAN, CHARLES E COMPANY DISTANCE FROM SITE: 0.375 MILES DIRECTION FROM SITE: SOUTHWEST	160 COMMERCIAL AVE RIVERSIDE, CA 92507 COUNTY: RIVERSIDE	NO FURTHER ACTION FOR DTSC NOT REPORTED	04/19/83	4582
06040014620 33280053	NIAGARA CHEMICAL DIV. #2 DISTANCE FROM SITE: 0.375 MILES DIRECTION FROM SITE: SOUTHWEST	160 COMMERCIAL AVE RIVERSIDE, CA 92507 COUNTY: RIVERSIDE	NO FURTHER ACTION FOR DTSC NOT REPORTED	05/09/83	4620
06040015214 33730080	WASHBURN & BELL #2 DISTANCE FROM SITE: 0.495 MILES DIRECTION FROM SITE: SOUTHEAST	807 CENTER ST RIVERSIDE, CA 92507-1408 COUNTY: RIVERSIDE	NO FURTHER ACTION FOR DTSC NOT REPORTED	06/27/83	5214
06040017544 36350015	WILDEN PUMP & ENGINEERING DISTANCE FROM SITE: 0.585 MILES DIRECTION FROM SITE: NORTHEAST	22069 VAN BUREN ST COLTON, CA 92313-5651 COUNTY: SAN BERNARDINO	NO FURTHER ACTION FOR DTSC NOT REPORTED	06/28/83	7544
06040017786 36730051	ORKIN EXTERMINATING CO INC #3 DISTANCE FROM SITE: 0.654 MILES DIRECTION FROM SITE: NORTHEAST	12032 LA CROSSE AVE COLTON, CA 92313-4419 COUNTY: SAN BERNARDINO	NO FURTHER ACTION FOR DTSC NOT REPORTED	05/31/83	7786
06040017637 36490007	CASEY,GEORGE F. CO. #2 DISTANCE FROM SITE: 0.808 MILES DIRECTION FROM SITE: NORTHEAST	21801 BARTON RD COLTON, CA 92313-4404 COUNTY: SAN BERNARDINO	REFERRED TO OTHER AGENCY NOT REPORTED	08/09/94	7637
06040014793 33290104	WESTERN STATES REFINING DISTANCE FROM SITE: 0.876 MILES DIRECTION FROM SITE: SOUTHWEST	561 IOWA AVE RIVERSIDE, CA 92507-1315 COUNTY: RIVERSIDE	NO FURTHER ACTION FOR DTSC NOT REPORTED	05/10/83	4793
06040014973 33360041	WALTON W.B. ENTERPRISES INC. DISTANCE FROM SITE: 0.876 MILES DIRECTION FROM SITE: SOUTHWEST	561 IOWA AVE RIVERSIDE, CA 92507-1315 COUNTY: RIVERSIDE	NO FURTHER ACTION FOR DTSC NOT REPORTED	04/28/83	4973
06040015249 33730121	K & N ENGINEERING, INC. DISTANCE FROM SITE: 0.876 MILES DIRECTION FROM SITE: SOUTHWEST	561 IOWA AVE RIVERSIDE, CA 92507-1315 COUNTY: RIVERSIDE	NO FURTHER ACTION FOR DTSC NOT REPORTED	04/19/83	5249

ERIIS ENVIRONMENTAL DATA REPORT
CALIFORNIA LEAKING UNDERGROUND STORAGE TANKS
LRST - PLOTTABLE SITES - PAGE 1

ERIIS Report #89517A — May 28, 1996

ERIIS ID	FACILITY	ADDRESS	COUNTY	DISTANCE FROM SITE	DIRECTION FROM SITE	MAP ID
06005011713	LVW BROWN ESTATES INC	859 CENTER ST RIVERSIDE, CA 92507-1408	RIVERSIDE	0.475 MILES	SOUTHEAST	1713

CASE NO.	REPORT DATE	CASE TYPE	SUBSTANCE	ABATEMENT METHOD	STATUS
083302350T	NOT REPORTED	SOIL ONLY	GASOLINE	NOT REPORTED	CASE CLOSED

CASE CLOSED:
REMEDIAL ACTION:
REMEDIATION PLAN:
LEAK BEING CONFIRMED:
POLLUTION CHARACTERIZATION:
POST REMEDIAL ACTION MONITORING:
PRELIMINARY SITE ASSESSMENT UNDERWAY:
PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED:

ERIIS ID	FACILITY	ADDRESS	COUNTY	DISTANCE FROM SITE	DIRECTION FROM SITE	MAP ID
06005005169	CIRCLE K STORE #0311	1091 CENTER ST RIVERSIDE, CA 92507-1006	RIVERSIDE	0.487 MILES	SOUTHWEST	5169

CASE NO.	REPORT DATE	CASE TYPE	SUBSTANCE	ABATEMENT METHOD	STATUS
083302230T	NOT REPORTED	SOIL ONLY	GASOLINE	NOT REPORTED	POLLUTION CHARACTERIZATION

CASE CLOSED:
REMEDIAL ACTION:
REMEDIATION PLAN:
LEAK BEING CONFIRMED:
POLLUTION CHARACTERIZATION:
POST REMEDIAL ACTION MONITORING:
PRELIMINARY SITE ASSESSMENT UNDERWAY:
PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED:

ERIIS ID	FACILITY	ADDRESS	COUNTY	DISTANCE FROM SITE	DIRECTION FROM SITE	MAP ID
06005016128	ROY BARNETT LANDSCAPING	1253 W CHURCH ST RIVERSIDE, CA 92507-1003	RIVERSIDE	0.535 MILES	SOUTHWEST	6128

CASE NO.	REPORT DATE	CASE TYPE	SUBSTANCE	ABATEMENT METHOD	STATUS
083301420T	NOT REPORTED	SOIL ONLY	DIESEL	NOT REPORTED	CASE CLOSED

CASE CLOSED:
REMEDIAL ACTION:
REMEDIATION PLAN:
LEAK BEING CONFIRMED:
POLLUTION CHARACTERIZATION:
POST REMEDIAL ACTION MONITORING:
PRELIMINARY SITE ASSESSMENT UNDERWAY:
PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED:

ERIIS ID	FACILITY	ADDRESS	COUNTY	DISTANCE FROM SITE	DIRECTION FROM SITE	MAP ID
06005017083	SHEARER'S SERV U SELF	323 IOWA AVE RIVERSIDE, CA 92507-1032	RIVERSIDE	0.651 MILES	SOUTHWEST	7083

CASE NO.	REPORT DATE	CASE TYPE	SUBSTANCE	ABATEMENT METHOD	STATUS
083301831T	NOT REPORTED	AQUIFER AFFECTED	GASOLINE	NOT REPORTED	POLLUTION CHARACTERIZATION

CASE CLOSED:
REMEDIAL ACTION:
REMEDIATION PLAN:
LEAK BEING CONFIRMED:
POLLUTION CHARACTERIZATION:
POST REMEDIAL ACTION MONITORING:
PRELIMINARY SITE ASSESSMENT UNDERWAY:
PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED:

ERIIS ID	FACILITY	ADDRESS	COUNTY	DISTANCE FROM SITE	DIRECTION FROM SITE	MAP ID
06005018566	STATER BROTHERS WAREHOUSE	21700 BARTON RD COLTON, CA 92324-4401	SAN BERNARDINO	0.784 MILES	NORTHEAST	8566

CASE NO.	REPORT DATE	CASE TYPE	SUBSTANCE	ABATEMENT METHOD	STATUS
083600671T	NOT REPORTED	SOIL ONLY	DIESEL	EXCAVATE AND DISPOSE	POLLUTION CHARACTERIZATION

CASE CLOSED:
REMEDIAL ACTION:
REMEDIATION PLAN:
LEAK BEING CONFIRMED:
POLLUTION CHARACTERIZATION:
POST REMEDIAL ACTION MONITORING:
PRELIMINARY SITE ASSESSMENT UNDERWAY:
PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED:

ERIIS ID	FACILITY	ADDRESS	COUNTY	DISTANCE FROM SITE	DIRECTION FROM SITE	MAP ID
06005019341	TEXACO SERVICE STATION	22045 BARTON RD COLTON, CA 92313-5001	SAN BERNARDINO	0.919 MILES	NORTHEAST	9341

CASE NO.	REPORT DATE	CASE TYPE	SUBSTANCE	ABATEMENT METHOD	STATUS
083601660T	NOT REPORTED	SOIL ONLY	GASOLINE	VACUUM EXTRACT	REMEDIAL ACTION UNDERWAY

CASE CLOSED:
REMEDIAL ACTION:
REMEDIATION PLAN:
LEAK BEING CONFIRMED:
POLLUTION CHARACTERIZATION:
POST REMEDIAL ACTION MONITORING:
PRELIMINARY SITE ASSESSMENT UNDERWAY:
PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED:

ERIIS ID	FACILITY	BUSINESS DESCRIPTION	ADDRESS	MANAGER TELEPHONE	MAP #
06010026479	HIGHGROVE GENERATING STATION DISTANCE FROM SITE: 0.061 MILES DIRECTION FROM SITE: NORTHEAST	ELECTRIC UTILITY	12700 TAYLOR ST COLTON, CA 92324-5828 COUNTY: SAN BERNARDINO	VICTOR BARRION, ENG. III ( ) -	6479

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
154	100 G	UNKNOWN	ACTIVE	UNKNOWN	BARE STEEL
155	100 G	UNKNOWN	ACTIVE	UNKNOWN	BARE STEEL
158	39000 G	UNKNOWN	ACTIVE	UNKNOWN	CONCRETE
159	21000 G	UNKNOWN	ACTIVE	UNKNOWN	BARE STEEL
160	21000 G	UNKNOWN	ACTIVE	UNKNOWN	BARE STEEL
161	21000 G	UNKNOWN	ACTIVE	UNKNOWN	BARE STEEL
162	21000 G	UNKNOWN	ACTIVE	UNKNOWN	BARE STEEL

06010034054	LUCKY OIL CO INC DISTANCE FROM SITE: 0.204 MILES DIRECTION FROM SITE: NORTHWEST	GASOLINE STATION	12717 IOWA COLTON, CA 92509 COUNTY: SAN BERNARDINO	MEDITERRANEAN, INC. ( ) -	4054

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
1	550 G	OIL	ACTIVE	SINGLE WALL	BARE STEEL
2	0 G	UNKNOWN	ACTIVE	UNKNOWN	OTHER
3	0 G	UNKNOWN	ACTIVE	UNKNOWN	OTHER
4	0 G	UNKNOWN	ACTIVE	UNKNOWN	OTHER

06010016030	DAWCO CONSTRUCTION DISTANCE FROM SITE: 0.254 MILES DIRECTION FROM SITE: NORTHWEST	CONSTRUCTION	12345 LA CADERA COLTON, CA 92324 COUNTY: SAN BERNARDINO	( ) -	6030

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
	1 G	UNKNOWN	ACTIVE	UNKNOWN	UNKNOWN

06010016031	DAWCO CONSTRUCTION INC DISTANCE FROM SITE: 0.254 MILES DIRECTION FROM SITE: NORTHWEST	CONSTRUCTION	12345 LA CADENA DR GRAND TERRACE, CA 92324-3618 COUNTY: SAN BERNARDINO	(714) 783-1218	6031

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
	1000 G	NOT REPORTED	REMOVED	SINGLE WALL	BARE STEEL

06010047221	ROQUET RANCH DISTANCE FROM SITE: 0.311 MILES DIRECTION FROM SITE: NORTHWEST	UNKNOWN	2699 MARYKNOLL DR COLTON, CA 92324-3712 COUNTY: SAN BERNARDINO	( ) -	7221

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
	1 G	UNKNOWN	REMOVED	UNKNOWN	UNKNOWN
	1 G	UNKNOWN	REMOVED	UNKNOWN	UNKNOWN
	1 G	UNKNOWN	REMOVED	UNKNOWN	UNKNOWN

06010014759	COUNTY LANDFILL - HIGHGROVE YD DISTANCE FROM SITE: 0.470 MILES DIRECTION FROM SITE: SOUTHWEST	VEHICLE MAINTENANCE	1040 CENTER ST RIVERSIDE, CA 92507-1016 COUNTY: RIVERSIDE	DELBERT OTEY (714) 787-2182	4759

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
000578	7500 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL
000578	1000 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	BARE STEEL
000578	550 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	BARE STEEL

ERIIS ID	FACILITY	BUSINESS DESCRIPTION	ADDRESS	MANAGER TELEPHONE	MAP ID
06010012372	CIRCLE K #311 DISTANCE FROM SITE: 0.487 MILES DIRECTION FROM SITE: SOUTHWEST	GAS STATION	1091 CENTER ST RIVERSIDE, CA 92507-1006 COUNTY: RIVERSIDE	GEORGE BEAL (714) 686-1122	2372

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
000036	9940 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	BARE STEEL
000036	9940 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL

06010060738	WASHBURN & SONS DISTANCE FROM SITE: 0.495 MILES DIRECTION FROM SITE: SOUTHEAST	PEST CONTROL	807 CENTER ST RIVERSIDE, CA 92507-1408 COUNTY: RIVERSIDE	PHIL WASHBURN (714) 683-2392	738

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
001133	900 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL
001133	4000 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL

06010035999	MENENDEZ SERVICE DISTANCE FROM SITE: 0.621 MILES DIRECTION FROM SITE: SOUTHWEST	GASOLINE STATION	291 IOWA AVE RIVERSIDE, CA 92507-1020 COUNTY: RIVERSIDE	(714) 276-7101	5999

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
	8000 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	BARE STEEL
	8000 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL
	5000 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL

06010050070	SHEARER'S SERV-UR-SELF DISTANCE FROM SITE: 0.651 MILES DIRECTION FROM SITE: SOUTHWEST	GAS STATION	323 IOWA AVE RIVERSIDE, CA 92507-1032 COUNTY: RIVERSIDE	ROBERT SHEARER (714) 683-9913	70

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
000206	10000 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	STAINLESS STEEL
000206	1000 G	NOT REPORTED	ACTIVE	SINGLE WALL	STAINLESS STEEL
000206	4000 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	STAINLESS STEEL
000206	8000 G	NOT REPORTED	ACTIVE	SINGLE WALL	STAINLESS STEEL

06010030829	KENT LANDSBERG PAPERLAND DISTANCE FROM SITE: 0.772 MILES DIRECTION FROM SITE: SOUTHWEST	DISTIBUTOR	1180 SPRINGS RIVERSIDE, CA 92507 COUNTY: RIVERSIDE	(714) 686-7801	829

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
1	2000 G	NOT REPORTED	ACTIVE	UNKNOWN	UNKNOWN
2	1000 G	NOT REPORTED	ACTIVE	UNKNOWN	UNKNOWN
3	10000 G	NOT REPORTED	ACTIVE	UNKNOWN	UNKNOWN

06010052700	STATER BROS. MARKETS DISTANCE FROM SITE: 0.784 MILES DIRECTION FROM SITE: NORTHEAST	DISTRIBUTION CENTER	21700 BARTON RD COLTON, CA 92324-4410 COUNTY: SAN BERNARDINO	OLIVER J. GREGOR ( ) -	2700

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
1	7500 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	BARE STEEL
2	7500 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	BARE STEEL
3	8000 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL
4	8000 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL
5	8000 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL
6	8000 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL

ERIIS ID	FACILITY	BUSINESS DESCRIPTION	ADDRESS	MANAGER TELEPHONE	MAP ID
	OWNER TANK ID / CAPACITY / SUBSTANCE / STATUS / TANK DESCRIPTION / TANK MATERIAL				
	7 / 6000 G / OIL / ACTIVE / SINGLE WALL / BARE STEEL				
	11 / 150 G / UNKNOWN / ACTIVE / SINGLE WALL / UNKNOWN				
	12 / 150 G / UNKNOWN / ACTIVE / SINGLE WALL / UNKNOWN				
	13 / 300 G / UNKNOWN / ACTIVE / SINGLE WALL / BARE STEEL				
	14 / 300 G / UNKNOWN / ACTIVE / SINGLE WALL / BARE STEEL				
	15 / 300 G / UNKNOWN / ACTIVE / SINGLE WALL / BARE STEEL				
	16 / 300 G / UNKNOWN / ACTIVE / SINGLE WALL / BARE STEEL				
)6010010046	CASEY, GEORGE/ETHYL TRUST DISTANCE FROM SITE: 0.808 MILES DIRECTION FROM SITE: NORTHEAST	NOT SUPPLIED	21801 BARTON RD COLTON, CA 92324-4404 COUNTY: SAN BERNARDINO	( ) -	46
	OWNER TANK ID / CAPACITY / SUBSTANCE / STATUS / TANK DESCRIPTION / TANK MATERIAL				
	1 / 1000 G / NOT REPORTED / REMOVED / UNKNOWN / UNKNOWN				
)6010047527	RUBEN LUNA DISTANCE FROM SITE: 0.808 MILES DIRECTION FROM SITE: NORTHEAST	NOT GIVEN	21801 BARTON RD GRAND TERRACE, CA 92324-4404 COUNTY: SAN BERNARDINO	(714) 783-2820	7527
	OWNER TANK ID / CAPACITY / SUBSTANCE / STATUS / TANK DESCRIPTION / TANK MATERIAL				
	1 / 1 G / REGULAR UNLEADED / REMOVED / UNKNOWN / UNKNOWN				
)6010008670	CAL GAS-RIVERSIDE DISTANCE FROM SITE: 0.818 MILES DIRECTION FROM SITE: SOUTHWEST	DISTRIBUTOR	333 W LA CADENA DR RIVERSIDE, CA 92501-1252 COUNTY: RIVERSIDE	MATT HENRICH (714) 686-3031	8670
	OWNER TANK ID / CAPACITY / SUBSTANCE / STATUS / TANK DESCRIPTION / TANK MATERIAL				
	000228 / 8000 G / NOT REPORTED / ACTIVE / UNKNOWN / UNKNOWN				
	000228 / 8000 G / NOT REPORTED / ACTIVE / UNKNOWN / UNKNOWN				
	000228 / 8000 G / REGULAR UNLEADED / ACTIVE / UNKNOWN / UNKNOWN				
)6010002510	ALVAH L. GLADDEN DISTANCE FROM SITE: 0.860 MILES DIRECTION FROM SITE: NORTHEAST	NOT SUPPLIED	22268 VAN BUREN ST GRAND TERRACE, CA 92324-5637 COUNTY: SAN BERNARDINO	( ) -	2510
	OWNER TANK ID / CAPACITY / SUBSTANCE / STATUS / TANK DESCRIPTION / TANK MATERIAL				
	1 / 550 G / NOT REPORTED / ACTIVE / SINGLE WALL / BARE STEEL				
)6010054324	TEXACO DISTANCE FROM SITE: 0.919 MILES DIRECTION FROM SITE: NORTHEAST	GASOLINE STATION	22045 BARTON RD COLTON, CA 92324-5001 COUNTY: SAN BERNARDINO	K. TAKOURIAN ( ) -	4324
	OWNER TANK ID / CAPACITY / SUBSTANCE / STATUS / TANK DESCRIPTION / TANK MATERIAL				
	1 / 550 G / OIL / ACTIVE / SINGLE WALL / BARE STEEL				
	2 / 6000 G / REGULAR UNLEADED / ACTIVE / SINGLE WALL / BARE STEEL				
	3 / 6000 G / REGULAR UNLEADED / ACTIVE / SINGLE WALL / BARE STEEL				
	4 / 6000 G / REGULAR UNLEADED / ACTIVE / SINGLE WALL / BARE STEEL				
	5 / 6000 G / NOT REPORTED / ACTIVE / SINGLE WALL / BARE STEEL				
)6010037427	MOBIL STATION #92 DISTANCE FROM SITE: 0.959 MILES DIRECTION FROM SITE: NORTHEAST	GASOLINE STATION	22087 BARTON RD COLTON, CA 92324-5001 COUNTY: SAN BERNARDINO	NABIH AKAR ( ) -	7427
	OWNER TANK ID / CAPACITY / SUBSTANCE / STATUS / TANK DESCRIPTION / TANK MATERIAL				
	1 / 10000 G / NOT REPORTED / ACTIVE / SINGLE WALL / BARE STEEL				

ERIIS ENVIRONMENTAL DATA REPORT
CALIFORNIA UNDERGROUND STORAGE TANKS
RST - PLOTTABLE SITES - PAGE 4

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ERIIS ID	FACILITY	BUSINESS DESCRIPTION	ADDRESS	MANAGER TELEPHONE	MAP ID
	OWNER TANK ID / CAPACITY / SUBSTANCE / STATUS / TANK DESCRIPTION / TANK MATERIAL				
	2 / 10000 G / REGULAR UNLEADED / ACTIVE / SINGLE WALL / BARE STEEL				
	3 / 10000 G / REGULAR UNLEADED / ACTIVE / SINGLE WALL / BARE STEEL				
	4 / 550 G / OIL / ACTIVE / SINGLE WALL / BARE STEEL				
06010024509	GRAND TERRACE GAS-UP DISTANCE FROM SITE: 0.984 MILES DIRECTION FROM SITE: NORTHEAST	GASOLINE STATION	22115 BARTON RD GRAND TERRACE, CA 92324-5002 COUNTY: SAN BERNARDINO	( ) -	4509
	OWNER TANK ID / CAPACITY / SUBSTANCE / STATUS / TANK DESCRIPTION / TANK MATERIAL				
	1 / 8000 G / NOT REPORTED / ACTIVE / SINGLE WALL / BARE STEEL				
	2 / 8000 G / REGULAR UNLEADED / ACTIVE / SINGLE WALL / BARE STEEL				
	3 / 80000 G / NOT REPORTED / ACTIVE / SINGLE WALL / BARE STEEL				
	4 / 550 G / OIL / ACTIVE / SINGLE WALL / BARE STEEL				

ERIIS ENVIRONMENTAL DATA REPORT
CALIFORNIA CORTESE LIST
CORTS - PLOTTABLE SITES - PAGE 1

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ERIIS ID	REGULATED BY	FACILITY	ADDRESS	COUNTY	MAP ID
06025009733	CALSI	K & J ENTERPRISES DISTANCE FROM SITE: 0.227 MILES DIRECTION FROM SITE: SOUTHEAST	21750 MAIN ST GRAND TERRACE, CA 92324-5809	SAN BERNARDINO	9733
06025009121	LTANK	SHEARER'S SERV U SELF DISTANCE FROM SITE: 0.651 MILES DIRECTION FROM SITE: SOUTHWEST	323 IOWA AVE RIVERSIDE, CA 92507-1032	RIVERSIDE	9121
06025009579	LTANK	STATER BROTHERS WAREHOUSE DISTANCE FROM SITE: 0.783 MILES DIRECTION FROM SITE: NORTHEAST	21700 BARTON RD COLTON, CA 92324-4410	SAN BERNARDINO	9579
06025009637	LTANK	TEXACO SERVICE STATION DISTANCE FROM SITE: 0.920 MILES DIRECTION FROM SITE: NORTHEAST	22045 BARTON RD COLTON, CA 92324-5001	SAN BERNARDINO	9637

ERIIS ENVIRONMENTAL DATA REPORT
CALIFORNIA HAZARDOUS WASTE INFORMATION SYSTEM
HWIS - PLOTTABLE SITES - PAGE 1

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ERIIS ID / EPA ID	FACILITY / TYPE OF FACILITY	ADDRESS	COUNTY	DISTANCE FROM SITE	DIRECTION FROM SITE	MAP ID
06055009673 CAD000631028	SO CALIF EDISON HIGHGROVE GENER STE GENERATOR	12700 TAYLOR ST COLTON, CA 92324-5828	SAN BERNARDINO	0.061 MILES	NORTHEAST	9673
06055013928 CAD981172125	K & N PLATING GENERATOR	21750 MAIN ST COLTON, CA 92324-5809	RIVERSIDE	0.226 MILES	SOUTHEAST	3928
06055035068 CAL921344095	TM COBB CO. GENERATOR	90 TRANSIT AVE RIVERSIDE, CA 92507-1135	RIVERSIDE	0.287 MILES	SOUTHWEST	5068
06055016158 CAD981445729	WASHBURN AND SONS GENERATOR	807 CENTER ST RIVERSIDE, CA 92507-1408	RIVERSIDE	0.495 MILES	SOUTHEAST	6158
06055005397 CAC000705576	1X SHEARER, ROBERT GENERATOR	323 IOWA AVE RIVERSIDE, CA 92507-1032	RIVERSIDE	0.651 MILES	SOUTHWEST	5397
06055019747 CAD982002701	STATER BROS GENERATOR	21700 BARTON RD COLTON, CA 92324-4410	SAN BERNARDINO	0.784 MILES	NORTHEAST	9747
06055028737 CAL000037830	IN OUT PAINT BODY CENTER GENERATOR	11900 LA CROSSE AVE GRAND TERRACE, CA 92324-4477	SAN BERNARDINO	0.855 MILES	NORTHEAST	8737
06055008228 CAC000824616	1X DUCHARME, NEAL GENERATOR	920 CITRUS ST RIVERSIDE, CA 92507-1711	RIVERSIDE	0.976 MILES	SOUTHEAST	8228

ERIIS ENVIRONMENTAL DATA REPORT
CALIFORNIA SPILLS, LEAKS, INVESTIGATIONS AND CLEANUP
SPILLS - PLOTTABLE SITES - PAGE 1

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ERIIS ID	FACILITY	ADDRESS	DISCOVERY DATE CAUSE	DISTANCE FROM SITE DIRECTION FROM SITE	MAP ID
06021004577	WHITNEY MACHINERY, INC. COUNTY: RIVERSIDE	20 IOWA AVE RIVERSIDE, CA 92507-1028	NOT REPORTED NOT REPORTED	0.520 MILES SOUTHWEST	4577

CONTAMINANT(S): OIL & GREASE
STATUS: CLOSED
MEDIA CONTAMINATED: GROUND WATER

ERIS ENVIRONMENTAL DATA REPORT
CALIFORNIA WASTE DISCHARGER SYSTEM
WDS - PLOTTABLE SITES - PAGE 1

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ERIS ID / FACILITY ID / NPDES_NUM	FACILITY / FACILITY ADDRESS / FACILITY COUNTY	FACILITY CONTACT / FACILITY PHONE	AGENCY / AGENCY ADDRESS	FACILITY TYPE / NATURE OF WASTE / WASTE TYPE	MAP ID
06041003944 8 332015005 CA0001555	GENERATING 12700 TAYLOR ST COLTON, CA 92313-5828 SAN BERNARDINO	NOT REPORTED NOT REPORTED DISTANCE FROM SITE: 0.061 MILES DIRECTION FROM SITE: NORTHEAST	SOUTHERN CALIFORNIA EDISON P.O. BOX 800 ROSEMEAD, CA 91770	INDUSTRIAL NONHAZARDOUS SOLID WASTES COOLING WATER: NONCONTACT	3944
06041003622 8 332101001 NOT REPORTED	CITRUS PACKING HOUSE 859 CENTER ST RIVERSIDE, CA 92507-1408 RIVERSIDE	NOT REPORTED NOT REPORTED DISTANCE FROM SITE: 0.475 MILES DIRECTION FROM SITE: SOUTHEAST	BROWN,L.V.W. ESTATE 859 CENTER ST RIVERSIDE, CA 92507	INDUSTRIAL NONHAZARDOUS SOLID WASTES WASHWATER WASTE	3622

Unplottable Sites

The remaining report pages list additional environmental sites that have been selected based on geographic criteria unique to your study site. They are classified as "unplottable sites" and require further investigation to assess their potential impact on your site.

How to Evaluate Unplottable Sites

Step 1
Streets Within the Radius: the following page is an alphabetical index of all streets that intersect or are contained within the largest study radius (usually one mile).

Step 2
Cross-Reference: use the "Streets Within the Radius" index to cross-reference the unplottable sites. For example, if Maple Avenue and Oak Avenue are listed in the street index, then any unplottable sites with a Maple Avenue or Oak Avenue address should be checked for possible impact on study site.

Questions on ERIIS' Proprietary Geocoding?

We're happy to answer any questions you might have about our data processing and **point-geocoding** (assigning a latitude and longitude to each address). Just give us a call on our toll-free number at (800) 989-0402 and let us know what state you're calling from. Our customer service staff is available from 8 a.m. to 8 p.m. (EST).

The ASTM Standard Practice For Environmental Site Assessments

As stated in the recently published **Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process** (E1527) by the American Society for Testing and Materials (ASTM):

> "For large databases with numerous facility records (such as RCRA hazardous waste generators and registered underground storage tanks), the records are not practically reviewable unless they can be obtained from the source agency in the smaller geographic area of ZIP code (3.3.24)."

Therefore, this Report contains information available by latitude/longitude or by ZIP code. If your research requires environmental records for which only city or county information is available (i.e., no valid street or ZIP code) ERIIS will include this data at no extra charge.

ERIIS LIST OF STREETS IN THE RADIUS

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STREET NAME

Arliss St
Avignon Ct
Barton Road
Berkeley Ct
Bostick Ave
Browning Ct
California Ave
Cannes Ave
Cardinal Ct
Center St
W Center St
Chickadee Cir
E Church St
W Church St
Citrus St
Claire St
Cliffhill Pl
Commerce Way
Commercial Ave
Connors Lane
Cordova Ave
Da Berry St
Debbie Lane
Desoto St
Devener St
Dickens Ct
Dove St
Electric Ave
Emerald St
Flamingo St
Flynn St
Fountain St
Franklin St
Fremontia Ave
Fulmar Ct
Garden Ave
Garfield Ave
Glen St
Grand Terrace Road
Graymoor Ave
Harvey Ave
Heron Lane
Highgrove Pl
Highland Ave
Hill St
I- 215 RAMP
Iowa Ave
Kentfield St
La Cadena Dr W
La Crosse Ave
La Loma Ave
La Paix St
Ladera St
Lark St
Linda Ct
W Main St
Manarin Way
Maria Ct
Maryknoll Dr
E Maryknoll Dr
Mavis St
Merryfields Ave
Michigan Ave
Miles Ct
Mirado Ave
Mont Martrie Dr
Mound St
Murphy Ave
Napa Ct
Northgate St
Orange St Ramp
N Orange St
Pacific Ave
Palm Ave
Palmer St
Pascal Ave
Pellisier Road
Pico St
Prospect Ave
Radford Ct
Raven Way
Reed Ave
Rene Lane
Rosa Ct
Rosedale Ave
Royal Ave
Ruby St
San Remo Way
Sanburg Way
Sandburg Way
Sanrive Ave
Seeley Ct
Seville St
Shirley Ct
Spring St
Starling Lane
State Hwy 91 Ramp
Stevens Ave
Stonewood Dr
Storer Ct
Tanager St

ERIIS LIST OF STREETS IN THE RADIUS

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STREET NAME
Tanner Cir
Taylor St
Terrace Ave
Thomas Ct
Tolouse Ave
Toluca Pl
Trabert Cir
Transit Ave
Tulare St
Van Buren St
Versaille Pl
Villa St
Viola Dr
Vivienda Ave
Walker Ave
Waring Ave
Willet Ct
E la Cadena Ave
S la Cadena Dr
W la Cadena Dr

ERIIS SUMMARY OF UNPLOTTABLE SITES
(Facilities sorted alphabetically within ZIP Code)

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ERIIS ID.	FACILITY/STREET	CITY/STATE/ZIP/COUNTY	DATABASE
06055007122	1X JOHN JONES 300 W OLIVE ST UNIT B	COLTON, CA 92324-1765 COUNTY: SAN BERNARDINO	HWIS
06010000670	93537 22890 WASHINGTON ST	COLTON, CA 92324-4609 COUNTY: SAN BERNARDINO	RST
06010002469	ALTA-DENA DRIVE IN #564 1140 N NT VERNON	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST
06010002560	AM PM MINI MARKET 22895 WASHINGTON ST	COLTON, CA 92324-4612 COUNTY: SAN BERNARDINO	RST
06025009782	ARCO SERVICE STATION #1569 792 VALLEY BOULEVARD, WEST	COLTON, CA 92324 COUNTY: SAN BERNARDINO	CORTS
06025009805	ARCO SERVICE STATION #6144 22895 WASHINGTON ST	COLTON, CA 92324-4612 COUNTY: SAN BERNARDINO	CORTS
06003018566	ARROWHEAD WASTE OIL TANK AUTOMOTV 107 S 8TH	COLTON, CA 92324 COUNTY: SAN BERNARDINO	FINDS
06010004332	ARROWHEAD WATERS GARAGE 1071 S 008TH	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST
06005023285	BIG BEAR ROAD YARD 42090 SHORE DR N	BIG BEAR, CA 92324 COUNTY: SAN BERNARDINO	LRST
06010007598	BRAUN INDUSTRIES INC. 925 S 008TH	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST
06003046849	CA PORTLAND CEMENT RANCHO & GEORGIA ST.	COLTON, CA 92324 COUNTY: SAN BERNARDINO	FINDS
06010008688	CAL NEV PIPELINE-COLTON 1901 SLOVER	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST
06010008781	CAL WAL GYSPSIM SUPPLY 125 N 009TH	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST
06025009769	CAL-MAT COMPANY 695 RANCHO AVENUE, SOUTH	COLTON, CA 92324 COUNTY: SAN BERNARDINO	CORTS
06040017403	CAL-NEV PIPELINE 1901 SLOVER AVE	COLTON, CA 92324 COUNTY: SAN BERNARDINO	HWS
06003031535	CALIFORNIA PORTLAND CEMENT 695 RANCHO AVE	COLTON, CA 92324 COUNTY: SAN BERNARDINO	FINDS
06007000485	CALNEV PIPE LINE CO 1901 SLOVER AVE	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RCRIS_LG
06003000911	CALNEV PIPE LINE CO 1901 SLOVER AVE	COLTON, CA 92324 COUNTY: SAN BERNARDINO	FINDS
06003044887	CALTRANS COLTON MAINT STA 309 CONGRESS ST	SAN BERNARDINO, CA 92324 COUNTY: SAN BERNARDINO	FINDS
06007013377	CALTRANS COLTON MAINT STATION 309 CONGRESS ST	SAN BERNARDINO, CA 92324 COUNTY: SAN BERNARDINO	RCRIS_LG
06025009810	CALWAL GYPSUM SUPPLY 125 9TH STREET, NORTH	COLTON, CA 92324 COUNTY: SAN BERNARDINO	CORTS
06003060672	COLTON CHRISTIAN SCH PO BOX 865	COLTON, CA 92324-0804 COUNTY: SAN BERNARDINO	FINDS
06010013902	COLTON CITY YARDS 300 BLOCK EAST H	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST
06010013906	COLTON GAS-UP 420 LA CADENA	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST

ERIIS SUMMARY OF UNPLOTTABLE SITES
(Facilities sorted alphabetically within ZIP Code)

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ERIIS ID.	FACILITY/STREET	CITY/STATE/ZIP/COUNTY	DATABASE
[redacted]6003037492	COLTON JT USD COLTON H SCHL 777 VALLEY	COLTON, CA 92324 COUNTY: SAN BERNARDINO	FINDS
06003037536	COLTON JT USD WAREHOUSE 1313 W VALLEY	COLTON, CA 92324 COUNTY: SAN BERNARDINO	FINDS
[redacted]6003037542	COLTON JT USD TRANSPORTATION 777 W VALLEY	COLTON, CA 92324 COUNTY: SAN BERNARDINO	FINDS
[redacted]6008011383	COLTON LANDFILL TROPICANA RANCHO	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RCRIS_SG
06003044033	COLTON LDFL TROPICANA RANCHO	COLTON, CA 92324 COUNTY: SAN BERNARDINO	FINDS
[redacted]6010013908	COLTON MUFFLER 808 E M	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST
[redacted]6010013971	COMMERCIAL LIGHTING SERVICE 1055 HARBER	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST
06055030887	DEL MAR ANALYTICAL 1014 E COOLEY DR STE F	COLTON, CA 92324-3960 COUNTY: SAN BERNARDINO	HWIS
[redacted]6010016780	DIETRICH INT'L TRUCK SALES 23607 STEEL	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST
[redacted]6040017730	DOUGLAS PRODUCTS-ROWE MARKETING CO. HIGHWAY 99 & WATERMAN AVE	COLTON, CA 92324 COUNTY: SAN BERNARDINO	HWS
06040017383	EAGLE OIL & REFINING INC 363 EAST I	COLTON, CA 92324 COUNTY: SAN BERNARDINO	HWS
[redacted]6010018092	ECOLOGY AUTO WRECKING 501 TROPICO RANCHO	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST
[redacted]6010021684	FORMER TEXACO STATION 12591 LA CADENA	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST
06010023217	GENERAL AMERICAN TRANSPORTATIO PEPPER ST & CLOVER	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST
[redacted]6055024298	GOLDEN ALUMINUM CO 21506 MAIN ST	GRAND TERRACE, CA 92324-5808 COUNTY: SAN BERNARDINO	HWIS
[redacted]6001000460	GUYAUX LANDFILL END OF FLORES & FERNANDO STREET	COLTON, CA 92324 COUNTY: SAN BERNARDINO	CERCLIS
06003054306	GUYAUX LANDFILL END OF FLOREZ AND FERNANDO ST	COLTON, CA 92324 COUNTY: SAN BERNARDINO	FINDS
[redacted]6024002021	GUYAUX LANDFILL S END OF FLORES STREET	COLTON, CA 92324 COUNTY: SAN BERNARDINO	SWAT
[redacted]6040017490	HUB CITY PLATING CO 455 S 8TH	COLTON, CA 92324 COUNTY: SAN BERNARDINO	HWS
06040017478	HUB CITY STRUCTURAL STEEL COMPANY FOGG STREET	COLTON, CA 92324 COUNTY: SAN BERNARDINO	HWS
[redacted]6008007126	INDIAN KNOLL MACHINE SHOP 266 N VALLEY BLVD	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RCRIS_SG
[redacted]6003031552	INDIAN KNOLL MACHINE SHOP 266 N VALLEY BLVD	COLTON, CA 92324 COUNTY: SAN BERNARDINO	FINDS
06055032329	JHBP DBA COLOR CAULK INC 1696 W MILL ST UNIT 14	COLTON, CA 92324-1074 COUNTY: SAN BERNARDINO	HWIS
[redacted]6010029926	JON-LIN INC. 1641 N 008TH	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST

ERIIS SUMMARY OF UNPLOTTABLE SITES
(Facilities sorted alphabetically within ZIP Code)

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ERIIS ID.	FACILITY/STREET	CITY/STATE/ZIP/COUNTY	DATABASE
6008019954	L J SNOW COMPANY 411 LAUREL	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RCRIS_SG
06040017683	M & M AND COMPANY 338 EAST I	COLTON, CA 92324 COUNTY: SAN BERNARDINO	HWS
6055024502	MCNEILUS TRK & MFG PO BOX 1588	COLTON, CA 92324-0849 COUNTY: SAN BERNARDINO	HWIS
6008015560	MIKE THOMPSON REC VEH 910 SANTO ANTONIO DR # 5	COLTON, CA 92324-4304 COUNTY: SAN BERNARDINO	RCRIS_SG
06003050888	MIKE THOMPSON REC VEH 910 SANTO ANTONIO DR 5	COLTON, CA 92324 COUNTY: SAN BERNARDINO	FINDS
6010037691	MONTECITO MEMORIAL PARK BARTON & WATERMAN	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST
6024002029	MONTECITO MEMORIAL PARK SO WATERMAN AVE	COLTON, CA 92324 COUNTY: SAN BERNARDINO	SWAT
06010040624	P & M SERVICE STATIONS #959 1150 MOUNT VERNON	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST
6040017666	REBER AND ALLEN CO. 719 EAST I	COLTON, CA 92324 COUNTY: SAN BERNARDINO	HWS
6010046436	RIVERSIDE STRIPING CO 3777 PLACENTIA	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST
06040017741	ROWE DISTRIBUTING CO HWY 99 & WATERMAN	COLTON, CA 92324 COUNTY: SAN BERNARDINO	HWS
6040017726	SAN BERNARDINO COUNTY LANDFILL TROPICA RANCH RD	COLTON, CA 92324 COUNTY: SAN BERNARDINO	HWS
6010049116	SCE COLTON SUBSTATION MT VERNON	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST
06010049256	SCOTT BUILDING MATERIALS 100 N MAIN	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST
6003057468	SNOW L J COMPANY 411 LAUREL	COLTON, CA 92324 COUNTY: SAN BERNARDINO	FINDS
6003028148	SO CALIF EDISON VISTA SUB 22200 NEWPORT AVE	COLTON, CA 92324 COUNTY: SAN BERNARDINO	FINDS
06010052699	STATER BROS. DEVELOPMENT INC. 375 DE BERRY	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST
6008004970	TAKE-A-PART AUTO WRECKING 501 TROPICO RANCHO RD	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RCRIS_SG
6003026071	TAKE-A-PART AUTO WRECKING 501 TROPICO RANCHO RD	COLTON, CA 92324 COUNTY: SAN BERNARDINO	FINDS
06010054219	TERMINAL STATIONS, INC. 23659 STEEL	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST
6025009700	TERMINAL STATIONS, INC. 23659 STEEL RD	COLTON, CA 92324-4500 COUNTY: SAN BERNARDINO	CORTS
6040017195	TEXAS CO, THE N 10TH	COLTON, CA 92324 COUNTY: SAN BERNARDINO	HWS
06040017729	TOWN GAS PLANT COLTON NUMBER 2 EAST OF 10TH STREET	COLTON, CA 92324 COUNTY: SAN BERNARDINO	HWS
6010057290	UNION OIL SERVICE STATION #656 1496 MOUNT VERNON	COLTON, CA 92324 COUNTY: SAN BERNARDINO	RST

ERIIS SUMMARY OF UNPLOTTABLE SITES
(Facilities sorted alphabetically within ZIP Code)

ERIIS Report #89517A — May 28, 1996

ERIIS ID.	FACILITY/STREET	CITY/STATE/ZIP/COUNTY	DATABASE
[redacted]005028238	USAF GEORGE AFB BX SERVICE GEORGE AFB	GEORGE AFB, CA 92324 COUNTY: SAN BERNARDINO	LRST
06042000840	EAST COUNTY LINE PHILADELPHIA ST & FLOOD CONTROL BASIN	RIVERSIDE, CA COUNTY: RIVERSIDE	SWF
[redacted]042000946	MONTECITO MEMORIAL PARK SO. WATERMAN AVE.	COLTON, CA COUNTY: SAN BERNARDINO	SWF
[redacted]042000780	PANORAMA DUMP SITE PANORAMA RD/91 FREEWAY/SANTA FE RR	RIVERSIDE, CA COUNTY: RIVERSIDE	SWF
06042000830	RIVERSIDE NATIONAL CEMETARY A ST & NANDINA	RIVERSIDE, CA COUNTY: RIVERSIDE	SWF
[redacted]042000842	WADE LANDFILL 11749 ROBERTS ROAD	RIVERSIDE, CA COUNTY: RIVERSIDE	SWF

ERIIS ENVIRONMENTAL DATA REPORT
COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY INFORMATION SYSTEM
CERCLIS - UNPLOTTABLE SITES

ERIIS Report #89517A

May 28, 1996

ERIIS ID / EPA ID	FACILITY	ADDRESS	COUNTY
06001000460 / CAD983652033	GUYAUX LANDFILL	END OF FLORES & FERNANDO STREET COLTON, CA 92324	SAN BERNARDINO

SITE EVENT: DISCOVERY	START DATE: / /	COMPLETION DATE: 11/09/1992	ACTION PRIORITY: BLANK
SITE EVENT: PRELIMINARY ASSESSMENT	START DATE: / /	COMPLETION DATE: 06/10/1993	ACTION PRIORITY: HIGH
SITE EVENT: SCREENING SITE INSPECTION	START DATE: 04/12/1995	COMPLETION DATE: 06/14/1995	ACTION PRIORITY: HIGH
SITE EVENT: LISTING SITE INSPECTION	START DATE: 09/22/1995	COMPLETION DATE: / /	ACTION PRIORITY: BLANK

ERIIS ENVIRONMENTAL DATA REPORT
RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM
RCRIS_LG - UNPLOTTABLE SITES

ERIIS Report #89517A — May 28, 1996

ERIIS ID / EPA ID	FACILITY	ADDRESS	RAATS ISSUE DATE / RAATS ACTION/STATUS / RAATS PENALTIES
06007000485 CAD007907322	CALNEV PIPE LINE CO COUNTY: SAN BERNARDINO	1901 SLOVER AVE COLTON, CA 92324	FACILITY NOT REPORTED IN RAATS

HAZARDOUS WASTES

	WASTE CODE:	AMOUNT OF WASTE:
1.	K052	NOT REPORTED
2.	P110	NOT REPORTED

ERIIS ID / EPA ID	FACILITY	ADDRESS	RAATS ISSUE DATE / RAATS ACTION/STATUS / RAATS PENALTIES
06007013377 CAD982500563	CALTRANS COLTON MAINT STATION COUNTY: SAN BERNARDINO	309 CONGRESS ST SAN BERNARDINO, CA 92324	FACILITY NOT REPORTED IN RAATS

HAZARDOUS WASTES

	WASTE CODE:	AMOUNT OF WASTE:
1.	D000	NOT REPORTED
2.	D001	NOT REPORTED
3.	D002	NOT REPORTED
4.	D003	NOT REPORTED

ERIIS ENVIRONMENTAL DATA REPORT
RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM
RCRIS_SG - UNPLOTTABLE SITES

ERIIS Report #89517A — May 28, 1996

ERIIS ID / EPA ID	FACILITY	ADDRESS	RAATS ISSUE DATE / RAATS ACTION/STATUS / RAATS PENALTIES
)6008004970 CAD981665367	TAKE-A-PART AUTO WRECKING COUNTY: SAN BERNARDINO	501 TROPICO RANCHO RD COLTON, CA 92324	FACILITY NOT REPORTED IN RAATS
)6008007126 CAD982002941	INDIAN KNOLL MACHINE SHOP COUNTY: SAN BERNARDINO	266 N VALLEY BLVD COLTON, CA 92324	FACILITY NOT REPORTED IN RAATS

HAZARDOUS WASTES

	WASTE CODE:	AMOUNT OF WASTE:
1.	D000	NOT REPORTED
2.	D001	NOT REPORTED
3.	D002	NOT REPORTED

ERIIS ID / EPA ID	FACILITY	ADDRESS	RAATS ISSUE DATE / RAATS ACTION/STATUS / RAATS PENALTIES
)6008011383 CAD982485690	COLTON LANDFILL COUNTY: SAN BERNARDINO	TROPICANA RANCHO COLTON, CA 92324	FACILITY NOT REPORTED IN RAATS

HAZARDOUS WASTES

	WASTE CODE:	AMOUNT OF WASTE:
1.	D000	NOT REPORTED
2.	D001	NOT REPORTED
3.	D002	NOT REPORTED
4.	D003	NOT REPORTED

ERIIS ID / EPA ID	FACILITY	ADDRESS	RAATS ISSUE DATE / RAATS ACTION/STATUS / RAATS PENALTIES
)6008019954 CAT080014475	L J SNOW COMPANY COUNTY: SAN BERNARDINO	411 LAUREL COLTON, CA 92324	FACILITY NOT REPORTED IN RAATS

HAZARDOUS WASTES

	WASTE CODE:	AMOUNT OF WASTE:
1.	D000	NOT REPORTED
2.	D001	NOT REPORTED
3.	D006	NOT REPORTED
4.	D007	NOT REPORTED
5.	D018	NOT REPORTED
6.	D039	NOT REPORTED

ERIIS ENVIRONMENTAL DATA REPORT
RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM
RCRIS_SG - UNPLOTTABLE SITES

RIIS Report #89517A

May 28, 1996

RIIS ID / PA ID	FACILITY	ADDRESS	RAATS ISSUE DATE / RAATS ACTION/STATUS / RAATS PENALTIES
6008015560 CAD983616566	MIKE THOMPSON REC VEH COUNTY: SAN BERNARDINO	910 SANTO ANTONIO DR # 5 COLTON, CA 92324-4304	FACILITY NOT REPORTED IN RAATS

HAZARDOUS WASTES

WASTE CODE:	AMOUNT OF WASTE:
D001	NOT REPORTED
D002	NOT REPORTED
F005	NOT REPORTED

ERIIS ENVIRONMENTAL DATA REPORT
FACILITY INDEX SYSTEM
FINDS - UNPLOTTABLE SITES

ERIIS Report #89517A — May 28, 1996

ERIIS ID / EPA ID	FACILITY	FACILITY ADDRESS	SIC CODE(S)
16003000911 CAD007907322	CALNEV PIPE LINE CO	1901 SLOVER AVE COLTON, CA 92324	NOT REPORTED
	TRACKING PROGRAM / LAST UPDATE RCRIS 08/03/95 AFS/AIRS 09/16/93		
16003018566 CAD981438047	ARROWHEAD WASTE OIL TANK AUTOMOTV	107 S 8TH COLTON, CA 92324	NOT REPORTED
	TRACKING PROGRAM / LAST UPDATE RCRIS 09/23/93		
16003026071 CAD981665367	TAKE-A-PART AUTO WRECKING	501 TROPICO RANCHO RD COLTON, CA 92324	NOT REPORTED
	TRACKING PROGRAM / LAST UPDATE RCRIS 08/03/95		
16003028148 CAD981694185	SO CALIF EDISON VISTA SUB	22200 NEWPORT AVE COLTON, CA 92324	NOT REPORTED
	TRACKING PROGRAM / LAST UPDATE RCRIS 09/23/93		
16003031535 CAD982002750	CALIFORNIA PORTLAND CEMENT	695 RANCHO AVE COLTON, CA 92324	NOT REPORTED
	TRACKING PROGRAM / LAST UPDATE RCRIS 02/08/95 AFS/AIRS 09/16/93		
16003031552 CAD982002941	INDIAN KNOLL MACHINE SHOP	266 N VALLEY BLVD COLTON, CA 92324	NOT REPORTED
	TRACKING PROGRAM / LAST UPDATE RCRIS 08/03/95		
16003037492 CAD982331209	COLTON JT USD	COLTON H SCHL 777 VALLEY COLTON, CA 92324	NOT REPORTED
	TRACKING PROGRAM / LAST UPDATE RCRIS 09/23/93		
16003037536 CAD982331746	COLTON JT USD	WAREHOUSE 1313 W VALLEY COLTON, CA 92324	NOT REPORTED
	TRACKING PROGRAM / LAST UPDATE RCRIS 09/23/93		
16003037542 CAD982331803	COLTON JT USD	TRANSPORTATION 777 W VALLEY COLTON, CA 92324	NOT REPORTED
	TRACKING PROGRAM / LAST UPDATE RCRIS 09/23/93		
16003044033 CAD982485690	COLTON LDFL	TROPICANA RANCHO COLTON, CA 92324	NOT REPORTED
	TRACKING PROGRAM / LAST UPDATE RCRIS 08/03/95		
16003044887 CAD982500563	CALTRANS COLTON MAINT STA	309 CONGRESS ST SAN BERNARDINO, CA 92324	NOT REPORTED
	TRACKING PROGRAM / LAST UPDATE		

ERIIS ENVIRONMENTAL DATA REPORT
FACILITY INDEX SYSTEM
FINDS - UNPLOTTABLE SITES

ERIIS Report #89517A — May 28, 1996

ERIIS ID / EPA ID	FACILITY	FACILITY ADDRESS	SIC CODE(S)
	TRACKING PROGRAM: RCRIS	LAST UPDATE: 08/03/95	
16003046849 / CAD983573072	CA PORTLAND CEMENT	RANCHO & GEORGIA ST. COLTON, CA 92324	NOT REPORTED
	TRACKING PROGRAM: AFS/AIRS	LAST UPDATE: 09/16/93	
16003050888 / CAD983616566	MIKE THOMPSON REC VEH	910 SANTO ANTONIO DR 5 COLTON, CA 92324	NOT REPORTED
	TRACKING PROGRAM: RCRIS	LAST UPDATE: 08/03/95	
16003054306 / CAD983652033	GUYAUX LANDFILL	END OF FLOREZ AND FERNANDO ST COLTON, CA 92324	NOT REPORTED
	TRACKING PROGRAM: CERCLIS	LAST UPDATE: 07/27/95	
16003057468 / CAT080014475	SNOW L J COMPANY	411 LAUREL COLTON, CA 92324	NOT REPORTED
	TRACKING PROGRAM: RCRIS	LAST UPDATE: 08/03/95	
16003060672 / CA0000328328	COLTON CHRISTIAN SCH	PO BOX 865 COLTON, CA 92324-0804	NOT REPORTED
	TRACKING PROGRAM: NCDB	LAST UPDATE: 10/31/94	

ERIIS ENVIRONMENTAL DATA REPORT
CALIFORNIA CALSITES
HWS - UNPLOTTABLE SITES

ERIIS Report #89517A

May 28, 199

ERIIS ID FACILITY ID	FACILITY	ADDRESS	CALSITE STATUS GROUNDWATER STATUS	CALSITE STATUS DATE
06040017195 36130008	TEXAS CO, THE	N 10TH COLTON, CA 92324 COUNTY: SAN BERNARDINO	NO FURTHER ACTION FOR DTSC NOT REPORTED	05/31/83
06040017383 36290056	EAGLE OIL & REFINING INC	363 EAST I COLTON, CA 92324 COUNTY: SAN BERNARDINO	NO FURTHER ACTION FOR DTSC NOT REPORTED	05/13/83
06040017403 36300011	CAL-NEV PIPELINE	1901 SLOVER AVE COLTON, CA 92324 COUNTY: SAN BERNARDINO	NO FURTHER ACTION FOR DTSC NOT REPORTED	06/28/83
06040017478 36340007	HUB CITY STRUCTURAL STEEL COMPANY	FOGG STREET COLTON, CA 92324 COUNTY: SAN BERNARDINO	NO FURTHER ACTION FOR DTSC NOT REPORTED	05/16/83
06040017490 36340021	HUB CITY PLATING CO	455 S 8TH COLTON, CA 92324 COUNTY: SAN BERNARDINO	NO FURTHER ACTION FOR DTSC NOT REPORTED	05/16/83
06040017666 36490039	REBER AND ALLEN CO.	719 EAST I COLTON, CA 92324 COUNTY: SAN BERNARDINO	NO FURTHER ACTION FOR DTSC NOT REPORTED	05/13/83
06040017683 36490058	M & M AND COMPANY	338 EAST I COLTON, CA 92324 COUNTY: SAN BERNARDINO	NO FURTHER ACTION FOR DTSC NOT REPORTED	05/13/83
06040017726 36490105	SAN BERNARDINO COUNTY LANDFILL	TROPICA RANCH RD COLTON, CA 92324 COUNTY: SAN BERNARDINO	NO FURTHER ACTION FOR DTSC NOT REPORTED	10/14/94
06040017729 36490108	TOWN GAS PLANT COLTON NUMBER 2	EAST OF 10TH STREET COLTON, CA 92324 COUNTY: SAN BERNARDINO	VOLUNTARY CLEANUP PROGRAM NOT REPORTED	01/25/95
06040017730 36500001	DOUGLAS PRODUCTS-ROWE MARKETING CO.	HIGHWAY 99 & WATERMAN AVE COLTON, CA 92324 COUNTY: SAN BERNARDINO	NO FURTHER ACTION FOR DTSC NOT REPORTED	05/13/83
06040017741 36510003	ROWE DISTRIBUTING CO	HWY 99 & WATERMAN COLTON, CA 92324 COUNTY: SAN BERNARDINO	NO FURTHER ACTION FOR DTSC NOT REPORTED	06/27/83

ERIIS ENVIRONMENTAL DATA REPORT
CALIFORNIA LEAKING UNDERGROUND STORAGE TANKS
LRST - UNPLOTTABLE SITES

ERIIS Report #89517A

May 28, 1996

ERIIS ID	FACILITY	ADDRESS	COUNTY
36005023285	BIG BEAR ROAD YARD	42090 SHORE DR N BIG BEAR, CA 92324	SAN BERNARDINO

CASE NO.	REPORT DATE	CASE TYPE	SUBSTANCE	ABATEMENT METHOD	STATUS
6B3600641T	06/09/94	SOIL ONLY	DIESEL	NOT REPORTED	PRELIMINARY SITE ASSESSMENT UNDERWAY

CASE CLOSED:
REMEDIAL ACTION:
REMEDIATION PLAN:
LEAK BEING CONFIRMED:
POLLUTION CHARACTERIZATION:
POST REMEDIAL ACTION MONITORING:
PRELIMINARY SITE ASSESSMENT UNDERWAY: 05/25/94
PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED:

ERIIS ID	FACILITY	ADDRESS	COUNTY
36005028238	USAF GEORGE AFB BX SERVICE	GEORGE AFB GEORGE AFB, CA 92324	SAN BERNARDINO

CASE NO.	REPORT DATE	CASE TYPE	SUBSTANCE	ABATEMENT METHOD	STATUS
6B3600648T	06/28/94	SOIL ONLY	GASOLINE	EXCAVATE AND TREAT	POLLUTION CHARACTERIZATION

CASE CLOSED:
REMEDIAL ACTION:
REMEDIATION PLAN:
LEAK BEING CONFIRMED:
POLLUTION CHARACTERIZATION: 05/09/94
POST REMEDIAL ACTION MONITORING:
PRELIMINARY SITE ASSESSMENT UNDERWAY:
PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED:

ERIIS ENVIRONMENTAL DATA REPORT
CALIFORNIA SOLID WASTE INFORMATION SYSTEM
SWF - UNPLOTTABLE SITES

RIIS Report #89517A

May 28, 1996

RIIS ID WIS ID	FACILITY	OWNER	CLASSIFICATION CATEGORY	REGULATORY STATUS OPERATIONAL STATUS
6042000946 6-AA-0078	MONTECITO MEMORIAL PARK SO. WATERMAN AVE. COLTON, CA SAN BERNARDINO COUNTY	TRISCOTT W MR WILLIAM TRISCOTT P.O. BOX 5546 SAN BERNARDINO, CA 92412 PHONE: (714) 825-3024	DISPOSAL FACILITY/DS/SWF DISPOSAL ACTIVITY: SOLID WASTE LANDFILL	UNPERMITTED CLOSED
6042000780 3-AA-0020	PANORAMA DUMP SITE PANORAMA RD/91 FREEWAY/SANTA FE RR RIVERSIDE, CA RIVERSIDE COUNTY		ACTIVITY: SOLID WASTE LANDFILL	EXEMPT ACTIVE
6042000830 3-CR-0020	RIVERSIDE NATIONAL CEMETARY A ST & NANDINA RIVERSIDE, CA RIVERSIDE COUNTY	RIVERSIDE NATIONAL CEMETARY 22495 VAN BUREN BL RIVERSIDE, CA 92508 PHONE: (909) 653-8417	ACTIVITY: SOLID WASTE DISPOSAL SITE	TO BE TO BE
6042000840 3-CR-0033	EAST COUNTY LINE PHILADELPHIA ST & FLOOD CONTROL BASIN RIVERSIDE, CA RIVERSIDE COUNTY	RIVERSIDE COUNTY WASTE RESOURCES MGMT DI 1995 MARKET STREET RIVERSIDE, CA 92501 PHONE: (909) 275-1370	ACTIVITY: SOLID WASTE DISPOSAL SITE	TO BE CLOSED
6042000842 3-CR-0035	WADE LANDFILL 11749 ROBERTS ROAD RIVERSIDE, CA RIVERSIDE COUNTY		ACTIVITY: SOLID WASTE DISPOSAL SITE	TO BE TO BE

ERIIS ENVIRONMENTAL DATA REPORT
CALIFORNIA UNDERGROUND STORAGE TANKS
RST - UNPLOTTABLE SITES

ERIIS Report #89517A — May 28, 1996

ERIIS ID	FACILITY	BUSINESS DESCRIPTION	ADDRESS	MANAGER TELEPHONE
36010002469	ALTA-DENA DRIVE IN #564	GASOLINE STATION	1140 N NT VERNON COLTON, CA 92324 COUNTY: SAN BERNARDINO	( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
31	11783 G	NOT REPORTED	INACTIVE	SINGLE WALL	BARE STEEL
31	11783 G	REGULAR UNLEADED	INACTIVE	SINGLE WALL	BARE STEEL

ERIIS ID	FACILITY	BUSINESS DESCRIPTION	ADDRESS	MANAGER TELEPHONE
36010004332	ARROWHEAD WATERS GARAGE	GARAGE	1071 S 008TH COLTON, CA 92324 COUNTY: SAN BERNARDINO	RON LANSING ( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
1	250 G	OIL	ACTIVE	UNKNOWN	BARE STEEL

ERIIS ID	FACILITY	BUSINESS DESCRIPTION	ADDRESS	MANAGER TELEPHONE
36010007598	BRAUN INDUSTRIES INC.	HOSP. LINEN SUPPLY	925 S 008TH COLTON, CA 92324 COUNTY: SAN BERNARDINO	(714) 825-2292

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
1	10000 G	NOT REPORTED	REMOVED	UNKNOWN	UNKNOWN
2	10000 G	NOT REPORTED	ACTIVE	UNKNOWN	UNKNOWN

ERIIS ID	FACILITY	BUSINESS DESCRIPTION	ADDRESS	MANAGER TELEPHONE
36010008688	CAL NEV PIPELINE-COLTON	PIPELINE TERMINAL	1901 SLOVER COLTON, CA 92324 COUNTY: SAN BERNARDINO	HAROLD MOYE ( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
CU-07	5000 G	UNKNOWN	ACTIVE	SINGLE WALL	BARE STEEL

ERIIS ID	FACILITY	BUSINESS DESCRIPTION	ADDRESS	MANAGER TELEPHONE
36010008781	CAL WAL GYSPSIM SUPPLY	DRYWALL SUPPLY HOUSE	125 N 009TH COLTON, CA 92324 COUNTY: SAN BERNARDINO	GENERAL MGR. - JAMES R. SPALDI ( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
1	4000 G	NOT REPORTED	ACTIVE	UNKNOWN	UNKNOWN

ERIIS ID	FACILITY	BUSINESS DESCRIPTION	ADDRESS	MANAGER TELEPHONE
36010013902	COLTON CITY YARDS	GASOLINE STATION	300 BLOCK EAST H COLTON, CA 92324 COUNTY: SAN BERNARDINO	( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
1	1000 G	OIL	ACTIVE	SINGLE WALL	BARE STEEL
2	0 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	BARE STEEL
3	4000 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	BARE STEEL
4	550 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL
5	0 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL
6	550 G	UNKNOWN	ACTIVE	SINGLE WALL	BARE STEEL

ERIIS ID	FACILITY	BUSINESS DESCRIPTION	ADDRESS	MANAGER TELEPHONE
36010013906	COLTON GAS-UP	GASOLINE STATION	420 LA CADENA COLTON, CA 92324 COUNTY: SAN BERNARDINO	( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
1	8000 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL

ERIIS ENVIRONMENTAL DATA REPORT
CALIFORNIA UNDERGROUND STORAGE TANKS
RST - UNPLOTTABLE SITES

ERIIS Report #89517A — May 28, 1996

ERIIS ID	FACILITY	BUSINESS DESCRIPTION	ADDRESS	MANAGER TELEPHONE

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
2	10000 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	BARE STEEL
3	8000 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	BARE STEEL
4	550 G	OIL	ACTIVE	SINGLE WALL	BARE STEEL

)6010013908 COLTON MUFFLER — UNKNOWN — 808 E M, COLTON, CA 92324, COUNTY: SAN BERNARDINO — ( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
	1 G	UNKNOWN	ACTIVE	UNKNOWN	UNKNOWN

)6010013971 COMMERCIAL LIGHTING SERVICE — LIGHTING & SIGN CO. — 1055 HARBER, COLTON, CA 92324, COUNTY: SAN BERNARDINO — RAY EDWARDS - LEASEE — ( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
1	1000 G	EMPTY	ACTIVE	UNKNOWN	BARE STEEL
2	3000 G	EMPTY	ACTIVE	UNKNOWN	BARE STEEL

)6010016780 DIETRICH INT'L TRUCK SALES — SALES — 23607 STEEL, COLTON, CA 92324, COUNTY: SAN BERNARDINO — ( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
	1 G	UNKNOWN	ACTIVE	UNKNOWN	UNKNOWN

)6010018092 ECOLOGY AUTO WRECKING — AUTO WRECKING — 501 TROPICO RANCHO, COLTON, CA 92324, COUNTY: SAN BERNARDINO — ( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
	1 G	UNKNOWN	ACTIVE	UNKNOWN	UNKNOWN

)6010021684 FORMER TEXACO STATION — GASOLINE STATION — 12591 LA CADENA, COLTON, CA 92324, COUNTY: SAN BERNARDINO — ( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
F991800	550 G	OIL	REMOVED	SINGLE WALL	BARE STEEL
F991605	8000 G	REGULAR UNLEADED	REMOVED	SINGLE WALL	BARE STEEL
F991610	8000 G	REGULAR UNLEADED	REMOVED	SINGLE WALL	BARE STEEL
TAG-MISSING	8000 G	NOT REPORTED	REMOVED	SINGLE WALL	BARE STEEL

)6010023217 GENERAL AMERICAN TRANSPORTATIO — RAILCAR REPAIR SHOP — PEPPER ST & CLOVER, COLTON, CA 92324, COUNTY: SAN BERNARDINO — ROBERT C. MERCER — ( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
65-89	1000 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL
65-187	10000 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL
	1 G	UNKNOWN	ACTIVE	UNKNOWN	UNKNOWN

ERIIS ENVIRONMENTAL DATA REPORT
CALIFORNIA UNDERGROUND STORAGE TANKS
RST - UNPLOTTABLE SITES

ERIIS Report #89517A — May 28, 1996

ERIIS ID	FACILITY	BUSINESS DESCRIPTION	ADDRESS	MANAGER TELEPHONE
36010029926	JON-LIN INC.	FOOD PROCESSOR	1641 N 008TH COLTON, CA 92324 COUNTY: SAN BERNARDINO	RUSSELL BURCH ( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
1	1 G	REGULAR UNLEADED	ACTIVE	UNKNOWN	UNKNOWN
2	8000 G	NOT REPORTED	ACTIVE	UNKNOWN	UNKNOWN

36010037691	MONTECITO MEMORIAL PARK	CEMETERY	BARTON & WATERMAN COLTON, CA 92324 COUNTY: SAN BERNARDINO	TONY REYNOSA ( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
4	1000 G	NOT REPORTED	ACTIVE	UNKNOWN	UNKNOWN
3	1000 G	NOT REPORTED	ACTIVE	UNKNOWN	UNKNOWN
1	10000 G	REGULAR UNLEADED	ACTIVE	UNKNOWN	UNKNOWN

36010040624	P & M SERVICE STATIONS #959	GASOLINE STATION	1150 MOUNT VERNON COLTON, CA 92324 COUNTY: SAN BERNARDINO	SARKIS PARSEGHIAN ( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
1	10000 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL
2	10000 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	BARE STEEL
3	10000 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	BARE STEEL
4	280 G	OIL	ACTIVE	SINGLE WALL	BARE STEEL

36010046436	RIVERSIDE STRIPING CO	UNKNOWN	3777 PLACENTIA COLTON, CA 92324 COUNTY: SAN BERNARDINO	( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
	1 G	UNKNOWN	ACTIVE	UNKNOWN	UNKNOWN

36010049116	SCE COLTON SUBSTATION	SERVICE	MT VERNON COLTON, CA 92324 COUNTY: SAN BERNARDINO	( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
	1 G	UNKNOWN	ACTIVE	UNKNOWN	UNKNOWN

36010049256	SCOTT BUILDING MATERIALS	NOT SUPPLIED	100 N MAIN COLTON, CA 92324 COUNTY: SAN BERNARDINO	DALE SCOTT - OWNER ( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
1	10000 G	NOT REPORTED	ACTIVE	UNKNOWN	BARE STEEL
2	10000 G	REGULAR UNLEADED	ACTIVE	UNKNOWN	BARE STEEL

36010052699	STATER BROS. DEVELOPMENT INC.	DEVELOPMENT CO.	375 DE BERRY COLTON, CA 92324 COUNTY: SAN BERNARDINO	GEORGE DE JESUS ( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
1	5000 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL

ERIIS ENVIRONMENTAL DATA REPORT
CALIFORNIA UNDERGROUND STORAGE TANKS
RST - UNPLOTTABLE SITES

ERIIS Report #89517A

May 28, 1996

ERIIS ID	FACILITY	BUSINESS DESCRIPTION	ADDRESS	MANAGER TELEPHONE
36010054219	TERMINAL STATIONS, INC.	GASOLINE STATION	23659 STEEL COLTON, CA 92324 COUNTY: SAN BERNARDINO	SONNY HAIRRELL ( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
1	10000 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL
#2	10000 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL
3	10000 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL
4	10000 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	BARE STEEL
5	10000 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL
6	10000 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL

36010057290	UNION OIL SERVICE STATION #656	GASOLINE STATION	1496 MOUNT VERNON COLTON, CA 92324 COUNTY: SAN BERNARDINO	MURRAY J. MCCLELLAN ( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
6565-33	10000 G	NOT REPORTED	ACTIVE	SINGLE WALL	BARE STEEL
6565-22	10000 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	BARE STEEL
6565-11	10000 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	BARE STEEL

36010000670	93537	GASOLINE STATION	22890 WASHINGTON ST COLTON, CA 92324-4609 COUNTY: SAN BERNARDINO	PREWITT,GEORGE T ( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
1	5000 G	UNKNOWN	ACTIVE	SINGLE WALL	BARE STEEL
2	10000 G	UNKNOWN	ACTIVE	SINGLE WALL	BARE STEEL
3	10000 G	UNKNOWN	ACTIVE	SINGLE WALL	BARE STEEL
4	1000 G	UNKNOWN	ACTIVE	SINGLE WALL	BARE STEEL

36010002560	AM PM MINI MARKET	GASOLINE STATION	22895 WASHINGTON ST COLTON, CA 92324-4612 COUNTY: SAN BERNARDINO	( ) -

OWNER TANK ID	CAPACITY	SUBSTANCE	STATUS	TANK DESCRIPTION	TANK MATERIAL
1	6000 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	BARE STEEL
2	6000 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	BARE STEEL
3	8000 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	BARE STEEL
4	6000 G	REGULAR UNLEADED	ACTIVE	SINGLE WALL	UNKNOWN

ERIIS ENVIRONMENTAL DATA REPORT
CALIFORNIA CORTESE LIST
CORTS - UNPLOTTABLE SITES

ERIIS Report #89517A

May 28, 1996

ERIIS ID	REGULATED BY	FACILITY	ADDRESS	COUNTY
16025009769	LTANK	CAL-MAT COMPANY	695 RANCHO AVENUE, SOUTH COLTON, CA 92324	SAN BERNARDINO
16025009782	LTANK	ARCO SERVICE STATION #1569	792 VALLEY BOULEVARD, WEST COLTON, CA 92324	SAN BERNARDINO
16025009810	LTANK	CALWAL GYPSUM SUPPLY	125 9TH STREET, NORTH COLTON, CA 92324	SAN BERNARDINO
16025009700	LTANK	TERMINAL STATIONS, INC.	23659 STEEL RD COLTON, CA 92324-4500	SAN BERNARDINO
16025009805	LTANK	ARCO SERVICE STATION #6144	22895 WASHINGTON ST COLTON, CA 92324-4612	SAN BERNARDINO

ERIIS ENVIRONMENTAL DATA REPORT
CALIFORNIA HAZARDOUS WASTE INFORMATION SYSTEM
HWIS - UNPLOTTABLE SITES

ERIIS Report #89517A

May 28, 1996

ERIIS ID EPA ID	FACILITY TYPE OF FACILITY	ADDRESS	COUNTY
I6055024502 CAL000010235	MCNEILUS TRK & MFG GENERATOR	PO BOX 1588 COLTON, CA 92324-0849	SAN BERNARDINO
I6055032329 CAL000074657	JHBP DBA COLOR CAULK INC GENERATOR	1696 W MILL ST UNIT 14 COLTON, CA 92324-1074	SAN BERNARDINO
I6055007122 CAC000811560	1X JOHN JONES GENERATOR	300 W OLIVE ST UNIT B COLTON, CA 92324-1765	SAN BERNARDINO
I6055030887 CAL000049350	DEL MAR ANALYTICAL GENERATOR	1014 E COOLEY DR STE F COLTON, CA 92324-3960	SAN BERNARDINO
I6055024298 CAL000007875	GOLDEN ALUMINUM CO GENERATOR	21606 MAIN ST GRAND TERRACE, CA 92324-5808	SAN BERNARDINO

ERIIS ENVIRONMENTAL DATA REPORT
CALIFORNIA SOLID WASTE ASSESSMENT TEST
SWAT - UNPLOTTABLE SITES

ERIIS Report #89517A — May 28, 1996

ERIIS ID.	FACILITY	FACILITY ADDRESS	FACILITY CONTACT FACILITY PHONE	FACILITY TYPE
06024002021 3 360007NUR	GUYAUX LANDFILL	S END OF FLORES STREET COLTON, CA 92324 SAN BERNARDINO COUNTY		

UNIT: 0 — WORKPLAN STATUS: NOT REPORTED — WORKPLAN REMARKS: NONE
REPORT STATUS: NOT REPORTED — REPORT REMARKS: NONE
LEAKAGE REMARKS: NONE — EXTENT REMARKS: NONE
EFFECTS REMARKS: NONE — ADDITIONAL REMARKS: NONE

ERIIS ID.	FACILITY	FACILITY ADDRESS	FACILITY CONTACT FACILITY PHONE	FACILITY TYPE
06024002029 3 360015NUR	MONTECITO MEMORIAL PARK	SO WATERMAN AVE COLTON, CA 92324 SAN BERNARDINO COUNTY		

UNIT: 0 — WORKPLAN STATUS: NOT REPORTED — WORKPLAN REMARKS: NONE
REPORT STATUS: NOT REPORTED — REPORT REMARKS: NONE
LEAKAGE REMARKS: NONE — EXTENT REMARKS: NONE
EFFECTS REMARKS: NONE — ADDITIONAL REMARKS: NONE

APPENDIX D

Historical Documentation and Maps

HISTORIC MAP SEARCH

PERTAINING TO:

12700 TAYLOR STREET
COLTON, CA 92324

REPORT NUMBER: 89517A

No historic map coverage is available for this site in the ERIIS Historic Map Collection, for the period covering the years 1867-1990

[redacted]

ENVIRONMENTAL RISK INFORMATION & IMAGING SERVICES
AERIAL PHOTOGRAPH SEARCH REPORT

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AIC at 1-800-945-9509 or fax this page to AIC at 512-478-5215.

IS Report #89517A

May 28, 1996

VDOR NAME	STREET	STATE	ZIP	PHONE
RICULTURAL STABILIZATION AND CONSERVATION SERVICE	AERAIL PHOTOGRAPHY FIELD OFFICE P O BOX 30010	UT	84130-0010	(801) 975-3503

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1953 OCT 24	VERTICAL CARTO (IMPLIES STEREO)	AXM	20000	8.25in OR 210mm	B&W	0%	20%	RIVERSIDE37-45
1959 OCT 15	VERTICAL CARTO (IMPLIES STEREO)	AXM	20000	8.25in OR 210mm	B&W	0%	20%	RIVERSIDE 6-13
1961 JUN 16	VERTICAL CARTO (IMPLIES STEREO)	AXM	20000	8.25in OR 210mm	B&W	0%	20%	RIVERSIDE19-26
1967 MAY 15	VERTICAL CARTO (IMPLIES STEREO)	AXM	20000	8.25in OR 210mm	B&W	0%	20%	RIVERSIDE13-20
1968 AUG 11	VERTICAL CARTO (IMPLIES STEREO)	AXL	20000	8.25in OR 210mm	B&W	0%	100%	SAN BERN C 6-7
1959 OCT 15	VERTICAL CARTO (IMPLIES STEREO)	AXL	20000	8.25in OR 210mm	B&W	0%	90%	AREA B 5-10
1953 FEB 22	VERTICAL CARTO (IMPLIES STEREO)	AXL	20000	8.25in OR 210mm	B&W	0%	100%	SAN BERN 33-43

; FOREST SERVICE REGION 5 AERIAL PHOTOGRAPHY FIELD OFFICE — P O BOX 30010 — UT — 84130-0010 — (801) 975-3503

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1982	VERTICAL CARTO (IMPLIES STEREO)	615310	40000	3.00in OR 76mm	COLOR	0%	100%	FIRESCOPE 39

TIONAL OCEAN SERVICE NOAA/COAST AND GEODETIC SURVEY SUPPORT — OAA/COAST AND GEODETIC SURVEY S — MD — 20910-3282 — (301) 713-2692

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1947 MAY 17	VERTICAL CARTO (IMPLIES STEREO)	47C-1	24000	3.46in OR 88mm	B&W	0%	60%	65-J 0718-0721
1953 OCT 26	VERTICAL CARTO (IMPLIES STEREO)	53O	24000	6.00in OR 152mm	B&W	0%	60%	66B 0673-0676
1958 SEP 29	VERTICAL CARTO (IMPLIES STEREO)	58W-10	30000	6.00in OR 152mm	B&W	0%	60%	65-J 1256-1260
1958 SEP 29	VERTICAL CARTO (IMPLIES STEREO)	58W-11	30000	6.00in OR 152mm	B&W	0%	30%	65-J 1261-1262
1960 APR 07	VERTICAL CARTO (IMPLIES STEREO)	60S-4	37000	6.00in OR 152mm	B&W	0%	30%	65-J 2166-2168
1960 APR 07	VERTICAL CARTO (IMPLIES STEREO)	60S-5	37000	6.00in OR 152mm	B&W	0%	70%	65-J 2169-2172
1967 JUL 20	VERTICAL CARTO (IMPLIES STEREO)	67S	30000	6.00in OR 152mm	B&W	0%	50%	65-J3 2738-2743
1974 APR 05	VERTICAL CARTO (IMPLIES STEREO)	74L	36000	6.00in OR 152mm	B&W	0%	50%	65-J4 2262-2278
1974 APR 05	VERTICAL CARTO (IMPLIES STEREO)	74L-2	36000	6.00in OR 152mm	B&W	0%	50%	65-J4 2299-2314

AIR FORCE DEPT OF THE AIR FORCE EDC — (800) USA-MAPS

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1948 JUN 15	VERTICAL RECONNAISSANCE	00038	88131	6.00in OR 152mm	B&W	0%	60%	2 8400008
1948 JUN 29	VERTICAL RECONNAISSANCE	00038	69830	1.97in OR 50mm	B&W	0%	80%	2 8730020
1956 JUN 11	VERTICAL RECONNAISSANCE	03125	69699	6.00in OR 152mm	B&W	0%	20%	2 0020016
1956 JUN 11	VERTICAL RECONNAISSANCE	03125	69853	6.00in OR 152mm	B&W	0%	100%	2 0020014
1956 JUN 11	VERTICAL RECONNAISSANCE	03125	70314	6.00in OR 152mm	B&W	0%	40%	2 0020012
1968 JUL 11	VERTICAL RECONNAISSANCE	0027V	148836	1.97in OR 50mm	B&W	0%	90%	2 0010154
1968 JUL 11	VERTICAL RECONNAISSANCE	0027V	148922	1.97in OR 50mm	B&W	0%	90%	2 0010156
1968 JUL 17	VERTICAL RECONNAISSANCE	0059V	124588	1.97in OR 50mm	B&W	0%	20%	2 0060124
1968 JUL 18	VERTICAL RECONNAISSANCE	0064V	136283	1.97in OR 50mm	B&W	0%	50%	2 0090173
1968 JUL 18	VERTICAL RECONNAISSANCE	0064V	136531	1.97in OR 50mm	B&W	0%	60%	2 0090177
1968 JUL 18	VERTICAL RECONNAISSANCE	0064V	136624	1.97in OR 50mm	B&W	0%	20%	2 0090108
1968 JUL 18	VERTICAL RECONNAISSANCE	0064V	136668	1.97in OR 50mm	B&W	0%	70%	2 0090104
1968 JUL 18	VERTICAL RECONNAISSANCE	0064V	136836	1.97in OR 50mm	B&W	0%	90%	2 0090106

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ENVIRONMENTAL RISK INFORMATION & IMAGING SERVICES
AERIAL PHOTOGRAPH SEARCH REPORT

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AIC at 1-800-945-9509 or fax this page to AIC at 512-478-5215.

VDOR NAME	STREET	STATE	ZIP	PHONE

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1938 MAR 15	VERTICAL CARTO (IMPLIES STEREO)	38	4800	6.00in OR 152mm	B&W	0%	20%	COLTON-CA
1938 MAR 15	VERTICAL CARTO (IMPLIES STEREO)	38	4800	6.00in OR 152mm	B&W	0%	70%	SAN BERNARDINO
1938 MAY	VERTICAL CARTO (IMPLIES STEREO)	38	20004	6.00in OR 152mm	B&W	0%	30%	BLOOMINGTON-CA
1942 MAR 29	VERTICAL CARTO (IMPLIES STEREO)	42	9600	6.00in OR 152mm	B&W	0%	70%	COLTON & VIC-CA
1945 JUL 30	VERTICAL CARTO (IMPLIES STEREO)	45	4800	6.00in OR 152mm	B&W	0%	50%	LYTLE-CAJON CRK

I GEOLOGICAL SURVEY RESTON ESIC	507 NATIONAL CENTER	VA	22092	(703) 648-5920

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1952 JUL 11	VERTICAL CARTO (IMPLIES STEREO)	VR	23600	OTHER	B&W	0%	100%	
1966 APR 16	VERTICAL CARTO (IMPLIES STEREO)	VBNF	23686	OTHER	B&W	0%	100%	
1982 SEP 02	VERTICAL CARTO (IMPLIES STEREO)	VEZS	24000	OTHER	B&W	0%	100%	
1975 SEP 18	VERTICAL CARTO (IMPLIES STEREO)	VDOB	80000	OTHER	B&W	0%	100%	
1986 OCT 14	VERTICAL CARTO (IMPLIES STEREO)	VFIXF	39674	OTHER	COLOR	0%	100%	
1988 SEP 01	VERTICAL CARTO (IMPLIES STEREO)	N3417	58000	OTHER	COLOR	0%	100%	
1988 SEP 01	VERTICAL CARTO (IMPLIES STEREO)	N3417	80000	OTHER	B&W	0%	100%	
1980 NOV 15	VERTICAL CARTO (IMPLIES STEREO)	VEZS-3	24000	6.00in OR 152mm	B&W	0%	80%	
1980 NOV 15	VERTICAL CARTO (IMPLIES STEREO)	VEZS-4	24000	6.00in OR 152mm	B&W	0%	30%	
1985 NOV	SLAR	RADSAN	0250000	OTHER	B&W	UNK	100%	SAN BERNARDINO W
1989	VERTICAL CARTO (IMPLIES STEREO)	NP8961	0040000	6.00in OR 152mm	COLOR	0%	60%	NAPP-LEAF ON

TIONAL ARCHIVES & RECORDS ADMIN CARTOGRAPHIC & ARCHITECTURAL BR	8601 ADELPHI RD	MD	20740-6001	(301) 713-7040

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1949 MAY 23	VERTICAL CARTO (IMPLIES STEREO)	AXM	20000	8.25in OR 210mm	B&W	0%	20%	ASCS RIVERSIDE
1949 MAY 21	VERTICAL CARTO (IMPLIES STEREO)	AXL	20000	8.25in OR 210mm	B&W	0%	100%	ASCS SAN BERN

TIONAL AERONAUTICS AND SPACE ADMINISTRATION, AMES RESEARCH CNTR	CONTACT U S GEOLOGICAL SURVEY ESIC OFFICES	(800) USA-MAPS

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1972 JUL 11	VERTICAL RECONNAISSANCE	00498	127000	6.00in OR 152mm	COLOR	0%	100%	572000498 2772 2
1972 JUL 11	VERTICAL RECONNAISSANCE	00498	127000	6.00in OR 152mm	COLOR	0%	20%	572000498 2763 2
1973 MAR 02	VERTICAL RECONNAISSANCE	00972	124000	6.00in OR 152mm	COLOR	40%	100%	573000972 8182 8
1973 MAR 02	VERTICAL RECONNAISSANCE	00972	127000	6.00in OR 152mm	COLOR	90%	90%	573000972 8186 8
1973 JUL 02	VERTICAL RECONNAISSANCE	01301	125000	6.00in OR 152mm	COLOR	0%	80%	573001301 0096 0
1973 JUL 02	VERTICAL RECONNAISSANCE	01301	127000	6.00in OR 152mm	COLOR	0%	80%	573001301 0075 0
1973 DEC 10	VERTICAL RECONNAISSANCE	01562	126000	6.00in OR 152mm	COLOR	0%	100%	573001562 5140 5
1974 MAR 14	VERTICAL RECONNAISSANCE	01651	123000	6.00in OR 152mm	COLOR	0%	30%	574001651 7606 7
1974 MAR 14	VERTICAL RECONNAISSANCE	01651	128000	6.00in OR 152mm	COLOR	0%	100%	574001651 7601 7
1974 JUN 03	VERTICAL RECONNAISSANCE	01804	129000	6.00in OR 152mm	COLOR	10%	100%	574001804 9175 9
1974 OCT 16	VERTICAL RECONNAISSANCE	01945	126000	6.00in OR 152mm	COLOR	0%	100%	574001945 2477 2
1974 NOV 08	VERTICAL RECONNAISSANCE	01972	130000	6.00in OR 152mm	COLOR	0%	100%	574001972 2783 2
1974 NOV 26	VERTICAL RECONNAISSANCE	01974	33000	1.97in OR 50mm	COLOR	0%	100%	574001974 0128 0
1974 NOV 26	VERTICAL RECONNAISSANCE	01975	127000	6.00in OR 152mm	COLOR	0%	100%	574001975 3056 3
1974 NOV 26	VERTICAL RECONNAISSANCE	01975	128000	6.00in OR 152mm	COLOR	0%	80%	574001975 3063 3

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ENVIRONMENTAL RISK INFORMATION & IMAGING SERVICES
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NDOR NAME — STREET — STATE — ZIP — PHONE

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1975 AUG 05	VERTICAL RECONNAISSANCE	02171	32000	1.97in OR 50mm	COLOR	0%	40%	575002171 0296 0
1975 AUG 05	VERTICAL RECONNAISSANCE	02171	32000	1.97in OR 50mm	COLOR	0%	50%	575002171 0108 0
1975 AUG 05	VERTICAL RECONNAISSANCE	02171	33000	1.97in OR 50mm	COLOR	0%	50%	575002171 0113 0
1975 DEC 01	VERTICAL RECONNAISSANCE	02287	32000	1.97in OR 50mm	COLOR	0%	50%	575002287 0106 0
1975 DEC 01	VERTICAL RECONNAISSANCE	02288	128000	1.97in OR 50mm	COLOR	0%	50%	575002288 7381 7
1975 DEC 01	VERTICAL RECONNAISSANCE	02288	128000	1.97in OR 50mm	COLOR	0%	80%	575002288 7395 7
1979 JUN 08	VERTICAL RECONNAISSANCE	02767	128000	1.97in OR 50mm	B&W	0%	50%	579002767 0713 0
1979 JUN 08	VERTICAL RECONNAISSANCE	02767	129500	1.97in OR 50mm	B&W	0%	40%	579002767 0711 0
1979 JUN 08	VERTICAL RECONNAISSANCE	02768	128000	1.97in OR 50mm	COLOR	0%	50%	579002768 6054 6
1979 JUN 08	VERTICAL RECONNAISSANCE	02768	129500	1.97in OR 50mm	COLOR	0%	40%	579002768 6052 6
1979 JUN 08	VERTICAL RECONNAISSANCE	Y2768	130725	1.97in OR 50mm	COLOR	0%	80%	5CITY2768 6049 6
1983 JUL 12	VERTICAL RECONNAISSANCE	03236	131000	1.97in OR 50mm	B&W	0%	100%	583003236 5321 5
1983 JUL 12	VERTICAL RECONNAISSANCE	03236	131000	1.97in OR 50mm	B&W	0%	80%	583003236 5330 5
1983 JUL 13	VERTICAL RECONNAISSANCE	03237	128800	1.97in OR 50mm	COLOR	0%	100%	583003237 5423 5
1983 JUL 13	VERTICAL RECONNAISSANCE	03237	130000	1.97in OR 50mm	COLOR	0%	80%	583003237 5438 5
1988 JUL 27	VERTICAL RECONNAISSANCE	03763	65000	12.00in OR	COLOR	0%	20%	588003763 5144 5
1988 JUL 27	VERTICAL RECONNAISSANCE	03763	65000	12.00in OR	COLOR	0%	30%	588003763 5146 5
1988 SEP 24	VERTICAL RECONNAISSANCE	03813	68000	12.00in OR	COLOR	0%	20%	588003813 8658 8
1988 SEP 24	VERTICAL RECONNAISSANCE	03813	68000	12.00in OR	COLOR	0%	30%	588003813 8660 8
1988 DEC 01	VERTICAL RECONNAISSANCE	03822	58000	12.00in OR	COLOR	0%	40%	588003822 9307 9
1988 DEC 01	VERTICAL RECONNAISSANCE	03822	58000	12.00in OR	COLOR	0%	50%	588003822 9303 9
1988 DEC 01	VERTICAL RECONNAISSANCE	03822	58000	12.00in OR	COLOR	0%	80%	588003822 9170 9
1988 DEC 01	VERTICAL RECONNAISSANCE	03823	119000	1.97in OR 50mm	COLOR	0%	100%	588003823 1062 1
1988 DEC 01	VERTICAL RECONNAISSANCE	03823	119000	1.97in OR 50mm	COLOR	0%	100%	588003823 1132 1
1988 DEC 01	VERTICAL RECONNAISSANCE	03823	119000	1.97in OR 50mm	COLOR	0%	20%	588003823 1130 1
1988 DEC 01	VERTICAL RECONNAISSANCE	03823	119000	1.97in OR 50mm	COLOR	0%	30%	588003823 1136 1
1988 DEC 01	VERTICAL RECONNAISSANCE	03823	119000	1.97in OR 50mm	COLOR	0%	50%	588003823 1138 1
1988 DEC 01	VERTICAL RECONNAISSANCE	03823	119000	1.97in OR 50mm	COLOR	0%	60%	588003823 1060 1
1988 DEC 01	VERTICAL RECONNAISSANCE	03823	119000	1.97in OR 50mm	COLOR	0%	60%	588003823 1134 1
1989 NOV 08	VERTICAL RECONNAISSANCE	03973	65000	12.00in OR	COLOR	0%	50%	589003973 5729 5
1990 JUL 16	VERTICAL RECONNAISSANCE	04054	63000	12.00in OR	COLOR	0%	30%	590004054 6176 6
1990 JUL 16	VERTICAL RECONNAISSANCE	04054	63000	12.00in OR	COLOR	0%	30%	590004054 6195 6
1990 JUL 25	VERTICAL RECONNAISSANCE	04078	62000	12.00in OR	COLOR	0%	80%	590004078 2932 2

TIONAL AERONAUTICS AND SPACE ADMINISTRATION, JS — JOHNSON SPACE CENTER — (800) USA-MPAS

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1970 MAY 14	VERTICAL RECONNAISSANCE	128B	49843	12.00in OR	COLOR	0%	60%	6128B0100 0024 0
1970 MAY 14	VERTICAL RECONNAISSANCE	128B	50429	12.00in OR	COLOR	0%	20%	6128B0100 0003 0
1970 MAY 14	VERTICAL RECONNAISSANCE	128B	97038	6.00in OR 152mm	B&W	0%	100%	6128B0120 3138 3
1970 MAY 14	VERTICAL RECONNAISSANCE	128B	99533	6.00in OR 152mm	B&W	0%	70%	6128B0120 3129 3
1970 MAY 14	VERTICAL RECONNAISSANCE	128B	99836	6.00in OR 152mm	COLOR	0%	70%	6128B0110 3544 3
1970 MAY 14	VERTICAL RECONNAISSANCE	128B	99860	6.00in OR 152mm	COLOR	0%	100%	6128B0110 3553 3
1971 MAR 30	VERTICAL RECONNAISSANCE	1640	61771	12.00in OR	COLOR	0%	60%	616400030 0015 0
1971 MAR 30	VERTICAL RECONNAISSANCE	1640	120135	6.00in OR 152mm	COLOR	0%	60%	616400010 3010 3
1971 MAR 30	VERTICAL RECONNAISSANCE	1640	121068	6.00in OR 152mm	COLOR	0%	60%	616400020 3252 3
1971 MAR 30	VERTICAL RECONNAISSANCE	1640	121643	6.00in OR 152mm	COLOR	0%	100%	616400010 3017 3

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ENVIRONMENTAL RISK INFORMATION & IMAGING SERVICES
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NDOR NAME	STREET	STATE	ZIP	PHONE

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1971 APR 01	VERTICAL RECONNAISSANCE	1640	58372	12.00in OR	COLOR	0%	20%	616400220 0132 0
1971 APR 01	VERTICAL RECONNAISSANCE	1640	118218	6.00in OR 152mm	COLOR	0%	100%	616400190 3320 3
1971 APR 01	VERTICAL RECONNAISSANCE	1640	118836	6.00in OR 152mm	COLOR	0%	80%	616400210 3561 3
1971 APR 05	VERTICAL RECONNAISSANCE	1640	63428	12.00in OR	COLOR	0%	50%	616400520 0262 0
1971 APR 05	VERTICAL RECONNAISSANCE	1640	118991	6.00in OR 152mm	COLOR	10%	100%	616400490 4030 4
1971 APR 05	VERTICAL RECONNAISSANCE	1640	118991	6.00in OR 152mm	COLOR	10%	100%	616400510 4272 4
1971 APR 05	VERTICAL RECONNAISSANCE	1640	121146	6.00in OR 152mm	COLOR	0%	70%	616400490 4021 4
1971 APR 05	VERTICAL RECONNAISSANCE	1640	121146	6.00in OR 152mm	COLOR	0%	70%	616400510 4263 4
1973 JUN 04	VERTICAL RECONNAISSANCE	2390	64011	12.00in OR	COLOR	0%	50%	623900180 0216 0

RCHILD NATIONAL INC — 413 AZALEA WAY — AL — 35215 — (205) 853-3641

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1977 FEB 00	VERTICAL RECONNAISSANCE	SBRN77	27600	6.00in OR 152mm	B&W	0%	20%	SAN BERNARDINO
1977 FEB 00	VERTICAL RECONNAISSANCE	SBRN77	27600	6.00in OR 152mm	B&W	0%	70%	SAN BERNARDINO

?P AERIAL PHOTOGRAPHY INC — 4811 NORTH SEVENTH ST SUITE B — AZ — 85014 — (602) 277-0439

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1988 JUN 03	VERTICAL RECONNAISSANCE	RUP-CA	36000	6.00in OR 152mm	B&W	0%	20%	RIVERSIDE CO.
1988 JUN 03	VERTICAL RECONNAISSANCE	RUP-CA	36000	6.00in OR 152mm	B&W	0%	90%	SAN BERNARDNO CO

LIFORNIA DEPT OF WATER RESOURCES — P O BOX 942836 1416 NINTH ST RM 150 — CA — 94236-0001 — (916) 653-2698

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1983	VERTICAL RECONNAISSANCE	SBD	50000	OTHER	COLOR	0%	80%	IRRIGATED LANDS

CIFIC AERIAL SURVEYS — 8407 EDGEWATER DR — CA — 94621 — (510) 632-2020

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1988 FEB	VERTICAL CARTO (IMPLIES STEREO)	RIV-CO	40000	6.00in OR 152mm	B&W	0%	20%	RIVERSIDE CO.
1988 FEB	VERTICAL CARTO (IMPLIES STEREO)	RIV-CO	40000	6.00in OR 152mm	B&W	0%	90%	SAN BERNARDNO CO

RIAL MAP INDUSTRIES — 17972 SKY PARK CIRCLE SUITE J — CA — 92714 — (714) 250-7374

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1963	VERTICAL RECONNAISSANCE	SB63	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1964	VERTICAL RECONNAISSANCE	SB64	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1965	VERTICAL RECONNAISSANCE	SB65	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1966	VERTICAL RECONNAISSANCE	SB66	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1967	VERTICAL RECONNAISSANCE	SB67	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1968	VERTICAL RECONNAISSANCE	SB68	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1969	VERTICAL RECONNAISSANCE	SB69	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1970	VERTICAL RECONNAISSANCE	SB70	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO

[redacted]

ENVIRONMENTAL RISK INFORMATION & IMAGING SERVICES
AERIAL PHOTOGRAPH SEARCH REPORT

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AIC at 1-800-945-9509 or fax this page to AIC at 512-478-5215.

NDOR NAME | STREET | STATE | ZIP | PHONE

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1971	VERTICAL RECONNAISSANCE	SB71	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1972	VERTICAL RECONNAISSANCE	SB72	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1973	VERTICAL RECONNAISSANCE	SB73	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1974	VERTICAL RECONNAISSANCE	SB74	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1975	VERTICAL RECONNAISSANCE	SB75	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1976	VERTICAL RECONNAISSANCE	SB76	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1977	VERTICAL RECONNAISSANCE	SB77	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1978	VERTICAL RECONNAISSANCE	SB78	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1979	VERTICAL RECONNAISSANCE	SB79	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1980	VERTICAL RECONNAISSANCE	SB80	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1981	VERTICAL RECONNAISSANCE	SB81	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1982	VERTICAL RECONNAISSANCE	SB82	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1983 MAR	VERTICAL RECONNAISSANCE	SB83	36000	6.00in OR 152mm	B&W	0%	80%	SAN BERDINO. CO.
1984	VERTICAL RECONNAISSANCE	SB84	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1985	VERTICAL RECONNAISSANCE	SB85	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1986	VERTICAL RECONNAISSANCE	SB86	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1987	VERTICAL RECONNAISSANCE	SB87	0036000	6.00in OR 152mm	COLOR	0%	80%	SN BERNARDINO CO
1988	VERTICAL RECONNAISSANCE	SB88	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1989	VERTICAL RECONNAISSANCE	SB89	0036000	6.00in OR 152mm	COLOR	0%	80%	SN BERNARDINO CO
1990	VERTICAL RECONNAISSANCE	SB90	0036000	6.00in OR 152mm	B&W	0%	80%	SN BERNARDINO CO
1991	VERTICAL RECONNAISSANCE	SB91	0036000	6.00in OR 152mm	COLOR	0%	80%	SN BERNARDINO CO
1981 APR 21	VERTICAL CARTO (IMPLIES STEREO)	TBSBD	36000	6.00in OR 152mm	B&W	0%	100%	SAN BERDU.CITY

JNTY OF RIVERSIDE, CALIFORNIA FLOOD CONTROL DIST | P O BOX 1033 1995 MARKET ST | CA | 92501 | (714) 275-1220

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1990 MAR 15	VERTICAL CARTO (IMPLIES STEREO)	RCFCD	19200	6.00in OR 152mm	B&W	0%	20%	RIVERSIDE CO.
1974 APR	VERTICAL CARTO (IMPLIES STEREO)	RIVCO	24000	6.00in OR 152mm	B&W	0%	50%	RIVERSIDE CO.
1980 MAY	VERTICAL CARTO (IMPLIES STEREO)	RIVCO	12000	6.00in OR 152mm	B&W	0%	50%	RIVERSIDE CO.

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DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1978 MAR	VERTICAL CARTO (IMPLIES STEREO)	78049	24000	6.00in OR 152mm	B&W	0%	20%	RIVERSIDE AREA

WSTER PACIFIC CORP | 131 NORTH SAN GABRIEL BLVD | CA | 91107 | (818) 449-8162

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1990 JUL	VERTICAL RECONNAISSANCE	BPCRIV	0033600	6.00in OR 152mm	COLOR	0%	100%	RIVERSIDE CO.
1990 JUL	VERTICAL RECONNAISSANCE	BPCSBD	0033600	6.00in OR 152mm	COLOR	0%	100%	SN BERNARDINO CO
1993 DEC	VERTICAL RECONNAISSANCE	BPC93	0036000	6.00in OR 152mm	COLOR	0%	100%	LA BASIN

CURTIS SERVICES INC | 2907 EMPIRE AVE | CA | 91504 | (818) 842-5127

DATE OF		PROJECT				CLOUD	QUADRANGLE	

ENVIRONMENTAL RISK INFORMATION & IMAGING SERVICES
AERIAL PHOTOGRAPH SEARCH REPORT

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DOR NAME	STREET	STATE	ZIP	PHONE

)ATE OF :OVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
983 DEC	VERTICAL CARTO (IMPLIES STEREO)		36000	6.00in OR 152mm	COLOR	0%	80%	SAN BERDINO, CO.
985 MAR	VERTICAL CARTO (IMPLIES STEREO)	IKC-85	36000	6.00in OR 152mm	COLOR	0%	100%	SAN BERNARDNO CO
985 MAR	VERTICAL CARTO (IMPLIES STEREO)	IKC-85	36000	6.00in OR 152mm	COLOR	0%	20%	RIVERSIDE COUNTY
987 FEB	VERTICAL CARTO (IMPLIES STEREO)	IKC-87	36000	6.00in OR 152mm	COLOR	0%	90%	SAN BERNARDINO C
992 JAN	VERTICAL CARTO (IMPLIES STEREO)	IKCS	0036000	6.00in OR 152mm	COLOR	0%	20%	RIVERSIDE COUNTY
992 JAN	VERTICAL CARTO (IMPLIES STEREO)	IKCS	0036000	6.00in OR 152mm	COLOR	0%	100%	SAN BERNARDNO CO

AL FOTOBANK INC	6181 CORNERSTONE CT EAST #106	CA	92121	(614) 455-0780

)ATE OF :OVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
989 JAN	VERTICAL RECONNAISSANCE	FOTO89	36000	6.00in OR 152mm	COLOR	0%	20%	RIVERSIDE CO.
991 JAN	VERTICAL RECONNAISSANCE	FOTO91	0036000	6.00in OR 152mm	COLOR	0%	20%	RIVERSIDE CO.
989 JAN	VERTICAL RECONNAISSANCE	FOTO89	36000	6.00in OR 152mm	COLOR	0%	80%	SAN BERNARDINO
991 JAN	VERTICAL RECONNAISSANCE	FOTO91	0036000	6.00in OR 152mm	COLOR	0%	80%	SAN BERNARDINO
993 FEB	VERTICAL CARTO (IMPLIES STEREO)	FOTO93	0048000	6.00in OR 152mm	COLOR	0%	100%	ANNUAL FLIGHT
992 JAN 15	VERTICAL RECONNAISSANCE	FOTO92	0048000	6.00in OR 152mm	COLOR	0%	100%	ANNUAL FLIGHT
992 JAN 15	VERTICAL RECONNAISSANCE	FOTO92	0048000	6.00in OR 152mm	COLOR	0%	100%	ANNUAL FLIGHT
993 JUL	VERTICAL CARTO (IMPLIES STEREO)	SCAG93	0048000	6.00in OR 152mm	COLOR	0%	100%	ANNUAL FLIGHT
988 JAN	VERTICAL RECONNAISSANCE	SAN-88	36000	6.00in OR 152mm	COLOR	0%	100%	SAN DIEGO AREA
988 JAN	VERTICAL RECONNAISSANCE	SAN-88	36000	6.00in OR 152mm	B&W	0%	100%	SAN DIEGO AREA
989 MAR	VERTICAL RECONNAISSANCE	FOTO89	0036000	6.00in OR 152mm	COLOR	0%	100%	SW-CA/T BROS IDX

) TECH SURVEYS	6810 AIRPORT DR	CA	92504	(714) 785-0160

ATE OF OVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
988 JUN	VERTICAL RECONNAISSANCE	EMWD	0024000	6.00in OR 152mm	B&W	0%	20%	RIVERSIDE
979 MAY	VERTICAL CARTO (IMPLIES STEREO)	IMA	48000	6.00in OR 152mm	B&W	0%	100%	INLAND MET.AREA

)RIAL CRAFTS INC	3385 ARLINGTON AVE SUITE A	CA	92504	(714) 369-6211

ATE OF OVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
979 MAY 10	VERTICAL CARTO (IMPLIES STEREO)	SB-79	48000	6.00in OR 152mm	B&W	0%	80%	SAN BERNARDINO

:IC AEROGRAPHICS	425 EAST COLUMBINE AVE	CA	92707	(714) 546-3823

ATE OF OVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
983 FEB	VERTICAL RECONNAISSANCE	PA-83	36000	6.00in OR 152mm	B&W	0%	100%	SAN BERNARDNO CO
984 FEB	VERTICAL RECONNAISSANCE	PA-84	36000	6.00in OR 152mm	B&W	0%	100%	SAN BERNARDNO CO
985 FEB	VERTICAL RECONNAISSANCE	PA-85	36000	6.00in OR 152mm	B&W	0%	100%	SAN BERNARDNO CO

TIER COLLEGE DEPT OF GEOLOGY	13406 EAST PHILADELPHIA ST	CA	90608	(310) 907-4220

ATE OF OVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS

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ENVIRONMENTAL RISK INFORMATION & IMAGING SERVICES
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NDOR NAME	STREET	STATE	ZIP	PHONE

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1960 MAY 12	VERTICAL CARTO (IMPLIES STEREO)	C23870	14400	6.00in OR 152mm	B&W	0%	100%	SAN BERNARDNO CO
1930	VERTICAL CARTO (IMPLIES STEREO)	C910	16800	8.25in OR 210mm	B&W	0%	90%	
1931 SEP	VERTICAL CARTO (IMPLIES STEREO)	C1740	15840	12.00in OR	B&W	0%	30%	
1936 JUN 11	VERTICAL CARTO (IMPLIES STEREO)	C4061	15840	8.25in OR 210mm	B&W	0%	30%	
1938 MAR 13	VERTICAL CARTO (IMPLIES STEREO)	C5042	28800	6.00in OR 152mm	B&W	0%	50%	
1939	VERTICAL CARTO (IMPLIES STEREO)	C5750	20000	8.25in OR 210mm	B&W	0%	90%	
1939	VERTICAL CARTO (IMPLIES STEREO)	C5846	18000	8.25in OR 210mm	B&W	0%	30%	
1943 MAR 12	VERTICAL CARTO (IMPLIES STEREO)	C8305	14400	12.00in OR	B&W	0%	70%	
1946	VERTICAL CARTO (IMPLIES STEREO)	C10835	14400	12.00in OR	B&W	0%	50%	
1946	VERTICAL CARTO (IMPLIES STEREO)	C10835	14400	12.00in OR	B&W	0%	60%	
1952 MAY	VERTICAL CARTO (IMPLIES STEREO)	C17620	9600	12.00in OR	B&W	0%	100%	
1953 APR 09	VERTICAL CARTO (IMPLIES STEREO)	C18930	9600	12.00in OR	B&W	0%	60%	
1955	VERTICAL CARTO (IMPLIES STEREO)	C22250	12000	12.00in OR	B&W	0%	70%	

TORIAL SCIENCES INC SAN BERNARDINO	1097 WEST BASELINE RD	CA	92411	(714) 888-5795

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1987 MAY 28	VERTICAL CARTO (IMPLIES STEREO)	8547	12000	6.00in OR 152mm	B&W	0%	40%	N.HIGHLAND-REDL.

V OF CALIFORNIA, SANTA BARBARA	MAP AND IMAGERY LABORATORY LIBRARY	CA	93106	(805) 893-4049

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1943 MAR 12	VERTICAL CARTO (IMPLIES STEREO)	C8305	15840	12.00in OR	B&W	0%	80%	
1953 JUN	VERTICAL CARTO (IMPLIES STEREO)	C19350	7200	8.25in OR 210mm	B&W	0%	80%	
1977 MAY	VERTICAL CARTO (IMPLIES STEREO)	7700	24000	6.00in OR 152mm	B&W	0%	100%	E.LA BASIN
1977 MAY	VERTICAL CARTO (IMPLIES STEREO)	7700	24000	6.00in OR 152mm	B&W	0%	80%	

IDMARK AERIAL PHOTOGRAPHY	1410 INDUSTRIAL PARK AVE	CA	92374	(909) 485-9000

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1986 FEB	OBLIQUE	3450	6000	4.13in OR 105mm	COLOR	0%	20%	COLTON CA

NTINENTAL AERIAL PHOTO INC	10571 CALLE LEE SUITE 163	CA	90720	(714) 236-9084

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1978 MAR	VERTICAL CARTO (IMPLIES STEREO)	78049	24000	6.00in OR 152mm	B&W	0%	20%	AAS-RIVERSIDE
1987 JAN	VERTICAL CARTO (IMPLIES STEREO)	RIV-87	36000	6.00in OR 152mm	COLOR	0%	20%	RIVERSIDE CO.
1987 JAN	VERTICAL CARTO (IMPLIES STEREO)	SBD-87	36000	6.00in OR 152mm	COLOR	0%	90%	SAN BERNARDNO CO
1993 JUN	VERTICAL CARTO (IMPLIES STEREO)	CAP93	0024000	6.00in OR 152mm	B&W	0%	100%	SO. CA COVERAGE

LE AERIAL PHOTOGRAPHY	3198K AIRPORT LOOP DR	CA	92626	(714) 754-7670

DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS

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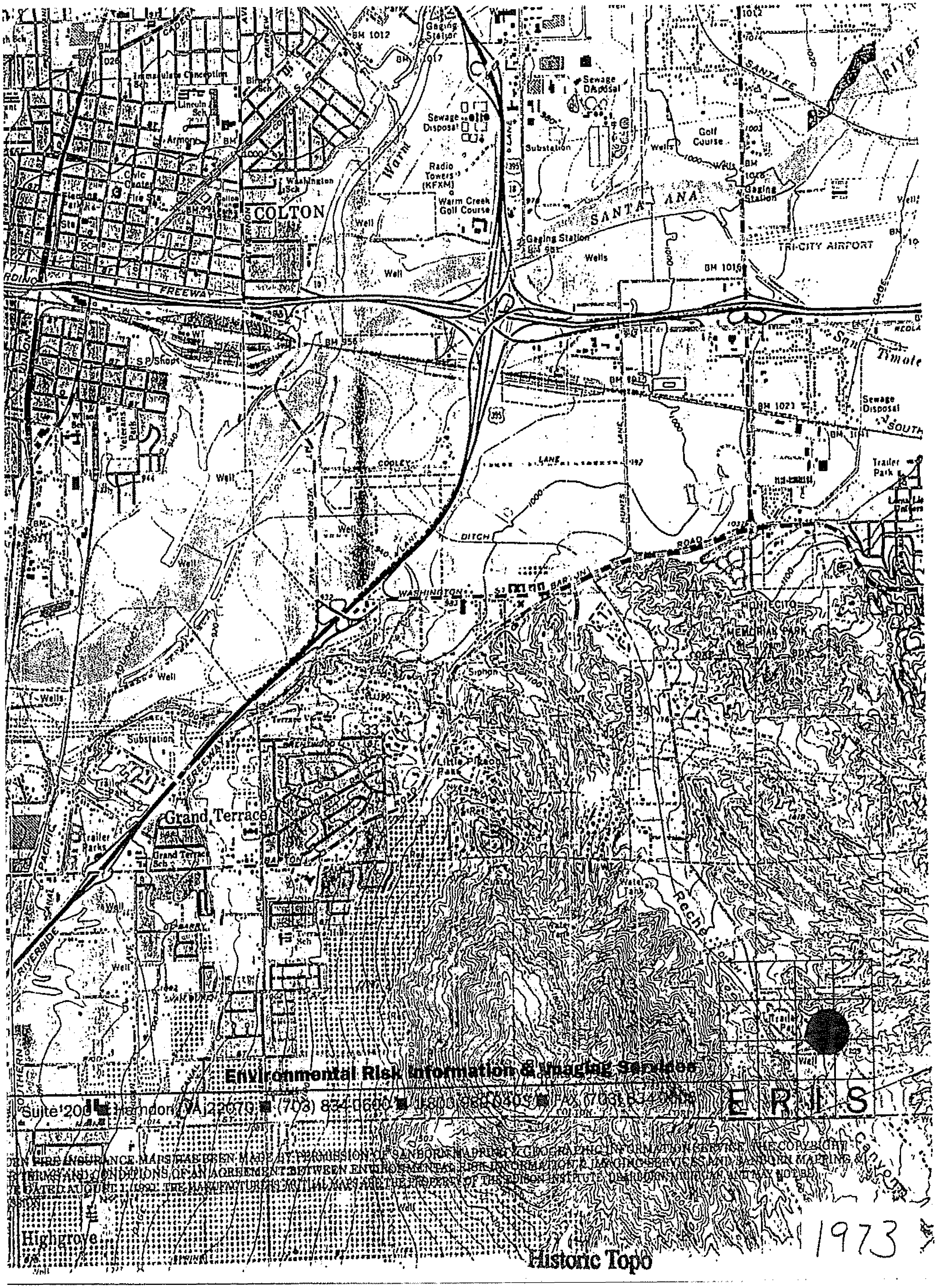
DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1989	VERTICAL RECONNAISSANCE	RV-89	0032400	6.00in OR 152mm	COLOR	0%	20%	RIVERSIDE COUNTY
1989 JAN	VERTICAL RECONNAISSANCE	EGL-89	36000	6.00in OR 152mm	COLOR	0%	20%	RIVERSIDE COUNTY
1990	VERTICAL RECONNAISSANCE	RV-90	0032400	6.00in OR 152mm	COLOR	0%	20%	RIVERSIDE COUNTY

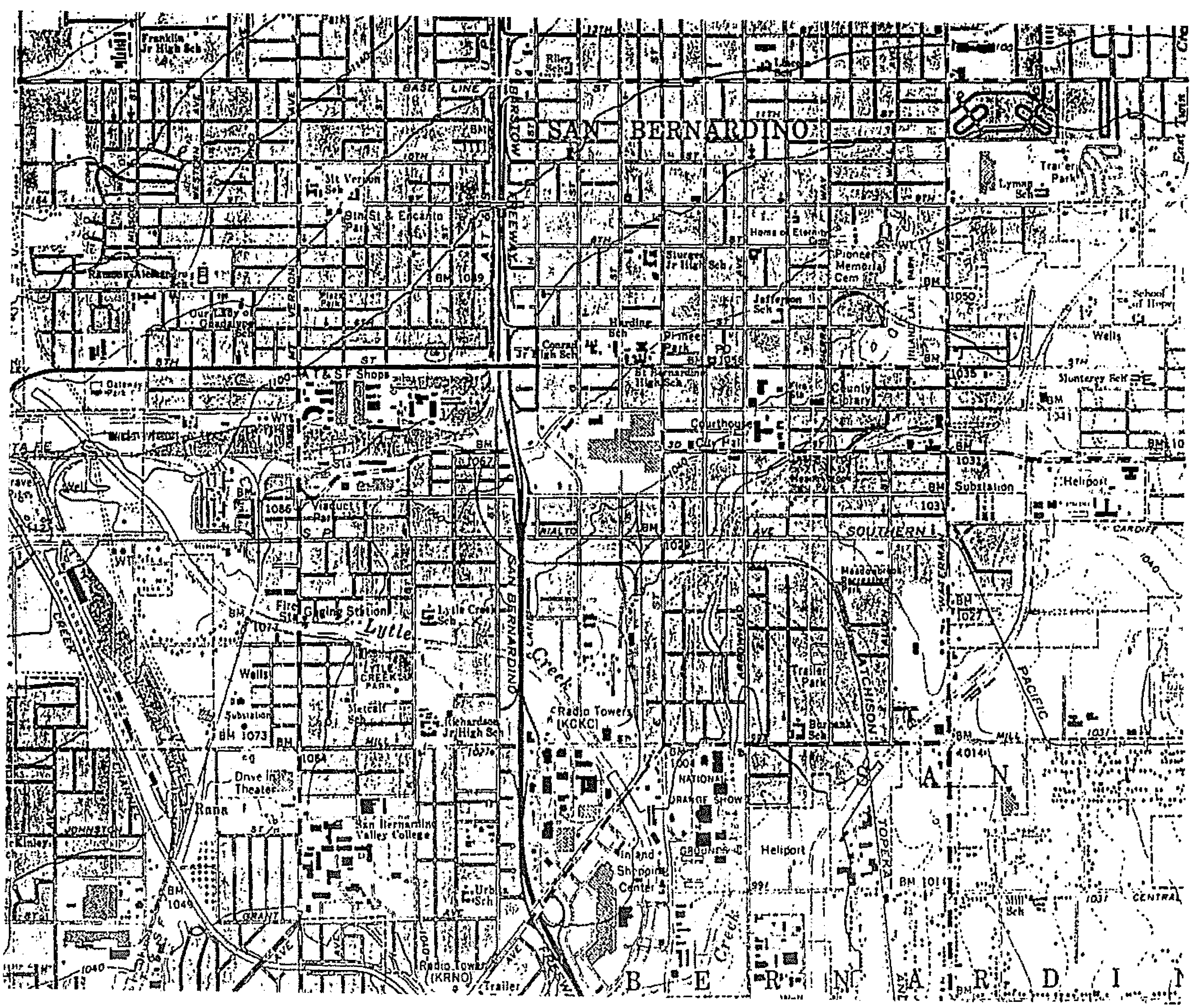
VVIEW AERIAL PHOTO INC	2056 PALOMAR AIRPORT RD #G	CA	92008	(714) 498-9757

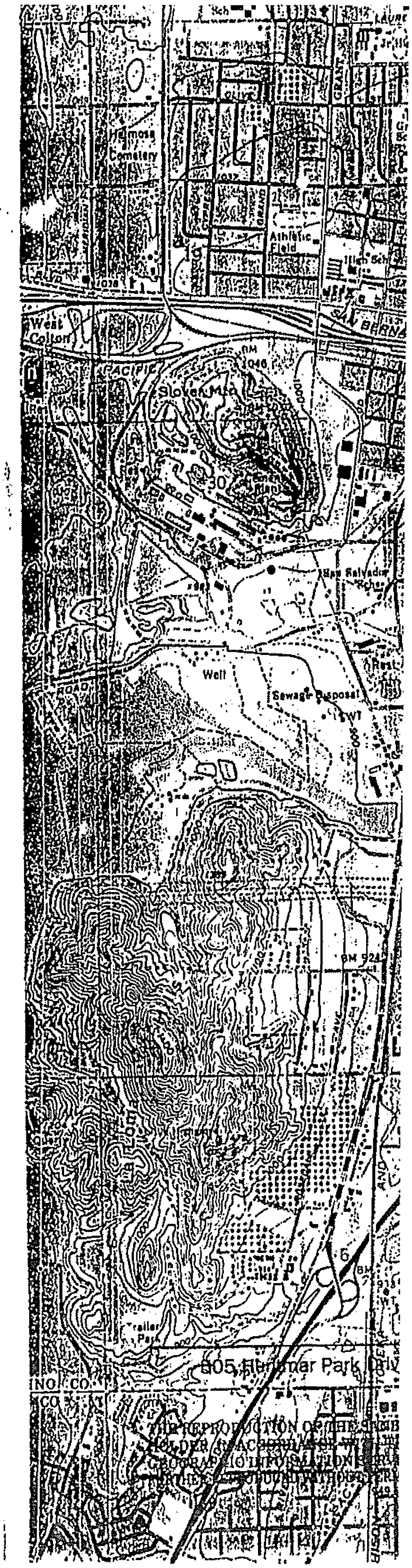
DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1990 MAY	VERTICAL RECONNAISSANCE	SBRV90	0036000	6.00in OR 152mm	B&W	0%	20%	RIVERSIDE CO.
1990 MAY	VERTICAL RECONNAISSANCE	SBRV90	0036000	6.00in OR 152mm	B&W	0%	100%	SAN BERNARDINO

'CHELL SPECIALIZED PHOTOGRAPHIC SERVICES	7625 HAVENHURST AVE #48	CA	91406	(818) 786-9805

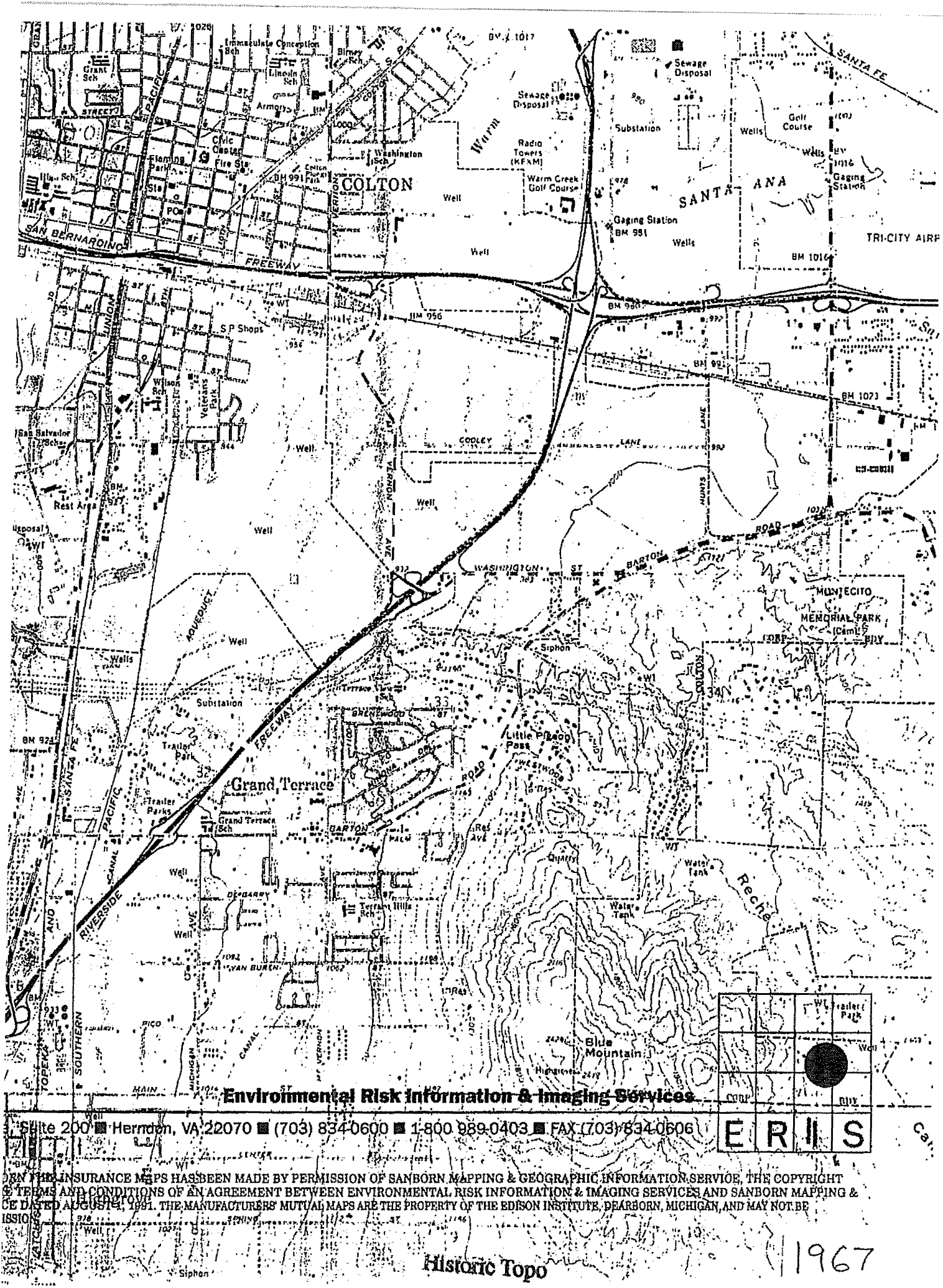
DATE OF COVERAGE	SENSOR CLASS	PROJECT CODE	SCALE	FOCAL LENGTH	FILM TYPE	CLOUD COVER	QUADRANGLE COVERAGE	REMARKS
1990 AUG	VERTICAL CARTO (IMPLIES STEREO)	MITCHL	0036000	6.00in OR 152mm	COLOR	0%	90%	SAN BERNARDNO CO


COLTON
Grand Terrace
Highgrove
SANTA ANA
TRI-CITY AIRPORT
FREEWAY
RIVERSIDE
PACIFIC
WASHINGTON
BARTON ROAD
COOLEY
DITCH
HUNTS LANE
Reche
MONTECITO MEMORIAL PARK
Little Pilgrim Park
Veterans Park
Warm Creek Golf Course
Radio Towers (KFXM)
Sewage Disposal
Substation
Gaging Station
Golf Course
Immaculate Conception
Lincoln Sch
Binney Sch
Washington Sch
Civic Center
S P Shops
Trailer Park
Wells
Well
Environmental Risk Information & Imaging Services
Suite 200 ■ Herndon, VA 22070 ■ (703) 834-0600 ■ 1-800-989-0403 ■ FAX (703) 834-0606
E R I S
Historic Topo
1973


SAN BERNARDINO
Franklin Jr High Sch
Riley Sch
BASE LINE
Lytle Creek
Lytle Creek Sch
Stt Vernon Sch
8th St & Encanto Park
Sturges Jr High Sch
Pioneer Memorial Cem
Jefferson Sch
Harding Sch
Conrad Sch
Prince Park
St Bernardino High Sch
Courthouse
City Hall
County Library
AT & SF Shops
Viaduct Park
Heliport
Substation
SOUTHERN
PACIFIC
Trailer Park
Lyman Sch
School of Hope
Wells
Monterey Sch
Fire Sta
Gaging Station
Lytle Creek Park
Metcalf Sch
Richardson Jr High Sch
Radio Towers (KCKC)
Drive In Theater
San Bernardino Valley College
NATIONAL ORANGE SHOW GROUNDS
Inland Shopping Center
Urbita Sch
Radio Tower (KRNO)
Trailer
Burbank Sch
ATCHISON
TOPEKA
CENTRAL
Mill Sch
Our Lady of Guadalupe
Ramona Alessandro Sch
RIALTO
FREEWAY
BARSTOW
Meadowbrook Recreation Park
Home of Eternity Cem
CREEK
BERNARDINO

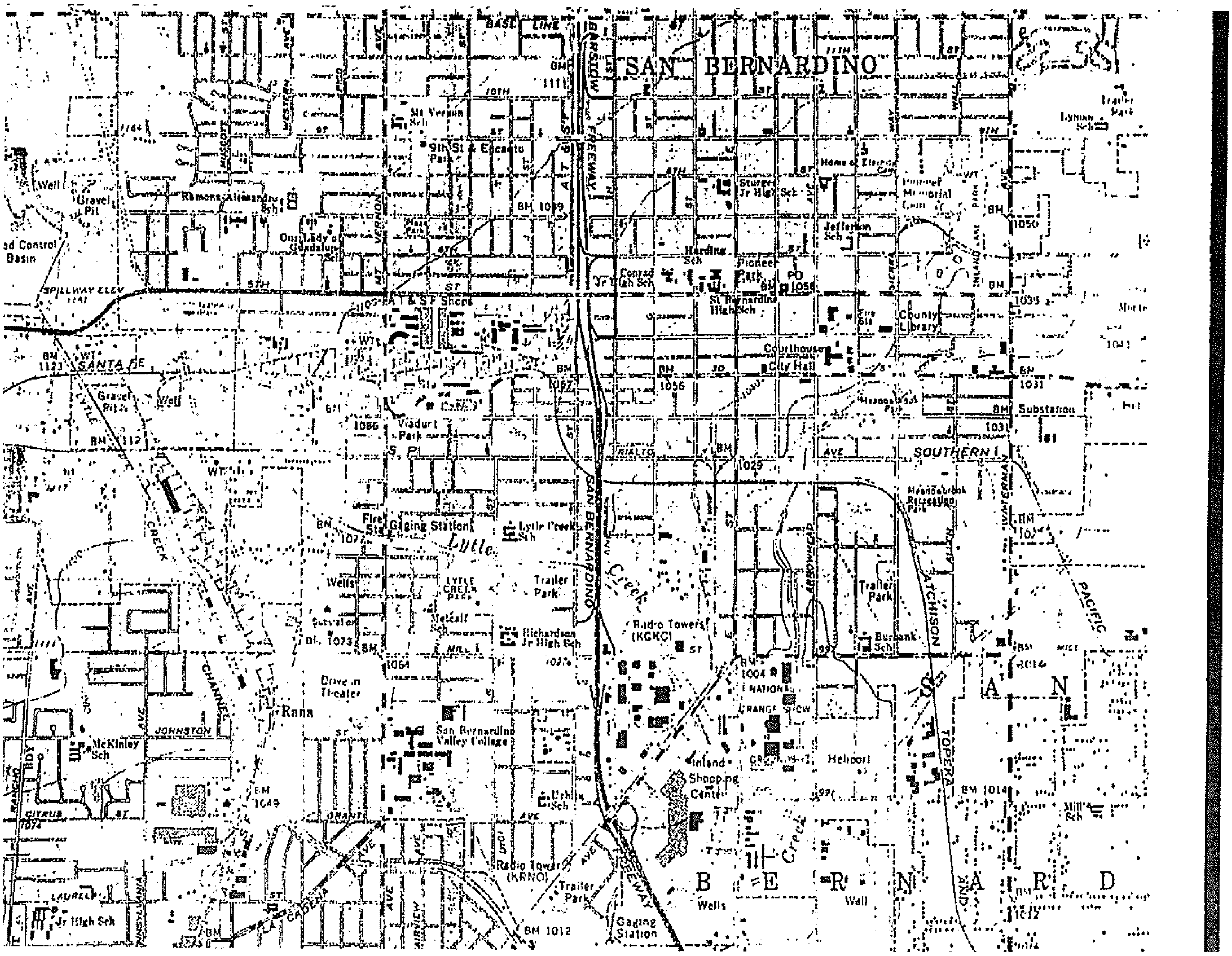

Hermosa Cemetery
Athletic Field
High Sch
West Colton
PACIFIC
Slover Mtn
San Salvador Sch
Well
Sewage Disposal
ROAD
BM 924
Trailer Park
805 Hunter Park Drive

SOUTHERN
PACIFIC
Golf Course
BLVD
Wash
Road

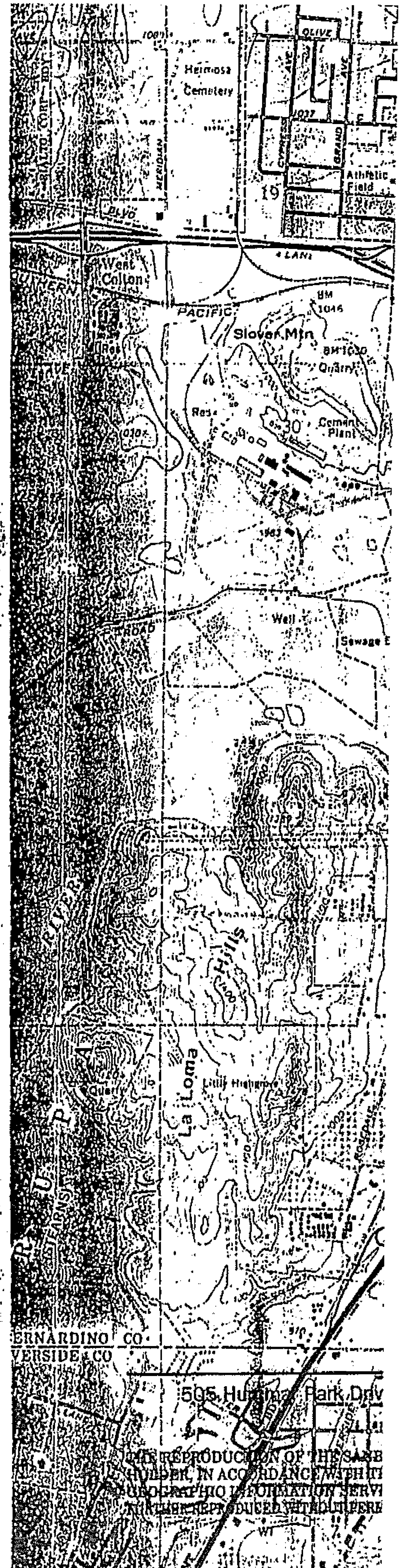


Historic Topo

1967



SAN BERNARDINO
BASE LINE
BARSTOW FREEWAY
SAN BERNARDINO FREEWAY
Mt Vernon Sch
9th St & Encanto Park
Ramona-Alexander Sch
Our Lady of Guadalupe Sch
Gravel Pit
Well
Flood Control Basin
SPILLWAY ELEV
SANTA FE
AT & SF Shops
Harding Sch
Conrad Jr High Sch
Pioneer Park
PO
St Bernardine High Sch
Sturges Jr High Sch
Jefferson Sch
Home of Eternity Cem
Pioneer Memorial Cem
County Library
Courthouse
City Hall
Meadowbrook Park
Substation
SOUTHERN
Viaduct Park
RIALTO
Meadowbrook Recreation Park
Fire Sta
Gaging Station
Lytle Creek Sch
Lytle Creek
Trailer Park
Wells
Metcalf Sch
Richardson Jr High Sch
Radio Towers (KCKC)
Burbank Sch
ATCHISON
TOPEKA AND
PACIFIC
Drive-in Theater
Rana
San Bernardino Valley College
McKinley Sch
JOHNSTON
CHANNEL
NATIONAL ORANGE SHOW
Heliport
Inland Shopping Center
Radio Towers (KRNO)
Trailer Park
Gaging Station
BM 1012
Jr High Sch
LAUREL
CITRUS
RANCHO
Mill Sch
Lyman Sch
Trailer Park
B E R N A R D
A N


Hermosa
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OLIVE
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West
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PACIFIC
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Slover Mtn
Quarry
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30
Cement
Plant
Well
Sewage
ROAD
Hills
La Loma
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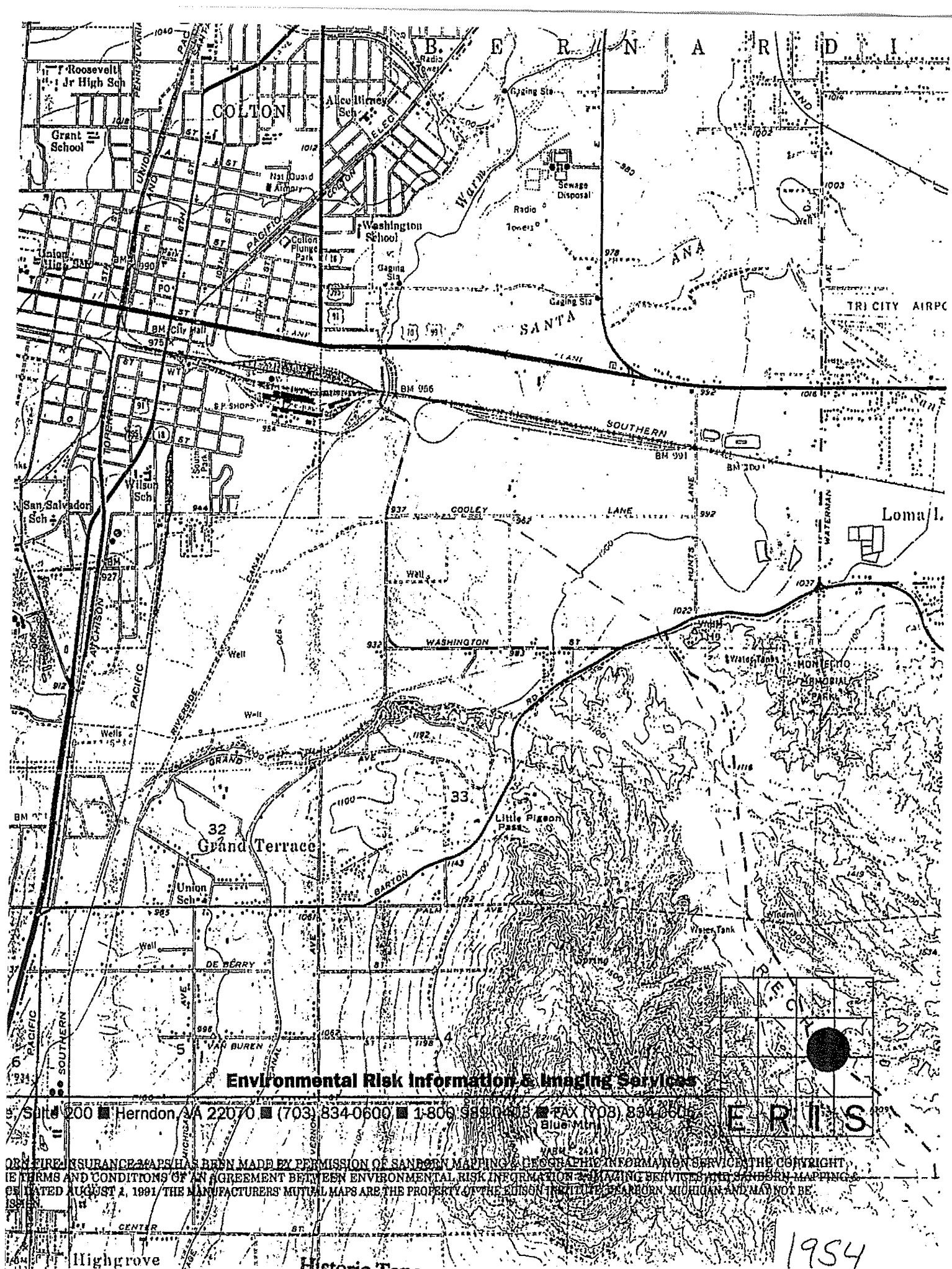
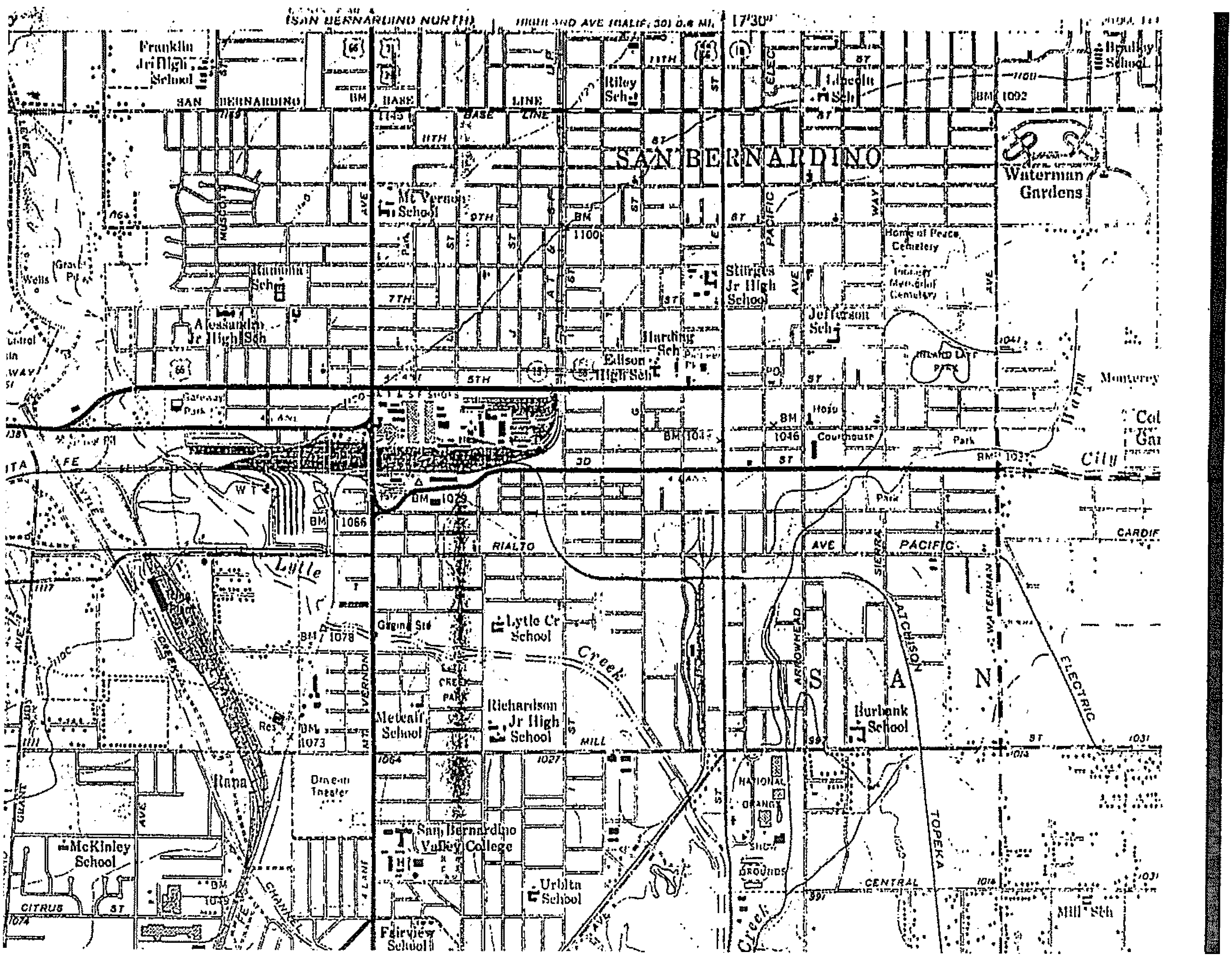
Quarry
ERNARDINO CO
VERSIDE CO
505 Hunt Park Driv

SOUTHERN
PACIFIC
TOPEKA
BLVD
ROAD



1954

Historic Topo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17'30"
SAN BERNARDINO
Franklin Jr High School
Riley Sch
Lincoln Sch
Bradley School
Waterman Gardens
Mt Vernon School
Home of Peace Cemetery
Pioneer Memorial Cemetery
Ramona Sch
Sturges Jr High School
Jefferson Sch
Alessandro Jr High Sch
Harding Sch
Edison High Sch
Gateway Park
Courthouse
Park
Monterey
City
Lytle
Creek
Lytle Cr School
Richardson Jr High School
Metcalf School
Burbank School
Drive-in Theater
San Bernardino Valley College
McKinley School
Urbita School
Fairview School
Mill Sch
NATIONAL ORANGE SHOW GROUNDS
BASE LINE
RIALTO
PACIFIC
SIERRA
WATERMAN
ARROWHEAD
ATCHISON
TOPEKA
ELECTRIC
CENTRAL
CITRUS
MILL
5TH
7TH
9TH
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BM 1092
BM 1100
BM 1046
BM 1066
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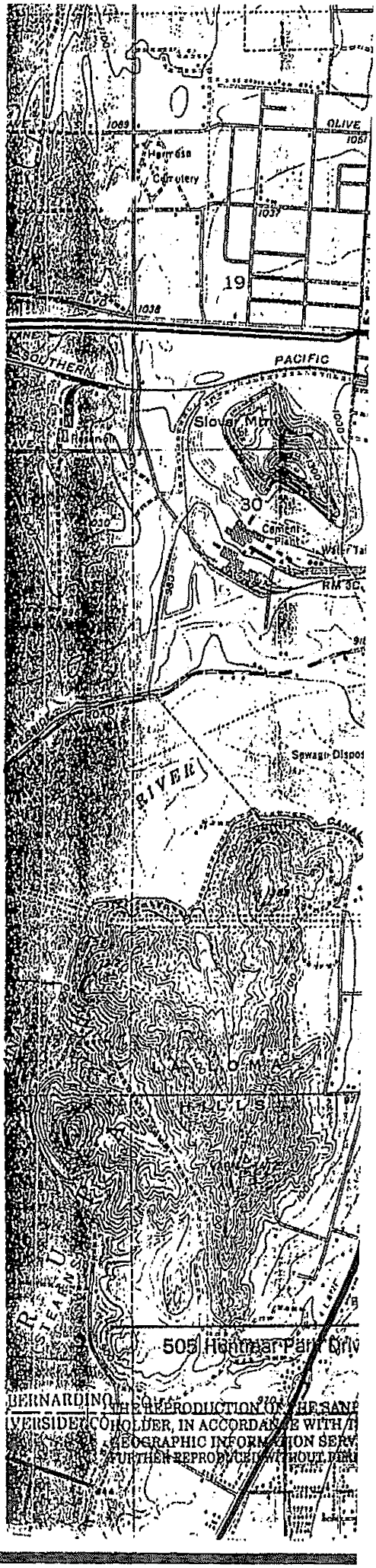
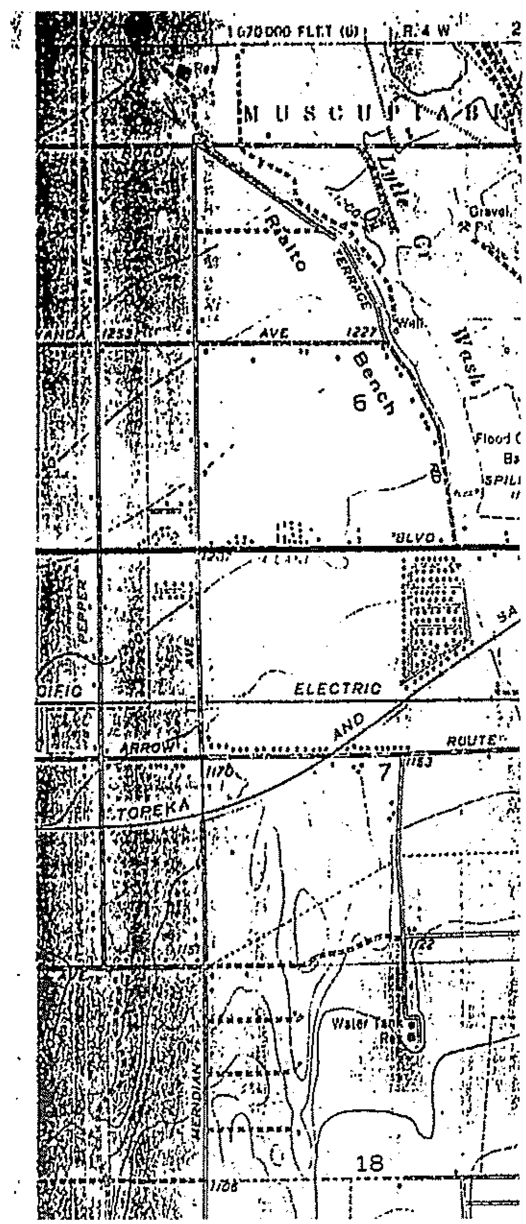
CARDIF
MUSCOTT
VERNON
Res
Rana





1 670 000 FEET (6)
R. 4 W
MUSCUPIABE
Little
Gravel Pit
Rialto
TERRACE
AVE
1227
Bench
6
Wash
Flood C
SPILL
BLVD
PEPPER
AVE
ELECTRIC
ARROW
AND
ROUTE
TOPEKA
7
Water Tank
18
MERIDIAN

APPENDIX 8.14A

Draft Construction Drainage, Erosion, and Sediment Control / Stormwater Pollution Prevention Plan

APPENDIX 8.14A

Draft Construction Drainage, Erosion, and Sediment Control / Stormwater Pollution Prevention Plan

Five hard copies of Appendix 8.14A, Draft Construction Drainage, Erosion, and Sediment Control/ Stormwater Pollution Prevention Plan were submitted to the California Energy Commission. Additional copies will be provided upon request.

Appendix 8.14A
Administrative Draft

AES Highgrove Project

Construction Drainage, Erosion, and Sediment Control/ Stormwater Pollution Prevention Plan

Prepared for

AES Highgrove, LLC

May 2006

CH2MHILL
2485 Natomas Park Drive
Sacramento, California 95833

Contents

Appendices

Tables

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SECTION 1

Introduction

1.1 Objectives

This Stormwater Pollution Prevention Plan[1] (SWPPP) was developed to address the new construction activity associated with the AES Highgrove Project. As required by the State Water Resources Control Board (SWRCB), this SWPPP was developed and will be amended or revised, when necessary, to meet the following objectives:

- Identify all pollutant sources, including sources of sediment, associated with construction activity that may affect the quality of stormwater discharges from the construction site;
- Identify non-stormwater discharges;
- Identify and provide the information necessary to install Best Management Practices (BMPs) to reduce or eliminate pollutants in stormwater discharges and authorized non-stormwater discharges from the construction site during construction; and
- Develop a maintenance schedule for BMPs installed during construction.

1.2 Project Overview

AES is proposing to construct and operate a nominal 300-megawatt (MW) simple-cycle facility consisting of three natural gas-fired turbines and associated equipment in the City of Grand Terrace, San Bernardino County (Figure 1-1, figures are provided at the end of each section). The 9.8-acre project site is located at 12700 Taylor Street, north of the intersection of Taylor and Main streets (Figure 1-2).

The generating facility will consist of three GE Energy LMS100 natural-gas fired combustion turbine generators (CTGs)—each equipped with water injection capability to reduce oxides of nitrogen (NO_x) emissions, a housing on the gas turbine exhaust containing catalysts to further reduce NOx and carbon monoxide (CO) emissions. Auxiliary equipment will include an inlet air filter house with an evaporative cooler, an intercooler and a 2-cell

[1] In 1972, the Federal Water Pollution Control Act (also referred to as the Clean Water Act [CWA]) was amended to provide that the discharge of pollutants to waters of the United States from any point source is unlawful unless the discharge is in compliance with a National Pollution Discharge Elimination System (NPDES) permit. The 1987 amendments to the CWA added Section 402(p), which established a framework for regulating municipal and industrial stormwater discharges under the NPDES Program. On November 16, 1990, the U.S. Environmental Protection Agency (USEPA) published final regulations that establish stormwater permit application requirements for specified categories of industries. The regulations provide that discharges of stormwater to waters of the United States from construction projects that encompass five (5) or more acres of soil disturbance are effectively prohibited unless the discharge is in compliance with an NPDES Permit. While federal regulations allow two permitting options for stormwater discharges (individual permits and General Permits), the California State Water Resources Control Board elected to adopt only one statewide General Permit that (with few exceptions) apply to all stormwater discharges associated with construction activity, upon submittal of a Notice of Intent to comply, certain fees and a Stormwater Pollution Prevention Plan. The SWPPP must be kept onsite during construction and made available upon request by a representative of the Regional Water Quality Control Board or local agency.

mechanical-draft cooling tower for each gas turbine, natural gas compressors, water storage tanks and associated support equipment.

Associated support equipment will include emission control systems necessary to meet the proposed emission limits at the stack exit. Air emissions from the combustion of natural gas in the CTGs will be controlled using state-of-the-art systems. Emissions that will be controlled include NO_x, reactive organic compounds (ROCs), CO, and particulate matter. To ensure that the systems perform correctly, continuous emissions monitoring systems will be used.

The bulk of the electric power produced by the facility will be transmitted to the power grid via the adjacent Southern California Edison (SCE)-owned 115 kV Highgrove Substation. Approximately 600 feet of new 115-kV overhead transmission line would be necessary for this connection. Natural gas for the facility will be delivered via approximately 7 miles of new, 12-inch-diameter pipeline that will connect to Southern California Gas' (SoCalGas) existing gas transmission line (Line 2001). The natural gas pipeline would extend from the west side of the plant south into Riverside County.

Approximately 737 acre-feet per year (afy) of water for gas turbine water injection, cooling, and other plant process needs will be supplied by an existing onsite well. Cooling water will be cycled in the cooling tower 6.5 times. Therefore, the blowdown will be concentrated before being discharged to the Santa Ana Regional Interceptor (SARI) brine line via truck transport.

Potable water for drinking and sanitary uses will be provided by Riverside Highland Water Company from an existing water main in Main Street that will be extended about 1,300 feet along Taylor Street. Sanitary wastewater disposal will be to the City of Grand Terrace's sanitary sewer. Figure 1-3 shows the site layout, including the location of the generating facility site and electric transmission line.

Primary access to the site will be provided via an existing entrance from Taylor Street, with vicinity access via Interstate 215 (I-215). A secondary entrance will be provided via Adventure Way on the north.

Post-construction treatment of stormwater will be accomplished by directing stormwater to a detention pond via sheet flow. Figure 1-4 shows the post-construction runoff and drainage patterns.

1.3 Implementation Schedule

Demolition of the existing power plant and construction of the new generating facility is expected to take approximately 14 months. Major milestones are listed in Table 1.3-1.

TABLE 1.3-1
Project Schedule Major Milestones

Activity	Date
Begin/Demolition	Second Quarter 2007
Startup and Test	Second Quarter 2008
Commercial Operation	Third Quarter 2008

There will be an average and peak workforce of approximately 77 and 147, respectively, of construction craft people, supervisory, support, and construction management personnel onsite during construction. The peak construction site workforce level is expected to occur in month ten of the construction period.

Construction will be scheduled to occur between 6:30 a.m. and 7 p.m., Monday through Saturday. Additional hours may be necessary to make up schedule deficiencies, or to complete critical construction activities. During some construction periods and during the startup phase of the project, some activities will continue 24 hours per day, 7 days per week.

The construction phases of the Highgrove Project as they pertain to stormwater management are expected to be as follows:

- **Demolition** – The overall project includes the demolition of the former Highgrove Generating Station; however, this SWPPP does not address this portion of the project. A separate SWPPP will be prepared by the demolition contractor before the demolition takes place. The demolition will occur in phases. As areas are demolished, they will be available for parking and construction laydown.

- **Preparation**—Parking areas for construction workers and laydown areas for construction materials will be prepared within the former Highgrove Generating Station Property, south of the Highgrove Project construction area. This area currently is completely developed with buildings, asphalt surfaces, and some landscape vegetation. This area will be demolished in phases as part of the project (see above). As the demolition occurs, the cleared areas will be available for use for parking and construction laydown.

  Detailed information regarding timing and sequencing of demolition and the location of the laydown and parking areas will be developed post contractor hiring and incorporated into the SWPPP as appropriate.

- **Access Road**— Site access for construction will be provided via existing access roads. Primary access to the site will be provided via an existing entrance from Taylor Street, with vicinity access via Interstate 215 (I-215). A secondary entrance will be provided via Adventure Way on the north. A stabilized entrance/exit will be provided to clean vehicle wheels at both the plant site and construction laydown areas.

- **Site Grading**—No site grading will be necessary for the parking and construction laydown areas. This area is currently developed and will be demolished in phases. After demolition, portions of the exposed site will be filled (as necessary) and graveled to provide all weather use and further minimize soil erosion potential. Heavy equipment

will be stored on dunnage to protect it from ground moisture. Once construction is complete, the gravel will be removed. No re-grading will be necessary.

The Highgrove Project will be located north of the former Generating Station Property in an area that was formerly occupied by large oil tanks (the "Tank Farm Property"). This area is below grade (approximately 4 to 7 feet). Grading will be necessary to allow transition between the lower portion of the bermed area and the ground surface. The overall site grading scheme for the site will be designed to route surface water around and away from all equipment and buildings to a detention pond on the south end of the site.

- **Foundation—** All underground piping and wiring will be installed, followed by installation of the foundation for the new generating facility and associated structures. Post-construction treatment of stormwater will be accomplished by directing stormwater to a detention pond via sheet flow.
- **Plant Construction—** After final site design and prior to construction, the Applicant will be required to finalize the Drainage, Erosion and Sediment Control Plan (DESCP)/Construction SWPPP (this document). During construction, the Applicant will be required to follow the DESCP/SWPPP to prevent the offsite migration of sediment and other pollutants and to reduce the effects of runoff from the construction site. BMPs to be used at the site will be fully addressed in the DESCP/SWPPP; the DESCP/SWPPP will include the location of BMPs to be used, installation instructions, and maintenance schedules for each BMP.
- **Site Stabilization—** Permanent stormwater management fixtures will replace any temporary items at the end of project construction.
- **Demobilization—** All temporary construction facilities will be removed. Permanent stormwater controls will then be in effect.

A Notice of Intent (NOI) to comply with the terms of the General Permit to Discharge Storm Water associated with Construction Activity will be prepared and submitted prior to the commencement of construction (Appendix A). Any necessary revisions to the SWPPP will be prepared in a timely manner. The SWPPP will be amended whenever there is a change in construction or operations that may affect the discharge status of pollutants. Once construction activities have been concluded, a Notice of Termination will be submitted to the Regional Board and this Construction SWPPP will no longer be in effect.

1.4 Plan Availability

The SWPPP will remain on the construction site while the project is under construction during working hours, commencing with the initial construction activity and ending with termination of coverage under the General Permit (Appendix I). A copy of the California General Permit also will be maintained on the construction site. The SWPPP will be provided to the Regional Board upon request, and be made available to the public only through the Regional Board.

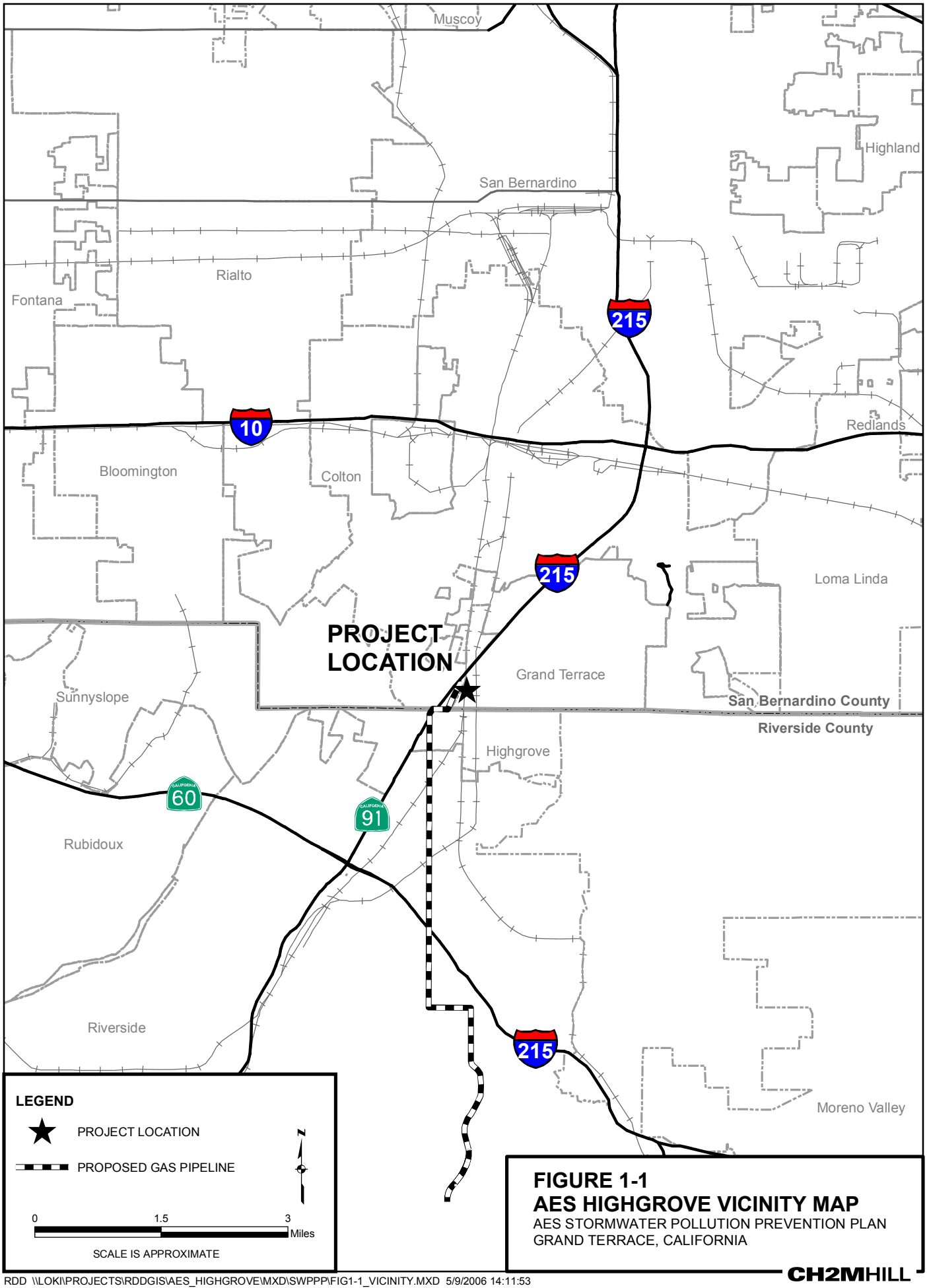

FIGURE 1-1
AES HIGHGROVE VICINITY MAP
AES STORMWATER POLLUTION PREVENTION PLAN
GRAND TERRACE, CALIFORNIA

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RDD \\LOKI\PROJECTS\RDDGIS\AES_HIGHGROVE\MXD\SWPPP\FIG1-1_VICINITY.MXD 5/9/2006 14:11:53

City of Grand Terrace

San Bernardino County

MAIN STREET

Riverside County

Highgrove

IOWA STREET

City of Riverside

MARTIN LUTHER KING JR. BLVD.

CANYON CREST DRIVE

LEGEND

SITE

PROPOSED GAS PIPELINE

0 2,100 4,200 FEET

1 INCH EQUALS 2,100 FEET

N

FIGURE 1-2
AES HIGHGROVE SITE AND LINEAR FACILITIES LOCATION MAP
AES STORMWATER POLLUTION PREVENTION PLAN
GRAND TERRACE, CALIFORNIA

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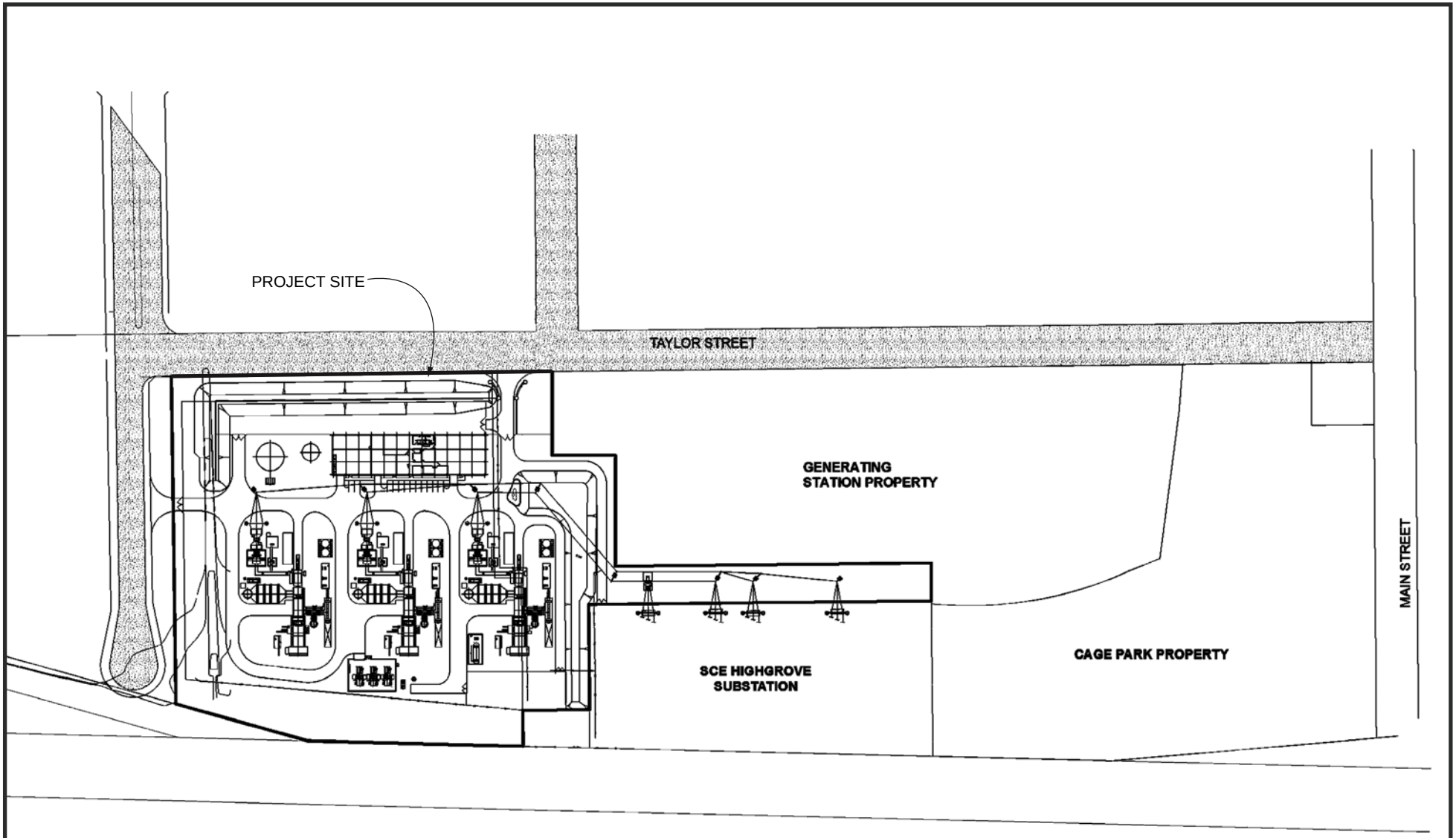

FIGURE 1-3
AES HIGHGROVE SITE LAYOUT
AES STORMWATER POLLUTION PREVENTION PLAN
GRAND TERRACE, CALIFORNIA

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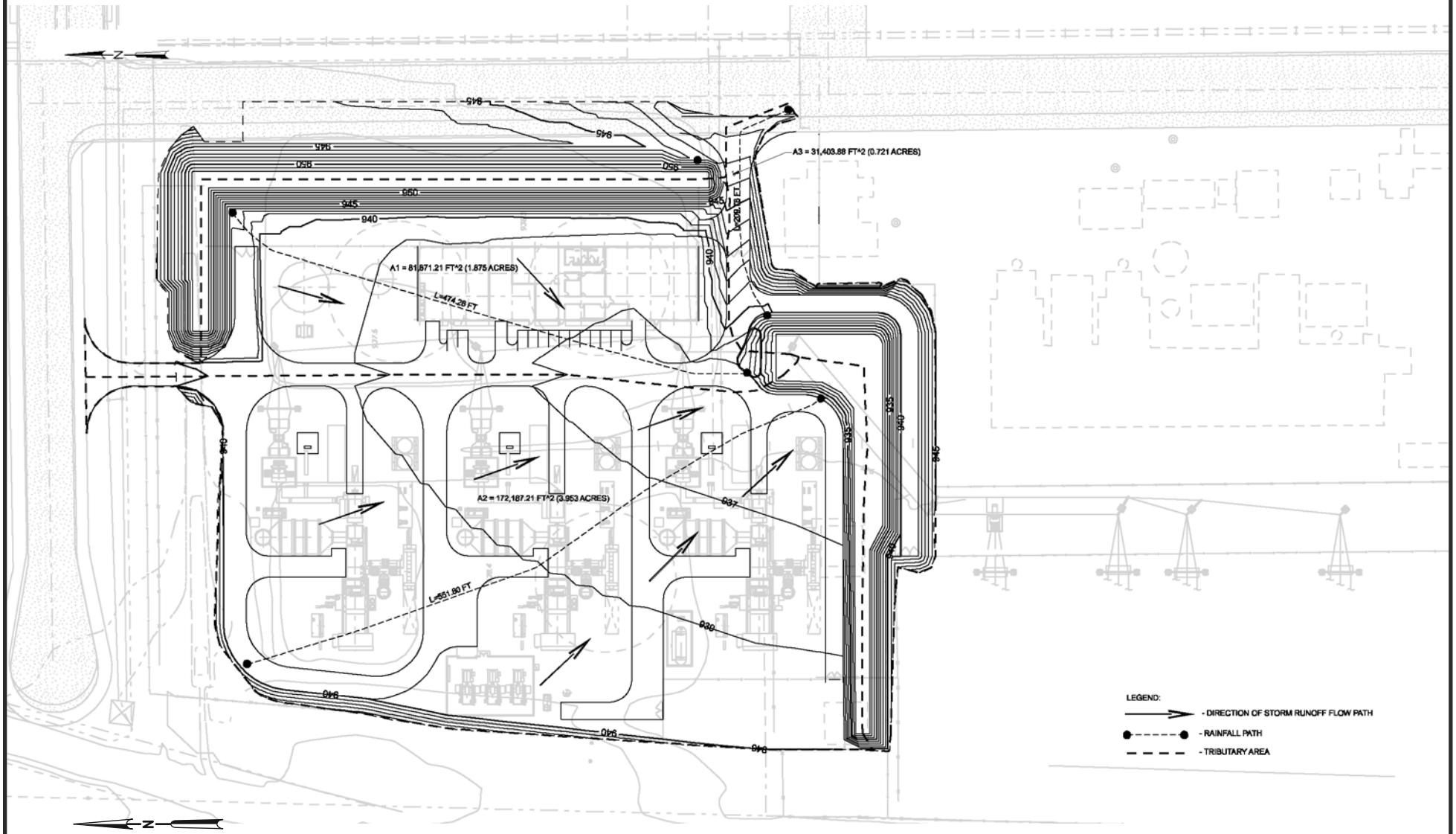

FIGURE 1-4
PROPOSED DRAINAGE FACILITIES
AES STORMWATER POLLUTION PREVENTION PLAN
GRAND TERRACE, CALIFORNIA

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SECTION 2

Site Description

2.1 Site Description and Project Activity

The site and linear facilities locations shown in Figure 1-2, a typical elevation view is shown in Figure 2-1, and conceptual image shown in Figure 2-2 illustrate the location and size of the proposed generating facility. The new generation facilities will occupy approximately 9.8 acres. The new facility will be located on property which was once part of SCE's former Highgrove Generating Station. The Highgrove Generating Station was constructed in the 1950s and consisted of four small generating units with a combined nominal capacity of 154 MW, cooling towers, boilers, tanks, and associated equipment, and several large oil storage tanks, which served the facility when the unit used oil as a primary fuel. The generating station was purchased from SCE in late 1998 by Thermo Ecotek, who operated the facility as Riverside Canal Power Company. Both the tank farm area, north of the generating equipment, and SCE's onsite Highgrove 115 kV Substation were excluded from this sale. The fuel oil tanks were later removed by SCE, which sold the property to its current owner. AES Corporation acquired Thermo Ecotek in 2001 and later decommissioned Riverside Canal Power Plant based on age and environmental considerations. The project includes the phased demolition of the former Highgrove Generating Station.

The new Highgrove Project facility will be located on the former tank farm site, which is under the Applicant's control (through an agreement with the current owner), and located north of the old generating equipment and along the SCE substation. The Tank Farm Property included berms that were used to contain any oil resulting from a potential tank rupture. These berms still exist and the plant will be built below grade inside the bermed area to reduce noise and visual impacts in the Taylor Street area.

Parking areas for construction workers and laydown areas for construction materials will be prepared within the Generating Station Property, south of the construction area. This area currently is completely developed with buildings, asphalt surfaces, and some landscape vegetation. The total available area for construction laydown (after the demolition of the former Highgrove Generating Station) will be approximately 7.5 acres. If more than 7.5 acres is required for construction laydown purposes, an amendment to the SWPPP will be completed for all additional areas.

2.1.1 Offsite Linear Descriptions and Project Activity

The proposed Highgrove Project will have utility connections for the electric transmission line, natural gas supply line, water supply line and sanitary wastewater discharge line. SCE owns an electrical switchyard adjacent to the project site to which the plant would connect through approximately 600 feet of new 115-kV overhead transmission line. Natural gas will be supplied by a proposed approximately 7-mile long, 12-inch diameter natural gas pipeline that would extend from the west side of the plant south into Riverside County. Because the gas line route will primarily follow existing roadways or other developed rights-of-way, it will not affect agricultural lands in the project area. Potable water supplies are located south

of the site. Potable water will be supplied to the project site from an existing water main that will be extended from Main Street along Taylor Street. This water line would not affect agricultural lands in the project area.

Once a final design has been established, the selected contractor will prepare site maps showing the construction project in detail. Site conditions, including paved areas, buildings, lots and roadways, general topography and drainage patterns for stormwater collection will be shown for the following phases of construction:

- **Existing Site Topography**—A plan showing existing site topography and drainage will be prepared.
- **Conceptual Rough Grading**—A plan with figures for interim grading and erosion control will be prepared. It will show the temporary onsite drainage patterns to be established by the grading of the project site, as well as any necessary erosion control features.
- **Stabilized Site**—A detailed finish grading and drainage plan with figures will be prepared showing the final conditions of the site as constructed.
- **Finished Project**—A conceptual image of the Highgrove Project facility (Figure 2-2), shows the completed generating facility.

2.2 Vegetation and Soils

The proposed 9.8-acre Highgrove Project site is bordered on the north by a ruderal area used for construction material storage, on the west by railroad tracks, Riverside Canal and Interstate-215, on the south by Cage Park Property (a private park previously owned by SCE), and on the east and northeast by agricultural fields and southeast by lumber companies (Figure 2-3). The agricultural land extends approximately 800 feet north of the site to Van Buren Street and approximately 1,500 feet eastward to developed urban areas of the City of Grand Terrace.

The portion of the Project site located on the Tank Farm Property is currently undeveloped with approximately 50 to 75 percent grass cover. The parking and construction laydown areas are located directly south of the plant construction area within the former Highgrove Generating Station Property. This area is completely developed with buildings, asphalt surfaces, and some landscape vegetation; however, this area will be demolished as part of the project.

Soil survey mapping units characterizing the types and distribution of soils within the project area, as shown on Figure 2-4, are taken from the *Soil Survey of San Bernardino County, Southwestern Part, California* (NRCS 1980) and *Soil Survey of Western Riverside Area, California* (NRCS 1971). The electronic shape files for these mapping units were downloaded from the NRCS web site. Detailed soil descriptions were developed from the soil survey publications (NRCS 1980, 1971) and from the Official Soil Descriptions (OSD) web page (NRCS 2005). Important farmland designations for the soil mapping units were taken from the Soil Candidate Listings for San Bernardino and Riverside Counties from the Farmland Mapping and Monitoring Program (CDC 2005, 2005a, 1995).

Soil types within one mile of the site boundaries are identified in Figure 2-4. Soil types along the proposed natural gas supply pipeline are identified in Figure 2-5. Table 2.2-1 summarizes the characteristics of each of the individual soil mapping units identified on Figures 2-4 and 2-5. The table summarizes depth, texture, drainage, permeability, erosion hazard rating, land capability classification, and fertility as an indicator of its revegetation potential.

Figure 2-6 shows "Important Farmlands" as defined by the California Department of Conservation (CDC) (CDC 2002) within one mile of the site boundaries. The farmland mapping designated specific areas as follows: Prime Farmland; Farmland of Statewide Importance; Unique Farmland, Farmlands of Local Importance, Grazing Land, Urban and Built-Up Land, and Other Land. Soil series designated as "Prime Farmland" (or Farmland of Statewide Importance) are also listed in Table 2.2-1.

2.2.1 Agricultural Use on and around the Proposed Highgrove Project Site

As previously mentioned, agricultural fields are located on the east side of Taylor Street, across from the Highgrove Project, and are currently farmed for row crops. These fields extend eastward toward the proposed alignment for Commerce Way beyond which are dense urban (industrial and residential) developments. The fields extend northward from existing industrial properties on the north side of Main Street and are bounded by Van Buren Street. These agricultural fields are not mapped within the San Bernardino County Agricultural Overlay District (City of Grand Terrace 2001, 1988). They are planned for conversion to a sports complex/playing fields associated with a proposed high school development for the properties along the east side of Taylor Street and the proposed Outdoor Adventure Center.

2.2.2 Agricultural Use along the Highgrove Project Features

Along the proposed natural gas supply pipeline route, the majority of land (74 percent) is classified as [D] Urban and Built-up Land. Orchards associated with the University of California at Riverside (UCR) campus are classified as [P] Prime Farmland and constitute approximately 13 percent of the total pipeline length. The remaining 13 percent of the pipeline length is comprised of [X] Other Land and is found to the south of the UCR orchards, near the southern end of the proposed pipeline route.

One orchard property is found in Riverside on the east side of Iowa Avenue between Columbia Avenue and Marlborough Avenue. The orchard runs along the proposed pipeline route for approximately 600 feet. Other orchards, associated with UCR, are found along both sides of Iowa Street (extending south about 0.38 mile from Everton Place to Martin Luther King Boulevard), then west about 0.5 mile along MLK Boulevard, then south about 0.22 mile along Canyon Crest Drive.

The 7-mile long natural gas supply pipeline will follow existing roadways or other rights-of-way. For these reasons, there will be no direct impacts to agricultural lands resulting from the proposed Highgrove Project.

2.2.3 Soil Types within the Study Area and Prime Farmlands

The designations of Important Farmlands in the project vicinity and along the proposed 7-mile natural gas supply pipeline are shown on Figures 2-4 and 2-5 and are also summarized in Table 2.2-1. Figure 2-4 shows that the project site and most of the area within the 1-mile buffer is mapped as [D] Urban and Built Up Land. The next largest area is the Loma Hills to the west, which are mapped as [G] Grazing Land. An area mapped as [X] Other Land is located north and northeast of the Highgrove Project site along the southeast side of Interstate 395.

There are three types of Important Farmlands mapped within the 1-mile buffer that represent a relatively small proportion of the total area. The largest part of these Important Farmlands occurs to the south in Riverside County and include (in decreasing order): Prime Farmlands, Farmland of Local Importance, and Farmland of Statewide Importance. The agricultural fields just east of the project site are mapped as Prime Farmlands and Farmland of Statewide Importance. The other Important Farmlands are located away from the project site west of Interstate 395 in San Bernardino County or along the southern boundary of the City of Highgrove in Riverside County.

As previously noted, the proposed project will not result in the conversion of any agricultural land because the pipeline will follow existing roadways and rights-of-way.

TABLE 2.2-1
Soil Mapping Unit Descriptions and Characteristics

Map Unit	Description
San Bernardino County Soil Mapping Units (NRCS 1980)	
GtC	**Greenfield sandy loam – slope class (2 to 9%)** – Prime Farmland – Well drained – Deep soils, gently sloping to moderately sloping – Formed on alluvial fans in moderately coarse textured granitic alluvium – Sandy loam surface, subsoil, and substratum – Permeability is moderately rapid (2.0 to 6.0 inches/hour) – Runoff is medium – Water erosion hazard is moderate if soil is unprotected – Soils are slightly acidic in surface and subsoil and neutral in substratum – Low shrink-swell potential – Capability Class IIe-1 irrigated – Taxonomic class: Coarse-loamy, mixed, thermic Typic Haploxeralfs – Elevation range from 1,200 to 3,400 feet

TABLE 2.2-1
Soil Mapping Unit Descriptions and Characteristics

Map Unit	Description
HaC	**Hanford coarse sandy loam – slope class (2 to 9%)** – Prime Farmland – Well drained – Deep soils, gently sloping to moderately sloping – Formed on alluvial fans in recent granitic alluvium – Sandy loam surface, subsurface, and substratum – Permeability is moderately rapid (2.0 to 6.0 inches/hour) – Runoff is slow – Water erosion hazard is slight if soil is unprotected – Soils are slightly acidic to neutral throughout – Low shrink-swell potential – Capability Class IIe-1 irrigated – Taxonomic class: Coarse-loamy, mixed, non-acid, thermic Typic Xerorthents – Elevation range from 1,000 to 1,800 feet
HaD	**Hanford coarse sandy loam – slope class (9 to 15%)** Similar characteristics as noted above with the following differences: – Farmland of Statewide Importance – Strongly sloping soils on fans and terraces with short side slopes – Runoff is medium – Water erosion hazard is medium to high if soil is unprotected – Capability Class IIIe-1 irrigated
MoC	**Monserate sandy loam – slope class (2 to 9%)** The Highgrove Project site is located entirely within this soil mapping unit. – Farmland of Statewide Importance – Moderately well drained – Deep soils, gently sloping to moderately sloping – Formed in granitic alluvium on alluvial fans and terraces – Sandy loam surface and clay subsoil over indurated hardpan underlain by a coarse sandy loam substratum – Permeability is moderately slow in surface and substratum (2.0 to 6.0 inches/hour), slow in subsoil (0.2 to 0.6 inches/hour); very slow in hardpan (<0.06 inches/hour) – Runoff is medium – Water erosion hazard is slight to moderate if soil is unprotected – Soils are slightly acidic in surface, neutral in subsoil, and slightly alkaline below – Low shrink-swell potential in surface and substratum; moderate in subsoil – Capability Class IIIe-8 irrigated – Taxonomic class: Fine loamy, mixed, thermic Typic Durixeralfs – Elevation range from 800 to 1,200 feet

TABLE 2.2-1
Soil Mapping Unit Descriptions and Characteristics

Map Unit	Description
RmC	**Ramona sandy loam - slope class (2 to 9%)** – Prime Farmland – Well drained – Deep soils, gently sloping to moderately sloping – Formed in granitic alluvium on alluvial fans and terraces – Sandy loam surface over loam/clay loam subsoil and sandy loam substratum – Permeability is moderately slow (2.0 to 6.0 inches/hour in surface and substratum and 0.2 to 0.6 inches/hour in subsoil) – Runoff is medium – Water erosion hazard is moderate if soil is unprotected – Soils are slightly acidic in surface and neutral below – Low shrink-swell potential in surface and substratum; moderate in subsoil – Capability Class IIe-1 irrigated – Taxonomic class: Fine loamy, mixed, thermic Typic Haploxeralfs – Elevation range from 1,000 to 3,000 feet
ShF	**Saugus sandy loam – slope class (30 to 50%)** The gas supply pipeline within Grand Terrace passes through this soil mapping unit. – Not listed as an Important Farmland soil – Well drained – Deep soils, steeply sloped – Formed on uplands in weakly consolidated sediment – Sandy loam surface and loam subsurface over weakly consolidated sediment in substratum – Permeability is moderate in surface (2.0 to 6.0 inches/hour) and slow in subsoil (0.6 to 2.0 inches/hour) – Runoff is rapid – Water erosion hazard is moderate to high if soil is unprotected – Soils are neutral in surface and slightly acidic below – Low shrink-swell potential in surface and moderate in subsoil – Capability Class VIIe-1 dryland – Taxonomic class: Coarse-loamy, mixed, non-acid, thermic Typic Xerorthents – Elevation range from 1,200 to 2,500 feet
Vr	**Vista-Rock outcrop complex – slope class (30 to 50%)** Soil properties given below pertain to the Vista series – Not listed as an Important Farmland soil – Well drained – Shallow to moderately deep soils over granitic rock, steeply sloped – Formed on upland foothills in material weathered from granitic rock – Sandy loam surface and subsoil over decomposed granitic subsurface – Permeability is moderately rapid (2.0 to 6.0 inches/hours) – Runoff is medium to rapid – Water erosion hazard is moderate – Slightly acidic surface soils becoming neutral with increasing depth – Low shrink-swell potential – Capability class VIIe-1 dryland – Taxonomic class: Coarse-loamy, mixed, superactive, thermic, Typic Haploxerepts – Elevation range from 1,200 to 3,500 feet

Riverside County Soil Mapping Units (NRCS 1971)

Note: All the following soil mapping units are along the proposed natural gas supply pipeline route.

TABLE 2.2-1
Soil Mapping Unit Descriptions and Characteristics

Map Unit	Description
AoA	**Arlington fine sandy loam, deep – slope class (0 to 2%)** – Prime Farmland – Well drained – Deep soils over a weakly cemented layer – Formed on alluvial fans and terraces in alluvium dominantly from granitic rocks – Fine sandy loam surface and subsurface over weakly cemented alluvium substratum – Permeability is slow – Runoff is slow – Water erosion hazard is slight – Natural fertility is moderate – Slightly acidic to mildly alkaline surface; neutral to mildly alkaline subsoil and substratum – Capability Class IIs-8 irrigated – Taxonomic class: Coarse-loamy, mixed, thermic Haplic Durixeralfs – Elevation range from 500 to 2,000 feet
AoC	**Arlington fine sandy loam, deep – slope class (2 to 8%)** Similar characteristics as noted above with the following differences: – Also a Prime Farmland soil – Runoff is medium – Water erosion hazard is moderate – Capability Class IIIe-1 irrigated
ApB	**Arlington loam, deep, slope class (0 to 5%)** Similar characteristics as noted above with the following differences: – Farmland of Statewide Importance – Loamy surface texture – Runoff is slow to medium – Water erosion hazard is slight to moderate – Capability Class IIIe-8 irrigated
ArB	**Arlington loam, deep, slope class (5 to 15%)** Similar characteristics as noted above with the following differences: – Prime Farmland – Capability Class IIe-1 irrigated – Water erosion hazard is slight to moderate
ArD	**Arlington loam, deep, slope class (5 to 15%)** Similar characteristics as noted above with the following differences: – Not listed as an Important Farmland soil – Runoff is medium – Water erosion hazard is moderate

TABLE 2.2-1
Soil Mapping Unit Descriptions and Characteristics

Map Unit	Description
BuC2	**Buren fine sandy loam, eroded – slope class (2 to 8%)** – Farmland of Statewide Importance – Moderately well drained – Moderately deep soils over a weakly cemented pan layer – Formed on alluvial fans and terraces in alluvium from mixed sources – Sandy loam surface and loam subsurface over weakly cemented loam substratum – Permeability is moderately slow – Runoff is medium – Water erosion hazard is moderate – Natural fertility is moderately high – Slightly acidic to moderately alkaline surface; neutral to moderately alkaline subsoil; moderately alkaline substratum – Capability Class IIIe-8 irrigated – Taxonomic class: Fine-loamy, mixed, thermic Haplic Durixeralfs – Elevation range from 700 to 3,000 feet
BuD2	**Buren fine sandy loam, eroded, slope class (8 to 15%)** Similar characteristics as noted above with the following differences: – Not listed as an Important Farmland soil – Loamy surface texture – Runoff is medium – Water erosion hazard is high – Capability Class IIIe-1 irrigated
FaD2	**Fallbrook sandy loam, eroded, slope class (8 to 15%)** – Farmland of Statewide Importance – Well drained – Shallow soils (approximately 2 feet) over a weathered bedrock – Formed in uplands on soils developed from granodiorite and tonalite – Sandy loam surface and loam to clay loam or sandy clay loam subsurface over weathered granodiorite or tonalite – Permeability is moderate – Runoff is medium – Water erosion hazard is moderate – Natural fertility is moderate – Slightly acidic to neutral surface; neutral subsoil; slightly acidic to neutral substratum – Capability Class IVe-1 irrigated – Taxonomic class: Fine-loamy, mixed, thermic Typic Haploxeralfs – Elevation range from 700 to 3,500 feet
FaE2	**Fallbrook sandy loam, eroded, slope class (15 to 25%)** Similar characteristics as noted above with the following differences: – Not listed as an Important Farmland soil – Runoff is rapid – Water erosion hazard is high

TABLE 2.2-1
Soil Mapping Unit Descriptions and Characteristics

Map Unit	Description
GyC2	**Greenfield sandy loam, eroded – slope class (2 to 8%)** – Prime Farmland – Well drained – Deep soils – Formed on alluvial fans and terraces in alluvium dominantly from granitic materials – Sandy loam surface and subsurface over loam substratum – Permeability is moderate – Runoff is slow to medium – Water erosion hazard is slight to moderate – Natural fertility is high – Neutral surface, slightly acidic to mildly alkaline subsoil – Capability Class IIe-1 irrigated – Taxonomic class: Coarse-loamy, mixed, thermic Typic Haploxeralfs – Elevation range from 600 to 3,500 feet
HcA	**Hanford coarse sandy loam, slope class (0 to 2%)** – Prime Farmland – Well drained and somewhat excessively drained – Deep soils – Formed on alluvial fans in alluvium dominantly from granitic materials – Coarse or fine sandy loam surface over loamy sand subsurface – Permeability is moderately rapid – Runoff is slow – Water erosion hazard is slight – Natural fertility is moderate – Slightly acidic surface and slightly acidic to neutral substratum – Capability Class IIs-4 irrigated – Taxonomic class: Coarse-loamy, mixed, nonacid, thermic Typic Xerorthents – Elevation range from 700 to 2,500 feet
HcC	**Hanford coarse sandy loam – slope class (2 to 8%)** Similar characteristics as noted above with the following differences: – Also a Prime Farmland soil – Runoff is slow to medium – Water erosion hazard is slight to moderate – Capability Class IIe-1 irrigated
HgA	**Hanford fine sandy loam, slope class (0 to 2%)** Similar characteristics as noted above with the following differences: – Also a Prime Farmland soil – Fine sandy loam surface texture – Runoff is slow – Capability Class I-1 irrigated

TABLE 2.2-1
Soil Mapping Unit Descriptions and Characteristics

Map Unit	Description
MaB2	**Madera fine sandy loam, eroded, slope class (2 to 5%)** – Farmland of Statewide Importance – Well drained – Shallow soil over a cemented hardpan layer with cementation decreasing with depth – Formed on dissected terraces and old alluvial fans in alluvium dominantly from granitic materials – Sandy loam surface and clay subsoil over indurated hardpan – Permeability is very slow – Runoff is slow to medium – Water erosion hazard is slight to moderate – Natural fertility is moderate – Slightly acidic to neutral surface over strongly alkaline subsurface – Capability Class IIIe-3 irrigated – Taxonomic class: Fine, montmorillonitic, thermic Typic Durixeralfs – Elevation range from 600 to 1,600 feet
MmB	**Monserate sandy loam – slope class (0 to 5%)** – Farmland of Statewide Importance – Well drained – Shallow soil over a cemented hardpan layer with cementation decreasing with depth – Formed on terraces and old alluvial fans in alluvium dominantly from granitic materials – Sandy loam surface and sandy clay loam subsoil over hardpan underlain by loamy sand substratum – Permeability is moderately slow above the nearly impervious pan layer – Runoff is slow – Water erosion hazard is slight – Natural fertility is moderate – Slightly acidic to neutral surface and subsurface over a mildly alkaline subsoil – Capability Class IIIe-8 irrigated – Taxonomic class: Fine loamy, mixed, thermic Typic Durixeralfs – Elevation range from 700 to 2,500 feet
MoC	**Mottsville loamy sand – slope class (0 to 5%)** – Prime Farmland – Excessively drained – Shallow soil over a cemented hardpan layer with cementation decreasing with depth – Formed on alluvial fans and valley fills in alluvium dominantly from igneous materials – Loamy sand surface and subsoil over loamy coarse sand substratum – Permeability is rapid – Runoff is medium – Water erosion hazard is moderate – Natural fertility is moderate – Slightly acidic to neutral throughout profile – Capability Class IIIs-4 irrigated – Taxonomic class: Sandy, mixed, mesic Torriorthentic Haploxeralfs – Elevation range from 3,500 to 6,000 feet

TABLE 2.2-1
Soil Mapping Unit Descriptions and Characteristics

Map Unit	Description
RsC	**Riverwash** – Not listed as an Important Farmland soil – Slopes of 0 to 8 percent in valley fills and on alluvial fans – Variable drainage – Depth is variable but generally 20 to 60 inches or more – Formed in the beds of the major streams or larger creeks – Sandy, gravelly, or cobbly textures – Slightly acidic to neutral throughout profile – Capability Class VIIIw-4 dryland
TeG	**Terrace escarpments** – Not listed as an Important Farmland soil – Slopes of 30 to 75 percent – Formed in variable alluvium on terraces or barrancas – Unaltered alluvial outwash from granite, gabbro, metamorphosed sandstone, sandstone, or mica-schists – Variable drainage with soil profiles that are commonly truncated – May have exposed 'rim-pan', gravel, cobblestones, stones, or large boulders in variable quantities – Slightly acidic to neutral throughout profile – Capability Class VIIe-1 dryland
VsF2	**Vista coarse sandy loam, eroded, slope class (15 to 35%)** – Not listed as an Important Farmland soil – Well drained – Shallow soil over a cemented hardpan layer with cementation decreasing with depth – Formed on uplands from weathered granite and granodiorite – Coarse sandy loam surface and gravelly coarse sandy loam subsurface over weathered granite or granodiorite – Permeability is moderately rapid – Runoff is medium – Water erosion hazard is moderate – Natural fertility is moderate – Medium to slightly acidic surface and slightly acidic to neutral subsurface over weathered bedrock subsoil – Capability Class VIe-1 dryland – Taxonomic class: Coarse loamy, mixed, thermic Typic Xerochrepts – Elevation range from 1,000 to 3,500 feet

Notes:
Soil characteristics are based on soil mapping provided in the published soil surveys (NRCS 1971, 1980) and a review of corresponding Official Series Descriptions (OSDs).

Soil map units described above are limited to those mapped by the NRCS in the vicinity (i.e., within one mile) of the project property boundaries or directly on the proposed natural gas supply pipeline route.

Important Farmland soils taken from the Farmland Mapping and Monitoring Program (FMMP) Soil Candidate Listing for Prime Farmland and Farmland of Statewide Importance for San Bernardino County and for Riverside County (both updated August 23, 2005).

2.3 Hydrology

Most of the precipitation in the project area falls between November and April. Monthly average rainfall at the Riverside Municipal Airport, which is similar to that at the project site, is presented in Table 2.3-1. The total annual average rainfall at the Riverside Municipal Airport is 9.95 inches.

TABLE 2.3-1
Average Monthly Rainfall Near the Proposed Project Site (2001 to 2005)

Precipitation	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	9.95	1.81	3.72	1.10	0.62	0.09	0.01	0.03	0.00	0.01	0.78	0.70	1.09
Maximum		6.04	6.48	2.95	1.43	0.24	0.03	0.14	0.00	0.06	2.55	1.20	2.13
Minimum		0.01	0.04	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.32

Average Monthly Rainfall at Riverside Municipal Airport approximately 6 miles from project site.

2.4 Estimated Total Disturbed Area

The estimated area disturbed during project construction is:

Tank Farm Property	7.6 acres
Highgrove Generating Station Property	10.1 acres
Total Disturbed Area	17.7 acres
Linear Construction	7.0 miles

2.5 Existing Drainage

2.5.1 Highgrove Project Site Area

The Highgrove Project will be located mostly on the former oil tank area associated with the Highgrove Generating Station ("Tank Farm Property"). The Tank Farm Property included berms to contain any oil resulting from a potential tank rupture. These berms still exist and the plant will be built below grade inside the bermed area. The current runoff rate from that portion of the project area within the berms (approximately 6.55 acres) is approximately 10.1 cubic feet per second (cfs) based on an undeveloped site with prior industrial use and a 100-year rainfall intensity. However, since this site is a bermed area, the stormwater does not actually run off the site but stays within the berms until it evaporates. Additional runoff from the Tank Farm Property (outside of the bermed area) flows either into the bermed area or to existing storm drains on the west side of the property.

The project also includes demolition of the existing Highgrove Generating Station and use of that property for construction laydown. Runoff from the Generating Station Property generally flows to the west toward the Cage Park Property pond or to the sumps on the western part of the Generation Station Property. The Cage Park Property pond was used as a detention basin during operation of the Highgrove Generating Station, and received water from various plant and non-plant sources. Ultimately, all stormwater runoff from the site

(outside of the bermed area on the Tank Farm Property) flows to the Santa Ana River. The Generating Station Property (approximately 10.1 acres) has a runoff rate of approximately 36.5 cfs, for the developed site and a 100-year rainfall intensity.

The plant site is not located within a flood hazard zone as defined by the Federal Emergency Management Agency (FEMA 1997).

2.5.2 Linear Construction Areas

The project includes a 7-mile natural gas supply line and approximately 1,300 feet of potable water supply line. The proposed approximately 7-mile, 12-inch diameter natural gas line from the Highgrove Project to SoCalGas' Line 2001 would exit the west side of the power plant and follow the Riverside Canal southwest to Main Street. It would turn west on Main Street to Iowa Street and head south on Iowa Street to Martin Luther King Boulevard. It would turn east on Martin Luther King Boulevard to Canyon Crest Drive. On Canyon Crest Drive, the line would head south and end at Via Vista Drive where it would connect into Line 2001. The natural gas supply line will be completed in segments. The segments vary in length from 0.3 miles to 2.5 miles.

Potable water will be provided via a new pipeline approximately 1,300 feet long and 8 to 12 inches in diameter. It will connect to an existing water main that will be extended from Main Street along Taylor Street.

Open trench construction will be the primary type of construction. Any open trench will be covered with plywood or steel plates at the end of each workday. Accordingly, drainage from the linear construction areas will not be altered and it will follow existing drainage patterns along the roadways or other rights-of-way.

2.6 Proposed Drainage

2.6.1 Highgrove Project Areas

After final site design and prior to construction, the Applicant will be required to finalize this Drainage, Erosion and Sediment Control Plan (DESCP)/Construction SWPPP. During construction, the Applicant will be required to follow this DESCP/SWPPP to prevent the offsite migration of sediment and other pollutants and to reduce the effects of runoff from the construction site. BMPs to be used at the site will be fully addressed in the final DESCP/SWPPP; the DESCP/SWPPP will include the location of BMPs to be used, installation instructions, and maintenance schedules for each BMP.

Implementation of the project will alter existing drainage patterns. After construction, the rate of stormwater runoff would increase because of increased impervious surfaces. General site grading will provide positive drainage from buildings and structures. Stormwater will be directed to a detention pond via sheet flow. Figure 1-4 shows the post-construction runoff and drainage patterns.

The area within the Tank Farm Property berms will be approximately 6.5 acres (Figure 1-4). The total stormwater runoff for the 6.5-acre developed site would be approximately 1.62 acre-feet for a 10-year, 48-hour storm. The onsite detention basin will be designed to contain this flow. Stormwater calculations are attached as Appendix B.

2.6.2 Highgrove Project Linear Construction Areas

Implementation of the project will not alter existing drainage patterns along the roadways or other rights-of-way.

2.7 Construction and Maintenance Access Road

Site access for construction and maintenance will be provided via existing access roads. Primary access to the site will be provided via an existing entrance from Taylor Street, with vicinity access via Interstate 215 (I-215). A secondary entrance will be provided via Adventure Way on the north.

2.8 Earthwork

2.8.1 Highgrove Project Site Earthwork

Excavation work will consist of removal, storage, and/or disposal of earth, sand, gravel, vegetation, loose rock, and debris to the lines and grades necessary for construction. Materials suitable for backfill will be stored in stockpiles at designated locations using proper erosion protection methods. Excess materials will be incorporated into the unused portion of the site or removed from the site and disposed of at an acceptable location.

The proposed Highgrove Project site includes a portion of the former Highgrove Generating Station Property and all of the Tank Farm Property. The southern portion of the Highgrove Generating Station Property is nearly level due to previous grading. The Tank Farm Property included berms to contain any oil resulting from a potential tank rupture. These berms still exist and the plant will be built below grade (approximately 3 to 8 feet) inside the bermed area. Grading will be necessary to allow transition between the lower portion and the ground surface. The separator between the two basins also will need to be removed.

Graded areas will be smooth, compacted, free from irregular surface changes, and sloped to drain. Structures will be designed to meet appropriate seismic requirements (the site is located in Seismic Risk Zone 4) and California Building Code requirements. Areas to be backfilled will be prepared by removing unsuitable materials and rocks. The bottom of an excavation will be examined for loose or soft areas. Such areas will be excavated fully and backfilled with compacted fill.

Backfilling will be done in layers of uniform, specified thickness. Soil in each layer will be properly moistened to facilitate compaction to achieve the specified density. To verify compaction, representative field density and moisture-content tests will be performed during compaction in accordance with ASTM standards.

2.8.2 Highgrove Project Linear Construction

The Highgrove Project includes the construction of a proposed approximately 7-mile, 12-inch diameter natural gas pipeline from the Highgrove Project to SoCalGas' Line 2001. Construction primarily will be open trench. However, trenchless methods [e.g., Horizontal Auger Boring and horizontal directional drilling (HDD)] may also be employed to cross railroads, busy intersections or streams. Trench excavation will consist of concrete/asphalt

cutting and making subgrade to the depth, width, and grade necessary for construction of the pipeline. Disturbed soils such as those from trench excavation will be hauled away, backfilled into the trench, and/or covered (e.g. metal plates, pavement, plastic covers over spoil piles) at the end of the construction day. Materials suitable for backfill will be stored in stockpiles at designated locations using proper erosion and sediment control methods. Excess materials (i.e., asphalt debris, earth, sand, gravel, loose rock) will be incorporated into the unused portion of the site or removed from the site and disposed of at an acceptable location.

Areas to be backfilled will be prepared by removing unsuitable materials and rocks. The bottom of an excavation will be examined for loose or soft areas. Such areas will be excavated fully and backfilled with compacted fill.

Backfilling will be done in layers of uniform, specified thickness. Soil in each layer will be properly moistened to facilitate compaction to achieve the specified density. To verify compaction, representative field density and moisture-content tests will be performed during compaction in accordance with ASTM standards.

2.9 Potential Pollutant Sources

Construction of the project will involve handling a large variety of building materials. The primary potential pollutant source for stormwater during the construction of the Highgrove Project results from soil materials being exposed to wind and water movement. The greatest amount of soil will be exposed during trench excavation for the linear facilities and the demolition, preparation, and site grading phases of the project. Upon completion of the foundation phase, the amount of soil exposed will be significantly reduced. Due to the controls and BMPs described in subsequent sections of this SWPPP, soils and sediments in stormwater runoff from the Highgrove Project site will be minimized.

Other chemicals that could be potentially stored and used during construction of the facility include: gasoline, diesel fuel, oil, lubricants (i.e., motor oil, transmission fluid, and hydraulic fluid), solvents, adhesives, asphalt products, and paint materials. There are no feasible alternatives to these materials for construction or operation of construction vehicles and equipment, repaving areas, pouring concrete, or for painting and caulking buildings and equipment. Material Safety Data Sheets for each chemical used will be kept onsite, and construction employees will be made aware of their location and content. The contractor will be responsible for assuring that the use, storage and handling of these materials will comply with applicable federal, state, and local laws, ordinances, regulations, and standards (LORS), including licensing, personnel training, accumulation limits, reporting requirements, and record keeping.

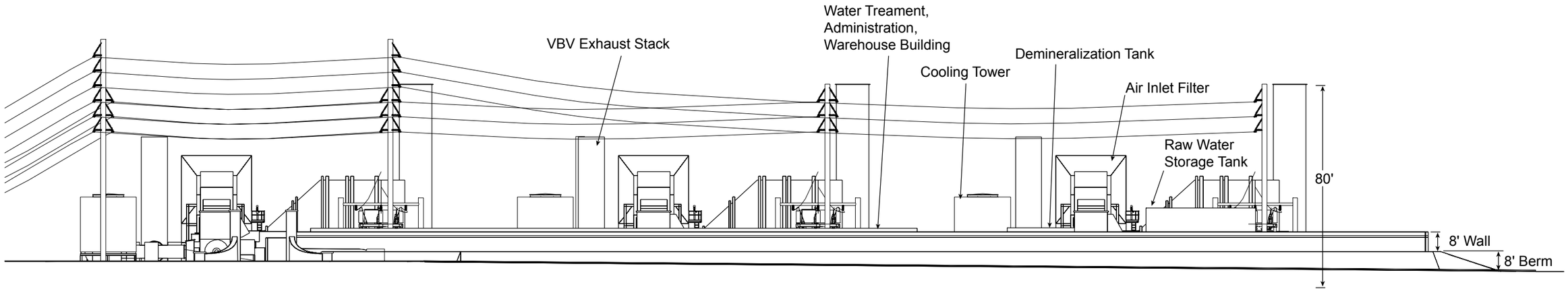

FIGURE 2-1
PLANT ELEVATION LOOKING WEST
AES STORMWATER POLLUTION PREVENTION PLAN
GRAND TERRACE, CALIFORNIA

CH2MHILL

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FIGURE 2-2
CONCEPTUAL IMAGE OF THE AES HIGHGROVE SITE
AES STORMWATER POLLUTION PREVENTION PLAN
GRAND TERRACE, CALIFORNIA

CH2MHILL

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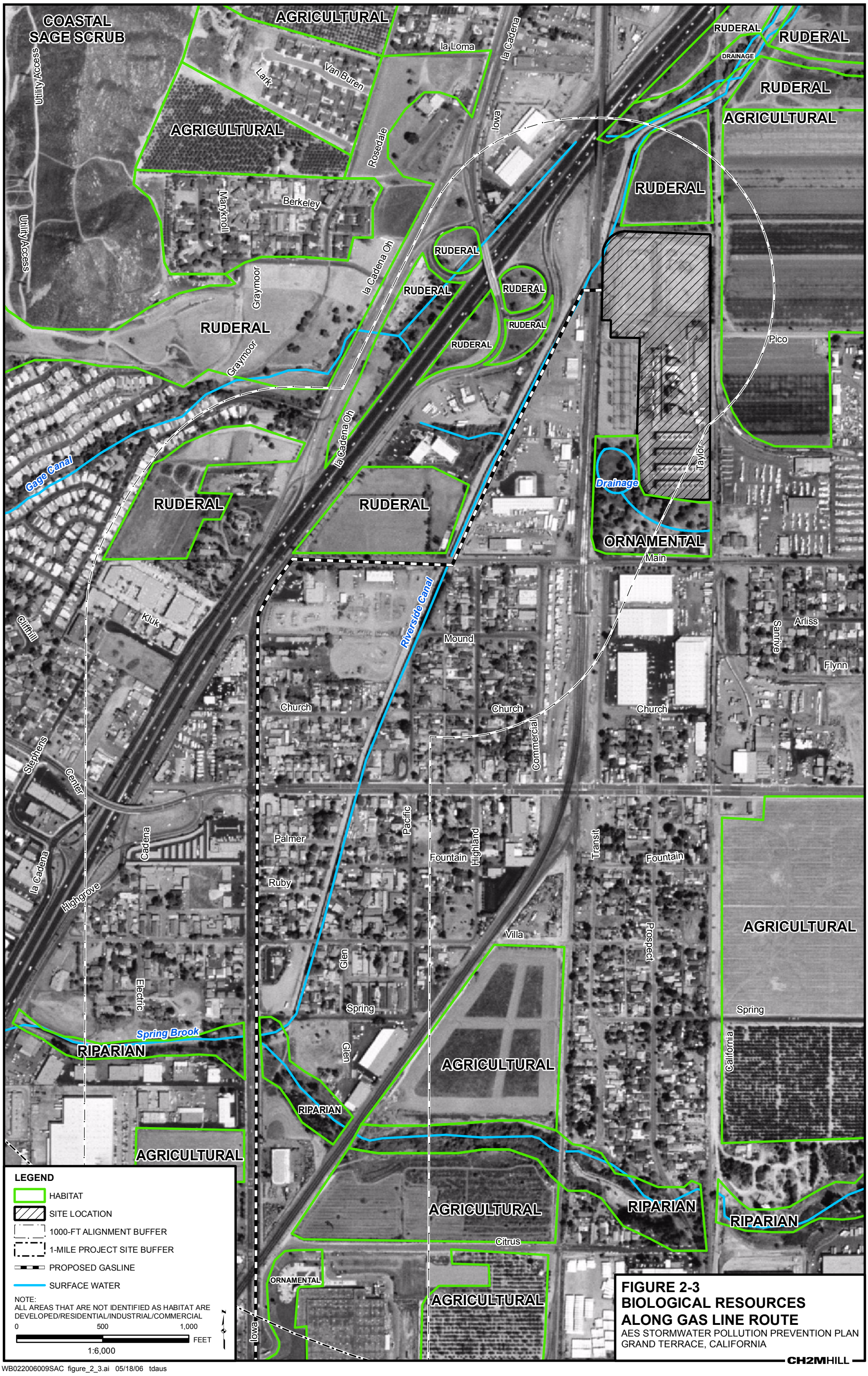

FIGURE 2-3
BIOLOGICAL RESOURCES ALONG GAS LINE ROUTE
AES STORMWATER POLLUTION PREVENTION PLAN
GRAND TERRACE, CALIFORNIA

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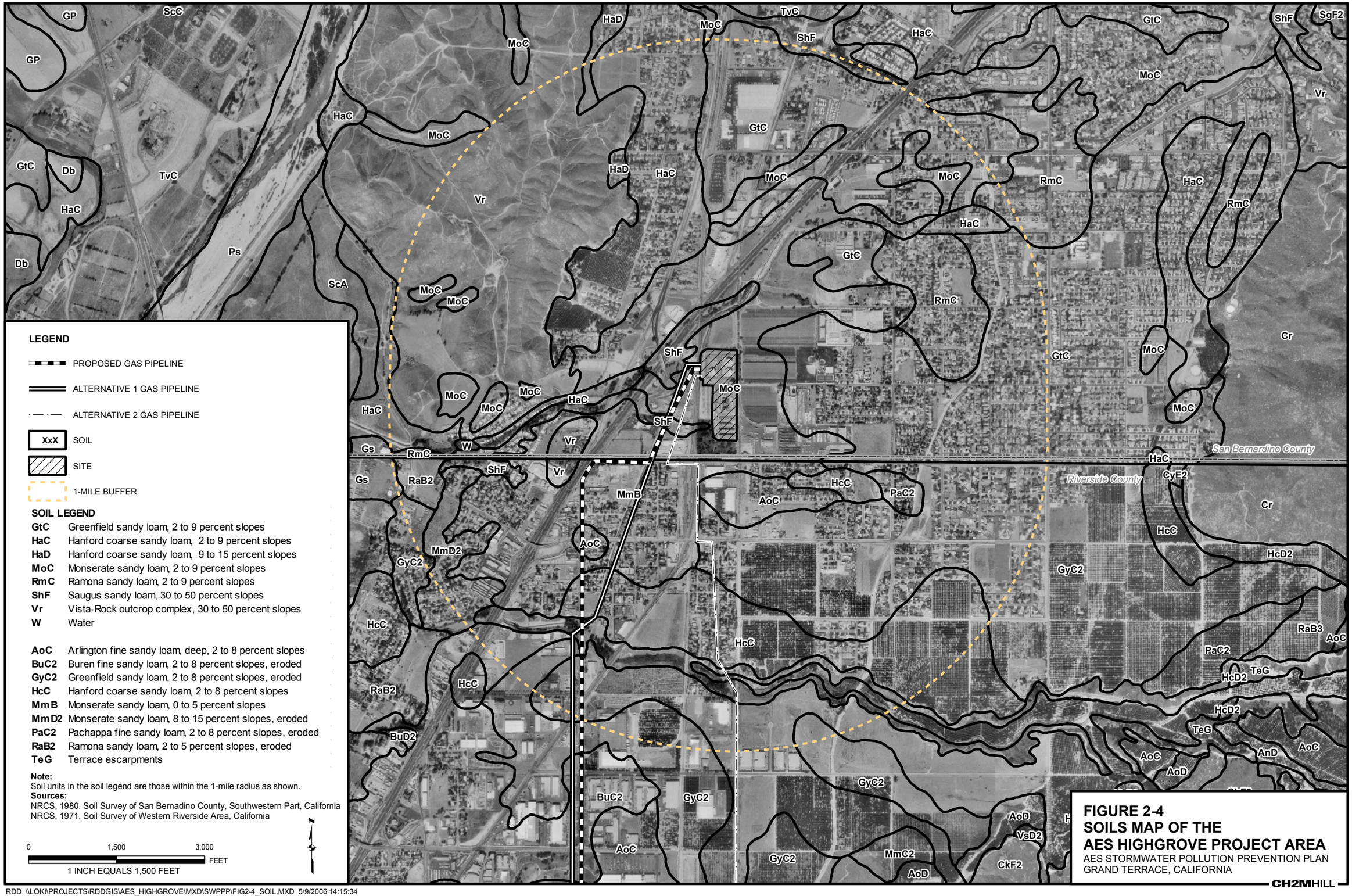

FIGURE 2-4
SOILS MAP OF THE
AES HIGHGROVE PROJECT AREA
AES STORMWATER POLLUTION PREVENTION PLAN
GRAND TERRACE, CALIFORNIA

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RDD \\LOKI\PROJECTS\RDDGIS\AES_HIGHGROVE\MXD\SWPPP\FIG2-4_SOIL.MXD 5/9/2006 14:15:34

LEGEND

- PROPOSED GAS PIPELINE
- ALTERNATIVE 1 GAS PIPELINE
- ALTERNATIVE 2 GAS PIPELINE
- XxX SOIL
- SITE

SOIL LEGEND

AoA	Arlington fine sandy loam, deep, 0 to 2 percent slopes
AoC	Arlington fine sandy loam, deep, 2 to 8 percent slopes
ApB	Arlington loam, deep, 0 to 5 percent slopes
ArB	Arlington loam, deep, 0 to 5 percent slopes
ArD	Arlington loam, deep, 5 to 15 percent slopes
BuC2	Buren fine sandy loam, 2 to 8 percent slopes, eroded
BuD2	Buren fine sandy loam, 8 to 15 percent slopes, eroded
FaD2	Fallbrook sandy loam, 8 to 15 percent slopes, eroded
FaE2	Fallbrook sandy loam, 15 to 25 percent slopes, eroded
GyC2	Greenfield sandy loam, 2 to 8 percent slopes, eroded
HcA	Hanford loamy fine sand, 0 to 8 percent slopes
HcC	Hanford coarse sandy loam, 2 to 8 percent slopes
HgA	Hanford fine sandy loam, 0 to 2 percent slopes
MaB2	Madera fine sandy loam, 2 to 5 percent slopes, eroded
MmB	Monserate sandy loam, 0 to 5 percent slopes, eroded
MoC*	Mottsville loamy sand, 2 to 8 percent slopes
RsC	River wash
TeG	Terrrace escarpments
VsF2	Vista coarse sandy loam, 15 to 35 percent slopes, eroded

Notes:
1. Soil units in the soil legend are those found along the proposed gas supply pipeline route within Riverside County only.

2. Soil mapping unit descriptions for soils within San Bernardino County are shown on Figure 8.9-1.

* The soil mapping unit symbol "MoC" has a different designation between the Soil Survey of Western Riverside County (NRCS, 1971) and the Soil Survey of San Bernardino County (NRCS, 1980)

Source:
NRCS,1971. Soil Survey of Western Riverside Area, California

0 2,100 4,200 FEET

1 INCH EQUALS 2,100 FEET

N

FIGURE 2-5
SOILS MAP OF THE NATURAL GAS PIPELINE

AES STORMWATER POLLUTION PREVENTION PLAN
GRAND TERRACE, CALIFORNIA

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RDD \\LOKI\PROJECTS\RDDGIS\AES_HIGHGROVE\MXD\SWPPP\FIG2-5_SOIL_GASLINE.MXD 5/9/2006 14:18:10

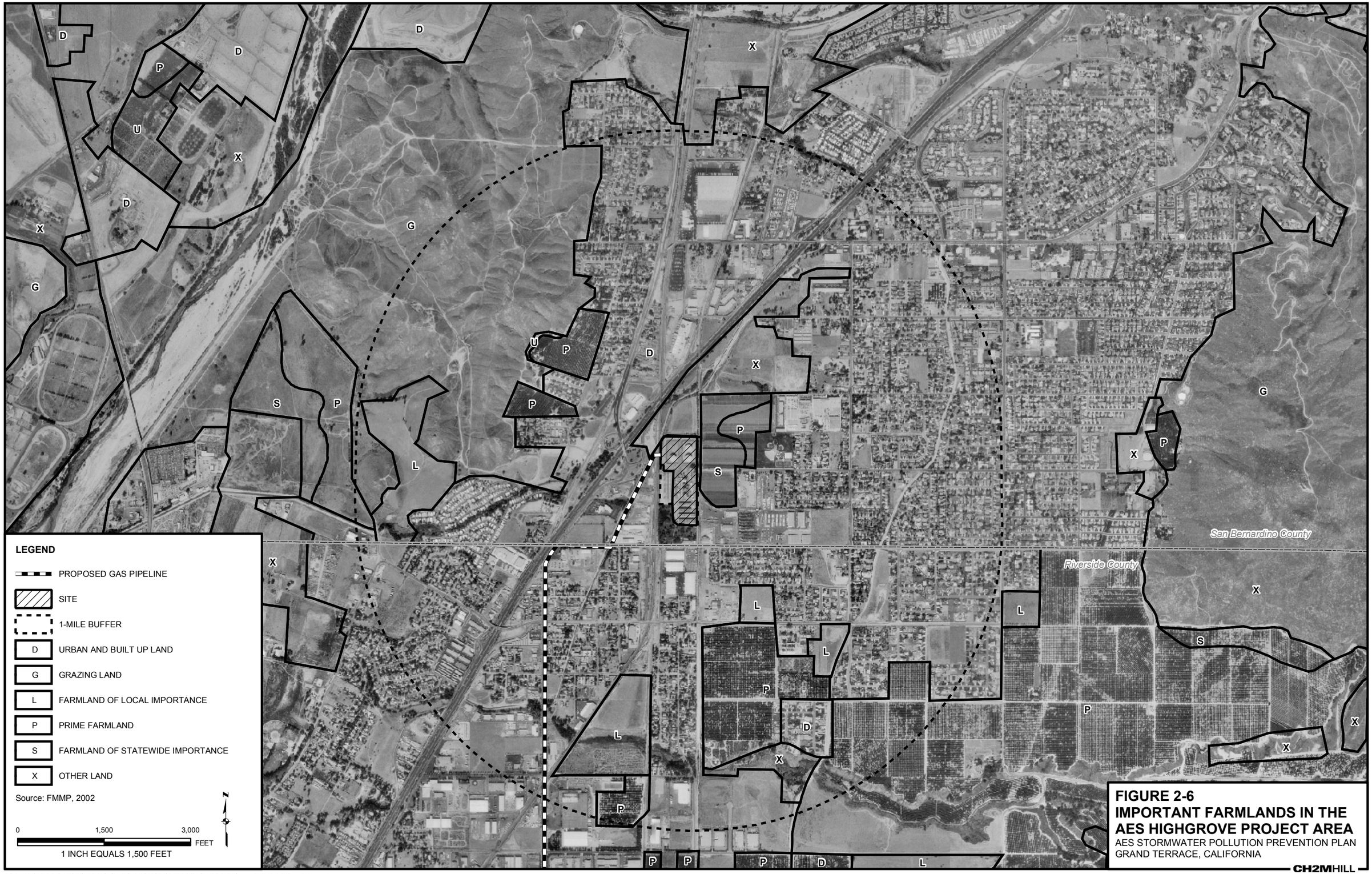

FIGURE 2-6
IMPORTANT FARMLANDS IN THE AES HIGHGROVE PROJECT AREA
AES STORMWATER POLLUTION PREVENTION PLAN
GRAND TERRACE, CALIFORNIA

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RDD \\LOKI\PROJECTS\RDDGIS\AES_HIGHGROVE\MXD\SWPPP\FIG2-6_FMMP.MXD 5/9/2006 14:20:25

SECTION 3

Erosion Control Plan

3.1 Best Management Practices

The following sections present standard construction Best Management Practices (BMPs) most of which are described in the *California Storm Water Best Management Practice Handbook* (1993) and the *Caltrans Storm Water Quality Handbook* (2003). These resource handbooks provide comprehensive details on BMP implementation and will be obtained and reviewed by managers for all construction contractors that may have an impact on implementation of the SWPPP. Additional BMPs are described where appropriate. The BMPs outlined in this SWPPP are considered the minimum requirements for erosion and sediment control. Specific BMPs are described in this section, but at this time, no BMP site map has been designed. Figure 3-1 illustrates installation methods for various BMPs. When the site is graded and topographical maps for the site have been developed, site-specific BMPs will be designed on the project site maps (Figures 3-2, 3-3, and 3-4 to be provided by the contractor). Appendix C contains the Caltrans BMP factsheets with detailed descriptions of BMPs discussed in the following sections.

3.2 General Erosion and Sediment Control Measures

The project has been designed to impact as small an area as possible at any given time, thereby limiting the amount of exposed soil. Construction is expected to proceed as expediently and efficiently as possible, while maintaining all levels of safety, thereby ensuring that as little soil is exposed for as short a time as possible. Work areas may be surrounded by dikes, drainage swales, sand bags, or combinations of these to prevent run-on and uncontrolled run-off from the work area. General erosion and sediment controls may include installation of filter fabric fencing, fiber rolls, or sand bags wherever appropriate. It may be appropriate to surround the site and neighboring laydown area with filter fabric fencing (silt fencing) and/or fiber rolls. All drains on surface streets surrounding the site will be protected with gravel bags and/or silt sacks.

A mitigation monitoring plan will also be developed in conjunction with California Energy Commission (CEC) staff to set performance standards and monitor the effectiveness of mitigation measures. This plan will address the timing and methods of such measures, as well as reporting and response requirements. Personnel will receive training to conduct their jobs properly and recognize and report abnormal/adverse situations so that they can be quickly corrected.

Following are general control measures that may be used during various phases of the project and in conjunction with phase-specific BMPs (see Appendix C):

- Proper scheduling and sequencing of activities (BMP SS-1)
- Silt Fences and Fiber Rolls (BMP SC-1 and SC-5)
- Straw mulch (BMP SS-6)

- Placement of geotextiles, plastic covers, & erosion control blankets/mats (BMP SS-7)
- Gravel bag berm (BMP SC-6)
- Street sweeping (BMP SC-7)
- Sandbag barrier (BMP SC-8)
- Storm drain inlet protection (BMP SC-10)
- Stockpile management (BMP WM-3)
- Dust control (BMP WE-1)
- Employee and contractor training

3.2.1 Access Road, Entrance and Parking, Staging and Laydown Areas

Plant Site and Laydown Area

Approximately 9.8 acres will be used to accommodate the generation facilities. Parking areas for construction workers and laydown areas for construction materials will be prepared within the former Highgrove Generating Station plant site, south of the construction area. Figure 1-3 illustrates the general location of the construction laydown area. The laydown area is a previously disturbed, flat parcel of land. It is completely developed with buildings, asphalt surfaces, and some landscape vegetation. This area will be demolished as part of the project. The laydown area will be devoted to equipment and materials laydown, storage, construction equipment and employee parking, and office trailers. The total construction laydown area will be approximately 7.5 acres.

The plant entrance/exit off of Taylor Street will be stabilized using coarse aggregate. The aggregate cover will be maintained so as to limit sediment tracking and creation of dust. Filter fabric fencing (silt fencing) may be used at edges of these areas, as necessary, to minimize sediment discharges. The following BMPs may be used for construction access areas:

- Proper scheduling and sequencing of activities (BMP SS-1)
- Silt fencing (BMP SC-1)
- Fiber Rolls (BMP SC-5)
- Storm drain inlet protection (BMP SC-10 or silt sacks)
- Stockpile Management (WM-3)
- Stabilizing surfaces with coarse aggregate
- Compacting access/entrance road surfaces (BMPs TC-1 and TC-2)
- Placement of geotextile (BMP SS-7)
- Dust control (BMP WE-1)
- Temporary drains and swales (BMP SS-9)
- Vehicle and equipment cleaning (BMP NS-8)

Linear Construction Access

The project will include the construction of a nominal 300-megawatt (MW) peaking facility consisting of three natural gas-fired turbines and associated equipment; approximately 7 miles of 12-inch diameter natural gas pipeline that will connect to SoCalGas' Line 2001 at the intersection of Canyon Crest Drive and Via Vista Drive; a connection to SCE's electrical transmission system via the adjacent 115-kV Highgrove Substation; and a connection to the existing potable water main in Taylor Street.

Site access for construction and maintenance will be provided via existing city roads. Access roads are currently paved and prior to disturbance do not need to be provided with erosion and sediment controls. Prior to ground-disturbance associated with the linear construction phases, all or a combination of these BMPs may be used:

- Proper scheduling and sequencing of activities (BMP SS-1)
- Straw mulch (BMP SS-6)
- Placement of geotextiles, plastic covers, & erosion control blankets/mats (BMP SS-7)
- Silt fencing (BMP SC-1)
- Fiber rolls (BMP SC-5)
- Gravel bag berm (BMP SC-6)
- Street sweeping and vacuuming (BMP SC-7)
- Sandbag barrier (BMP SC-8)
- Storm drain inlet protection (BMP SC-10 or silt sacks)
- Stockpile management (BMP WM-3)
- Dust control (BMP WE-1)

3.2.2 Site Grading

Prior to use as the construction laydown area, no grading will be necessary since the site is flat and completely developed with buildings, asphalt surfaces, and some landscape vegetation. The site may be graveled to provide all weather use and further minimize soil erosion potential. Heavy equipment stored onsite will be placed on dunnage to protect it from ground moisture. Once construction is completed, the gravel will be removed from the site.

Grading will be required for the plant site. The overall plant site grading scheme is designed to route surface water around and away from all equipment and buildings. The site will be constructed below grade; therefore, it is not considered necessary to place barriers around the property boundary. However, some barriers would be placed in locations where offsite drainage could occur to prevent sediment from leaving the site. If used, fiber rolls would be properly installed (staked), then removed after construction. Runoff detention basins, drainage diversions, and other large-scale sediment traps are not considered necessary due to the level topography and surrounding paved roads. Any stockpiles would be stabilized and covered if left onsite for long periods of time, including placement of sediment barriers around the base of the stockpile. These methods can be employed during trenching operations for the natural gas line.

3.2.3 Foundations

As the foundation for the project structures are developed, temporary BMPs will be replaced with permanent BMPs. Sediments and hydrocarbons will be minimized or prevented from entering the surface collectors with storm drain inlet protection devices and rings of hydrocarbon-absorbing fabric.

A concrete washout site will be designated or will occur offsite at the concrete contractor's facility. Dumping of excess concrete and washing out of delivery vehicles will be prohibited onsite. Notices will be posted to inform all drivers.

The following BMPs will be used around foundations:

- Storm drain inlet protection (BMP SC-10 or silt sacks)
- Concrete waste management (BMP WM-8)

3.2.4 Site Stabilization and Demobilization

As construction nears completion, areas used for parking, storage and laydown will be stabilized. Areas that will continue to be used (for parking or storage) will have permanent stormwater collection and conveyance structures provided. All disturbed areas associated with the linear facilities will be stabilized.

3.3 Other Controls

3.3.1 Hazardous Materials

There will be a variety of chemicals stored and used during the construction and operation of the Highgrove Project. The storage, handling, and use of all chemicals will be conducted in accordance with applicable LORS. Chemicals will be stored in appropriate chemical storage facilities. Bulk chemicals will be stored in storage tanks, and other chemicals will be stored in returnable delivery containers. Chemical storage and chemical feed areas will be designed to contain leaks and spills. Berm and drain piping design will allow a full-tank capacity spill without overflowing the berms. For multiple tanks located within the same bermed area, the capacity of the largest single tank will determine the volume of the bermed area and drain piping. Drain piping for volatile chemicals will be trapped and isolated from other drains to eliminate noxious or toxic vapors. After neutralization, if required, water collected from the chemical storage areas will be directed to the cooling tower basin. The aqueous ammonia storage area will have spill containment and ammonia vapor detection equipment

3.3.2 Solid and Hazardous Wastes

The construction of the facility will generate various types of non-hazardous solid wastes, including debris and other materials requiring removal during site grading and excavation, excess concrete, lumber, scrap metal, and empty non-hazardous chemical containers. Management of these wastes will be the responsibility of the construction contractor(s). The generation of waste materials will be minimized through efficient and careful use of materials, and recycling when possible. Non-hazardous materials will be used where acceptable to meet construction requirements. Drummed and bagged wastes will not be stored directly on the ground, and will be covered or stored indoors where feasible. Incompatible materials will be separated, and secondary containment will be provided for liquids. Sufficient spill cleanup materials will be kept in proximity to areas where materials are stored and used.

Small quantities of hazardous wastes will be generated over the course of construction. These may include flushing and cleaning fluids, passivating fluid (to prepare pipes for use), and solvents. All hazardous wastes generated during facility construction will be handled and disposed of in accordance with applicable laws, ordinances, regulations, and standards, including licensing, personnel training, accumulation limits and times, and reporting and

recordkeeping. The hazardous waste will be collected in satellite accumulation containers near the points of generation. It will be moved daily to the contractor's 90-day hazardous waste storage area, located at the site construction laydown area. The waste will be removed from the site by a certified hazardous waste collection company and delivered to an authorized hazardous waste management facility, prior to expiration of the 90-day storage limit.

Nonhazardous solid waste generated during construction will be collected in onsite dumpsters. The dumpsters will meet local and state solid waste management regulations, and be provided with solid lids or removable flexible covers. Wastes will be recycled where practical. Waste that cannot be recycled will be disposed of in a Class III landfill.

The following BMPs will be used at the designated storage locations:

- Cover or store hazardous materials indoors, if possible (BMP WM-1)
- Material delivery and storage (BMP WM-1)
- Material use (BMP WM-2)
- Spill Prevention and Control (BMP WM-4)
- Solid Waste Management (BMP WM-5)
- Hazardous Waste Management (BMP WM-6)
- Use of covered dumpsters and containers for waste (BMP WM-5)
- Sanitary and septic waste management (BMP WM-9)
- Stockpile management (BMP WM-3)

3.3.3 Potential Contaminated Soil

The proposed Highgrove Project site is located at the former Highgrove Generating Station. The site will be located on the former oil tank farm site, located north of the former generating equipment. The former tank farm site included berms to contain any oil resulting from a potential tank rupture. These berms still exist and the plant will be built below grade inside the bermed area.

A Phase I Environmental Site Assessment (ESA) was performed by ARCADIS Geraghty and Miller, Inc. on the tank farm area in March 2000. This area included two asphalt-bermed areas that enclosed three 3,360,000-gallon aboveground fuel tanks and a helicopter landing pad. The ESA investigated the aboveground fuel tanks and piping, a cement-lined water channel, and an Edison-owned undeveloped property to the north of the tank farm area.

Previous investigations cited by the ESA include a Baseline Tank Study Report conducted in 1996, a Phase 1 ESA on the Highgrove Generating Station conducted in 1997, and a Phase II ESA conducted in 1997. For the Baseline Tank Study Report, soil samples were collected from a depth of 3 feet from excavations at four locations around the perimeter of each storage tank. Total petroleum hydrocarbons (TPH) were detected at concentrations below 1,000 parts per million (ppm) at all sampling locations. In addition, concentrations of TPH below 1,000 ppm were detected beneath the fuel tanks. These findings were attributed by Edison to the application of oil to the tank area for corrosion protection and no further action was recommended. The 1997 Phase I ESA noted that no regulatory agency concurrence with the no further action recommendation had been obtained. The Phase II ESA conducted in 1997 did not include soil sampling in the vicinity of the fuel tanks, but it

did compare the results of the Baseline Tank Investigation soil analysis to Phase II screening criteria values. The Phase II report concluded that no further action was needed for the ASTs, but that negotiation, additional investigation, and/or remediation may be appropriate during decommissioning of the tanks.

3.3.4 Groundwater Controls

Groundwater at the project site is currently not used for potable water, and project construction will have no effect on groundwater. The linear facilities, minor excavation and foundation structures required for the Highgrove Project would not result in any substantial change from the existing groundwater flow and conditions at the site. During construction, the project would be subject to LORS requiring standards for isolating and controlling offsite runoff and contaminants that could enter groundwater. During construction, the project would isolate all work areas using fiber, rolls, mats or similar devices to keep contaminated runoff from leaving the site.

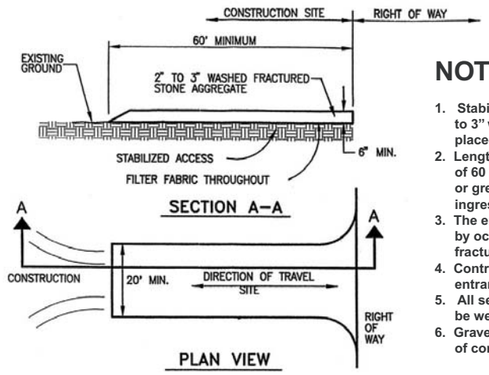
3.3.5 Offsite Vehicle Tracking

Because sediment reaching public roads generally has a clear path to water bodies, controls will be in place to minimize or eliminate soils from being tracked off the project site from vehicles. The site will have an access road and entrance/exit made of coarse aggregate to limit the amount of material adhering to tires. Paved roads used during the linear facilities construction phase and those located at the entrance of the construction site will be inspected daily and cleaned as necessary using manual or mechanical street sweepers (BMP SC-7).

3.3.6 Dust Suppression and Control

Wind erosion controls shall be evaluated and implemented as needed throughout the duration of the project on all disturbed soils on the project site and linear facility sites that are subject to wind erosion, and when significant wind and dry conditions are anticipated during project construction. Wind controls will be used to prevent the transport of soil from soil-disturbed areas of the project site. The following control methods will be used for dust suppression, as necessary:

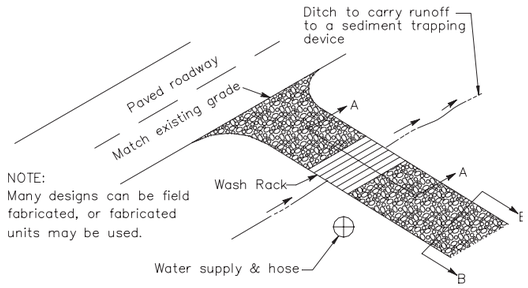
- Water aggregate roadways, parking areas and construction areas as needed (BMP WE-1).
- Cover all trucks hauling soil, sand and other loose materials offsite or require all trucks to maintain at least 18 inches of freeboard.
- Sweep adjacent streets and onsite paved roadways (BMP SC-7).
- Hydroseed or apply non-toxic soil stabilizers to inactive or completed construction areas as soon as is practical (BMP SS-4 or SS-5).
- Enclose, cover, water or apply non-toxic soil stabilizers to exposed stockpiles of sand, dirt, etc. (BMP WM-3).
- Limit traffic speed onsite to 15 mph or less.
- Suspend excavation and grading during periods of high winds.



NOTES:

1. Stabilized construction entrance shall be 2" to 3" washed fracture stone. Material shall be placed to a minimum thickness of 6".
2. Length of entrance shall be a minimum length of 60 feet. Width must be a minimum of 20 feet, or greater if necessary to cover all vehicular ingress and egress.
3. The entrance shall be kept in good condition by occasional top dressing with additional fractured stone, similar in size.
4. Contractor shall inspect each construction entrance daily and after each rainfall.
5. All sediment deposited on paved roadway shall be wet swept at the end of each working day.
6. Gravel and filter fabric shall be removed at end of construction.

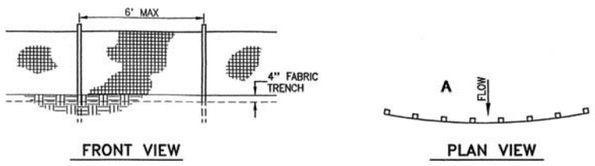
1. Stabilized Construction Site Access



NOTES:

1. Will be constructed on level ground, on a pad of coarse aggregate, greater than 3" but smaller than 6".
2. Wash rack shall be designed and constructed for anticipated traffic loads.
3. Drainage ditch will convey the runoff from the wash area to a sediment sump device. The drainage ditch shall be of sufficient grade, width, and depth to carry the wash runoff.
4. Inspect routinely for damage and repair as needed.

2. Typical Tire Wash

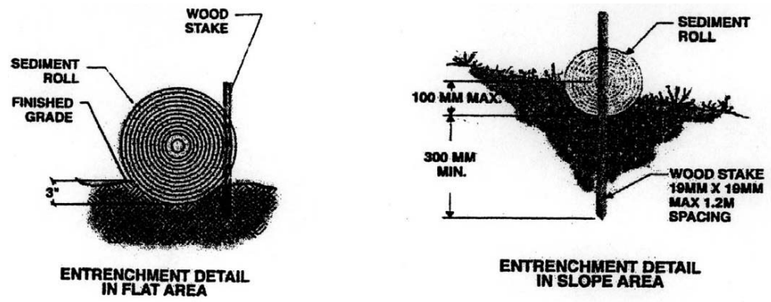


NOTES:

1. Silt fence shall be constructed along the perimeter of construction area where needed;
2. Filter fabric shall be propylene, nylon, polyester or ethylene yarn containing ultraviolet inhibitors. Filter fabric shall have a minimum efficiency of 75 percent and minimum tensile strength of 50 lbs./lineal foot at 20 percent maximum elongation;
3. Support posts shall be a minimum 3 foot length 2"x4" wood posts driven a minimum of 12" into the ground. Posts shall be spaced a maximum of 6' apart. Fabric shall be securely fastened to posts with 16 gauge wire ties spaced a maximum of 6" apart.
4. A minimum 4" trench shall be excavated along the uphill side of the posts. The bottom of the fabric shall extend to the bottom of the trench and at a minimum of 4" across the bottom of the trench. The trench shall be backfilled to 4" above ground and compacted to bury and secure the bottom of the filter fabric.
5. Contractor shall make daily inspections to determine if repairs and sediment removal is required. Sediment shall be removed before it has reached 8 inches in height upstream of the filter fabric.

3. Silt Fence Detail

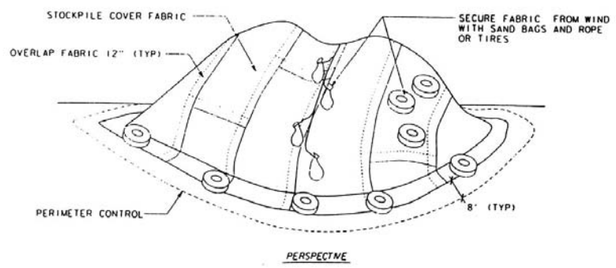
Note: Fiber rolls are not intended for use in concentrated flow situations.



NOTES:

1. Fiber rolls are typically placed along the perimeter of the property line. If heavy sediment is a concern, then the use of silt fences is more appropriate (refer to Silt Fence Detail).
2. Follow manufacturer's recommendations for installation, as well as the following:
3. Fine grade the subgrade where necessary to remove local deviations and to remove larger stones or debris that will inhibit intimate contact of the fiber roll with the subgrade;
4. Prior to installation, contour a concave key trench 2" to 4" deep along the proposed installation route;
5. Soil excavated in trenching should be placed on the uphill side or flow side of the roll to prevent water from undercutting the roll;
6. Place fiber rolls into the key trench and stake on both sides of the roll within 6 feet of each end and along lenght of roll with a minimum of 1"x2"x18" stake;
7. Drive stakes on alternating sides of roll. When placed in a continuous row, rolls should be abutted securely to one another to provide a tight joint, not overlapped.
8. Contractor shall make daily inspections to determine if repairs are necessary. Repair or replace split, torn, unraveling or slumping fiber rolls.

4. Fiber Roll Detail



NOTES:

All stockpiled excavated soils to be stabilized, as follows:

1. If appropriate, stockpile will be covered with plastic, tarpaulins or equivalent and anchored in place with sand bags and rope, tires, or equivalent, or;
2. Stockpile(s) to be treated with chemical dust control material and
3. Perimeter control will include fiber rolls around the entire base of the stockpile(s).
4. Contractor shall make daily inspections to determine sediment loss, if any. In the event of sediment loss, appropriate steps must be taken to secure the stockpile(s).

5. Stockpile Protection

FIGURE 3-1
AES HIGHGROVE EROSION AND SEDIMENT CONTROL PLAN
EXAMPLE INSTALLATION METHODS
AES STORMWATER POLLUTION PREVENTION PLAN

INSERT FIGURE 3-2 BMP MAP MAIN SITE
Will be provided by contractor for Final document

INSERT FIGURE 3-3 BMP MAP- WATER LINE
Will be provide by contractor for Final Document

INSERT FIGURE 3-4 BMP MAP- GAS AND TRANSMISSION LINES
Will be provided by contractor for Final document

SECTION 4

Training

Prior to project startup, all designated onsite representatives will participate in a pre-project stormwater training workshop. The workshop will cover basic stormwater information, the requirements of the general permit, and the SWPPP. Specifically, the workshop will focus on implementation, inspection, and maintenance of stormwater controls. All new employees will be trained by staff familiar with these topics.

As required by the SWRCB, individuals responsible for SWPPP preparation, implementation, and permit compliance will be appropriately trained, and the training will be documented. This includes those personnel responsible for installation, inspection, maintenance, and repair of BMPs. Those responsible for overseeing, revising, and amending the SWPPP shall also document their training.

All contractors are responsible for familiarizing their personnel with the information contained in the SWPPP. Contractors will be informed of this obligation and will be expected to have one or more employee training or briefing sessions conducted. The purpose of the meetings will be to review the proper installation methods and maintenance of all erosion control BMPs to be used on the project. Monitoring and inspection activities will only be conducted by individuals who have had additional training specific for this purpose. Training records will be maintained. All contractors are responsible for familiarizing subcontractors with information contained in the SWPPP.

Each contractor will be required to certify that they understand the requirements of the SWPPP, and will perform their duties in accordance with its requirements. An example Certification Form is included as Appendix D. These signed Certifications will be collected by the Project Manager (or designee) to identify authorized contractors in the SWPPP (see Appendix E).

SECTION 5

Maintenance, Inspection, and Repair

5.1 Maintenance

Erosion and sediment control structures must be maintained to remain effective. Features that are washed out or damaged will be repaired as soon as possible, contingent at all times on worker safety. Structures designed to accumulate sediment will have sediment removed in advance of the rainy season, and before major storm events. The following criteria will be used to determine whether erosion and sediment control features should be cleaned, repaired, or replaced:

- Sediment or other debris has accumulated to greater than one-third the height of sediment fabric fences.
- Sediment or debris has reduced the storage capacity of sediment traps by 50 percent or more
- More than one-third of the cross-section of conveyance structures, such as drainage swales or ditches are plugged or blocked

In addition, the following maintenance activities will be performed:

- Paved roads immediately surrounding the construction sites will be cleaned as necessary using manual or mechanical street sweepers.
- Coarse aggregate on plant access road and entrance/exit will be maintained so as to limit sediment tracking and creation of dust.
- Surfaces that are not paved or provided with gravel surfacing will be watered to limit the generation of dust (but will not be excessively watered so as to generate runoff).
- All equipment will be maintained according to manufacturers' specifications so as to prevent leaks and spills.
- Any contaminated soils resulting from spills will be dug up as quickly as possible, and then removed from the site for proper disposal.

5.2 Inspections and Record Keeping

Inspections of the construction sites will be conducted prior to anticipated storm events and after actual storm events that cause runoff from the site. This will be accomplished by conducting weekly inspections. In addition, inspections will be made during each 24-hour period during extended storm events. SWPPP inspections may be conducted in conjunction with other facility inspections. For instance, if a regulated amount of petroleum materials is onsite and there is a Spill Prevention, Control and Countermeasures Plan (SPCC), the SWPPP inspections may be conducted in conjunction with SPCC inspections.

The goals of these inspections are: (1) to identify areas contributing to a stormwater discharge; (2) to evaluate whether measures to reduce pollutant loadings identified in the SWPPP are adequate, properly installed and functioning in accordance with the terms of the General Permit; and (3) whether additional control practices or corrective maintenance activities are needed.

Personnel responsible for inspections before, during and after storm events will receive additional training specific for this purpose. This can take the form of formal classroom training and/or "walk-around" with an experienced individual, who discusses the appropriate conditions and those conditions requiring action. The Project Manager (or designee) will maintain a list of authorized inspection individuals for the SWPPP (Appendix F).

All required inspections will be recorded on an inspection form (Appendix G). Records of SWPPP inspections will be maintained onsite for at least 3 years. An example checklist will contain, at a minimum, the following information required by the Regional Water Quality Control Board:

- Inspection date
- Weather information: best estimate of beginning of storm event, duration of event, time elapsed since last storm, and approximate amount of rainfall (inches)
- Description of any inadequate BMPs
- If possible to safely access during inclement weather, observations of all BMPs: erosion controls, sediment controls, chemical and waste controls, and non-stormwater controls; otherwise, result of visual inspection at relevant outfall, discharge point, or downstream location and projected required maintenance activities.
- Corrective actions required, including any changes to SWPPP necessary and implementation dates
- Inspectors name, title, and signature

Records of all monitoring information, copies of all reports required by the general stormwater permit, and records of all data used to complete the Notice of Intent for the construction activity shall be held, retained, and kept in possession by the facility operator and/or contractor for at least 3 years.

The facility operator and/or contractor will annually certify that its construction activity is in compliance with the requirements of this general permit and its SWPPP. Noncompliance notifications will be submitted within 30 days of identification of noncompliance to the Regional Water Quality Control Board.

Equipment, materials, and workers will be available for rapid response to failures and emergencies. All corrective maintenance to BMPs will be performed as soon as possible, depending upon worker safety.

Prior to plan commencement, names of responsible personnel will be added to this plan.

SECTION 6

Sampling and Analysis Program

The General Permit requires permittees to implement specific sampling and analytical procedures to determine whether BMPs implemented on the construction site are:

- Preventing sediment impaired waters from further impairment by direct discharge of sediments in stormwaters to listed waters
- Preventing other pollutants (not visually detectable) from causing or contributing to exceedances of water quality objectives

6.1 Sampling and Analysis Plan for Sediment

This project does not have the potential to discharge directly to a water body listed as impaired due to Sedimentation/Siltation and/or Turbidity pursuant to Clean Water Act, Section 303(d); therefore a Sampling and Analysis Plan for Sediment is not required.

6.2 Sampling and Analysis Plan for Non-Visible Pollutants

The Sampling and Analysis Plan (SAP) for non-visible pollutants describes the sampling and analysis strategy and schedule for monitoring non-visible pollutants in stormwater discharges from the project site and offsite activities directly related to the project in accordance with the requirements of Section B of the General Permit, including SWRCB Resolution 2001-046.

6.2.1 Scope of Monitoring Activities

The following are common construction materials, wastes, or activities that are potential sources of non-visible pollutants to stormwater discharges from a project. Identification, storage, use, and operational locations of the potential sources at this project will be determined, identified on site maps, and incorporated into this SWPPP at a later date.

- Vehicle batteries
- Painting products
- Contaminated soil
- Line flushing products
- Dust palliative products
- Masonry products
- Landscaping products
- Concrete curing
- Sealants
- Adhesives
- Cleaning products

Soil amendments may be used on the project site that have the potential to change the chemical properties, engineering properties, or erosion resistance of the soil.

The project may have the potential to receive stormwater run-on with the potential to contribute non-visible pollutants to stormwater discharges from the project. There currently are no data available regarding stormwater run-on. This data will be added to the SWPPP when it is available.

Sampling for non-visible pollutants will be conducted when (1) a breach, leakage, malfunction, or spill is observed; and (2) the leak or spill has not been cleaned up prior to the rain event; and (3) there is the potential for discharge of non-visible pollutants to surface waters or drainage system.

6.2.2 Monitoring Strategy

Sampling Schedule

Samples for the applicable non-visible pollutant(s) and a sufficiently large uncontaminated background sample shall be collected during the first two hours of discharge from rain events that result in a sufficient discharge for sample collection. Samples shall be collected during daylight hours (sunrise to sunset) and shall be collected regardless of the time of year, status of the construction site, or day of the week.

In conformance with the U.S. Environmental Protection Agency definition, a minimum of 72 hours of dry weather will be used to distinguish between separate rain events.

Collection of discharge samples for non-visible pollutant monitoring will be triggered when any of the following conditions are observed during the required inspections conducted before or during rain events:

- Materials or wastes containing potential non-visible pollutants are not stored under watertight conditions. Watertight conditions are defined as: (1) storage in a watertight container, (2) storage under a watertight roof or within a building, or (3) protected by temporary cover and containment that prevents stormwater contact and runoff from storage area.
- Materials or wastes containing potential non-visible pollutants are stored under watertight conditions, but: (1) a breach, malfunction, leakage, or spill is observed, (2) the leak or spill is not cleaned up prior to the rain event, and (3) there is the potential for discharge of non-visible pollutants to surface waters or a storm sewer system.
- An operational activity with the potential to contribute non-visible pollutants (1) was occurring during or within 24 hours prior to the rain event, (2) applicable BMPs were observed to be breached, malfunctioning, or improperly implemented, and (3) there is the potential for discharge of non-visible pollutants to surface waters or storm sewer system.
- Soil amendments that have the potential to change the chemical properties, engineering properties, or erosion resistance of the soil have been applied, and there is the potential for discharge of non-visible pollutants to surface waters or a storm sewer system.

Sampling Locations

Considerations for determining sampling locations will be proximity to the non-visible pollutant of concern, accessibility for sampling, personnel safety, and other factors in accordance with the applicable requirements in the Permit.

Sampling locations for the collection of samples of run-on to the project site with the potential to combine with discharges being sampled for non-visible pollutants will be identified at a later date. These samples will be intended to identify sources of potential non-visible pollutants that originate off the project site.

A background sample location for comparison with the samples being analyzed for non-visible pollutants will be selected such that the sample will not have come in contacted with: (1) operational or storage areas associated with project materials, wastes, and activities; (2) areas in which soil amendments that have the potential to change the chemical properties, engineering properties, or erosion resistance of the soil have been applied; or (3) disturbed soil areas.

If an operational activity or stormwater inspection conducted 24 hours prior to or during a rain event identifies the presence of a material storage, waste storage, or operations area with spills or the potential for the discharge of non-visible pollutants to surface waters or a storm sewer system that was an unplanned location, sampling locations will be selected using the same rationale as that used to identify planned locations.

6.2.3 Monitoring Preparation

The person collecting samples on the project site will be selected at a later date.

Prior to the rainy season, all sampling personnel and alternates will review the SAP. Qualifications of designated personnel describing environmental sampling training and experience will be provided as an Attachment in this SWPPP.

An adequate stock of monitoring supplies and equipment for monitoring non-visible pollutants will be available on the project site prior to a sampling event. Monitoring supplies and equipment will be stored in a cool-temperature environment that will not come into contact with rain or direct sunlight. Sampling personnel will be available to collect samples in accordance with the sampling schedule.

Supplies maintained at the project site will include, but are not limited to, surgical gloves, sample collection equipment, coolers, appropriate number and volume of sample bottles, identification labels, re-sealable storage bags, paper towels, personal rain gear, ice, Sampling Activity Log forms, and Chain of Custody (COC) forms. Field equipment will be obtained and maintained for analyzing samples in the field.

6.2.4 Analytical Constituents

Identification of Non-Visible Pollutants

Table 6.2-1 lists common potential sources and types of non-visible pollutants on a project site and the applicable water quality indicator constituent(s) for that pollutant. The table will be updated with the onsite materials at a later date.

TABLE 6.2-1
Potential Non-Visible Pollutants and Water Quality Indicator Constituents

Pollutant Source	Pollutant	Water Quality Indicator Constituent
Sealant	Methyl Methacrylate, Cobalt, Zinc	Methyl Methacrylate, Cobalt, Zinc
Solvents/Thinners	VOC	COD, VOC
Adhesives	Phenols, SVOC	COD, Phenols, SVOC
Batteries	Sulfuric acid, Lead	Sulfuric acid, Lead, pH
Herbicides	Herbicide	Herbicide

6.2.5 Sample Collection and Handling

Procedures

Samples of discharge will be collected at the designated sampling locations for observed breaches, malfunctions, leakages, spills, operational areas, soil amendment application areas, and historical site usage areas that triggered the sampling event.

Grab samples will be collected and preserved in accordance with the methods identified in the Table included in the Sample Analysis Section. Only personnel trained in proper water quality sampling will collect samples.

Samples will be collected by placing a separate lab-provided sample container directly into a stream of water downgradient and within close proximity to the potential non-visible pollutant discharge location. This separate lab-provided sample container will be used to collect water, which will be transferred to sample bottles for laboratory analysis. The upgradient and uncontaminated background samples shall be collected first prior to collecting the downgradient to minimize cross-contamination. The sampling personnel will collect the water upgradient of where they are standing. Once the separate lab-provided sample container is filled, the water sample will be poured directly into sample bottles provided by the laboratory for the analyte(s) being monitored.

To maintain sample integrity and prevent cross-contamination, sampling collection personnel will:

- Wear a clean pair of surgical gloves prior to the collection and handling of each sample at each location.
- Not contaminate the inside of the sample bottle by not allowing it to come into contact with any material other than the water sample.
- Discard sample bottles or sample lids that have been dropped onto the ground prior to sample collection.
- Not leave the cooler lid open for an extended period of time once samples are placed inside.
- Not sample near a running vehicle where exhaust fumes may impact the sample.

- Not touch the exposed end of a sampling tube, if applicable.
- Avoid allowing rainwater to drip from rain gear or other surfaces into sample bottles.
- Not eat, smoke, or drink during sample collection.
- Not sneeze or cough in the direction of an open sample bottle.
- Minimize the exposure of the samples to direct sunlight, as sunlight may cause biochemical transformation of the samples to take place.
- Decontaminate sampling equipment prior to sample collection using a TSP-soapy water wash, distilled water rinse, and final rinse with distilled water.
- Dispose of decontamination water/soaps appropriately; i.e., not discharge to the storm drain system or receiving water.

Sample Handling Procedures

Immediately following collection, sample bottles for laboratory analytical testing will be capped, labeled, documented on a COC form provided by the analytical laboratory, sealed in a re-sealable storage bag, placed in an ice-chilled cooler, at as near to 4 degrees Celsius as practicable, and delivered within 24 hours to a California state-certified laboratory to be identified at a later date.

Any samples for field analysis will be tested immediately following collected in accordance with the field instrument manufacturer's instructions and results recorded on a Sampling Activity Log.

Sample Documentation Procedures

All original data documented on sample bottle identification labels, COC forms, Sampling Activity Logs, and Inspection Checklists will be recorded using waterproof ink. These will be considered accountable documents. If an error is made on an accountable document, the individual will make corrections by lining through the error and entering the correct information. The erroneous information will not be obliterated. All corrections will be initialed and dated.

Sampling and field analysis activities will be documented using the following:

Sample Bottle Identification Labels. Sampling personnel will attach an identification label to each sample bottle. At a minimum, the following information will be recorded on the label, as appropriate:

- Project name
- Project number
- Unique sample identification number and location
- [Project Number]-[Six digit sample collection date]-[Location]
- Quality assurance/quality control (QA/QC) samples shall be identified similarly using a unique sample number or designation

- Collection date/time (No time applied to QA/QC samples)
- Analysis constituent

Sampling Activity Logs. A log of sampling events will identify:

- Sampling date
- Separate times for collected samples and QA/QC samples recorded to the nearest minute
- Unique sample identification number and location
- Analysis constituent
- Names of sampling personnel
- Weather conditions (including precipitation amount)
- Field analysis results
- Other pertinent data

Chain of Custody (COC) forms. All samples to be analyzed by a laboratory will be accompanied by a COC form provided by the laboratory. Only the sample collectors will sign the COC form over to the lab. COC procedures will be strictly adhered to for QA/QC purposes.

Stormwater Quality Construction Inspection Checklists. When applicable, the Contractor's stormwater inspector will document on the checklist that samples for non-visible pollutants were taken during a rain event.

6.2.6 Sample Analysis

Samples will be analyzed for applicable constituents using the analytical methods identified in Table 6.2-2. The table will be updated once the onsite materials have been identified. For samples collected for field analysis, collection, analysis, and equipment calibration and maintenance will be in accordance with the field instrument manufacturer's specifications.

TABLE 6.2-2
Sample Collection, Preservation and Analysis for Monitoring Non-Visible Pollutants

Constituent	Analytical Method	Minimum Sample Volume	Sample Bottle	Sample Preservation	Reporting Limit	Maximum Holding Time
VOCs – Solvents	EPA 8260B	3 x 40 mL	VOA – glass	Store at 4º C, HCl to pH < 2	1 microgram/L	14 days
SVOCs	EPA 8270C	1 x 1 L	Glass – amber	Store at 4º C	10 micrograms/L	7 days
COD	EPA 410.4	1 x 250 mL	Glass – amber	Store at 4º C, H_2SO_4 to pH < 2	5 mg/L	28 days
pH	EPA 150.1	1 x 100 mL	Polypropylene	None	Unitless	Immediate

metals	EPA 6010B/7470A	1 x 250 mL	Polypropylene	Store at 4º C, HNO_3 to pH < 2	0.1 mg/L	6 months
Herbicides	EPA 8151A	1 x 1 L	Glass – amber	Store at 4º C	Check lab	7 days

The instrument(s) will be calibrated before each sampling and analysis event. Maintenance and calibration records will be maintained with the SWPPP.

6.2.7 Quality Assurance/Quality Control

For an initial verification of laboratory or field analysis, duplicate samples will be collected at a rate of 10 percent or 1 duplicate per sampling event. The duplicate sample will be collected, handled, and analyzed using the same protocols as primary samples. A duplicate sample will be collected at each location immediately after the primary sample has been collected. Duplicates will be collected where contamination is likely, not on the background sample. Duplicate samples will not influence any evaluations or conclusions; however, they will be used as a check on laboratory quality assurance.

6.2.8 Data Management and Reporting

A copy of all water quality analytical results and QA/QC data will be submitted to the Owner/Developer within 5 days of sampling (for field analyses) and within 30 days (for laboratory analyses).

Lab reports and COCs will be reviewed for consistency between lab methods, sample identifications, dates, and times for both primary samples and QA/QC samples. All data, including COC forms and Sampling Activity Logs, shall be kept with the SWPPP.

6.2.9 Data Evaluation

An evaluation of the water quality sample analytical results, including figures with sample locations, will be submitted to the Owner/Developer with the water quality analytical results and the QA/QC data.

Should the runoff/downgradient sample show an increased level of the tested analyte relative to the background sample, the BMPs, site conditions, and surrounding influences will be assessed to determine the probable cause for the increase. As determined by the site and data evaluation, appropriate BMPs will be repaired or modified to mitigate discharges of non-visual pollutant concentrations. Any revisions to the BMPs will be recorded as an amendment to the SWPPP.

6.2.10 Change of Conditions

Whenever SWPPP monitoring, pursuant to Section B of the General Permit, indicates a change in site conditions that might affect the appropriateness of sampling locations or introduce additional non-visible pollutants of concern, testing protocols will be revised accordingly. All such revisions will be recorded as amendments to the SWPPP.

SECTION 7

Non-Stormwater Management

7.1 General

Non-stormwater management at the construction sites mainly involves prevention of contamination in runoff. Non-stormwater discharges from the project site are not anticipated due to effective implementation of control practices.

7.2 Inventory for Pollution Prevention Plan

The following substances are expected to be present onsite during construction:

- Portland Concrete Cement and masonry products
- Paints
- Detergents
- Fuels
- Lubricants
- Lumber
- Solvents
- Asphalt products
- Adhesives

Contractors are required by state and federal law to have inventories of hazardous materials. If the use of other types of hazardous materials at the site becomes necessary, the SWPPP will be amended as needed.

7.3 Hazardous Materials Management Plan

A variety of chemicals will be stored and used during construction of the facility. Hazardous materials to be used during construction include unleaded gasoline, diesel fuel, oil, lubricants (i.e., motor oil, transmission fluid, and hydraulic fluid), solvents, adhesives, paint materials, and building materials such as asphalt, sealants, and concrete. There are no feasible alternatives to these materials for construction or operation of construction vehicles and equipment, or for painting and caulking buildings and equipment.

In general, construction contractors will use lubricating oils, solvents, and other hazardous materials during construction of the Highgrove Project. The contractor will be responsible for assuring that the use, storage and handling of these materials will comply with applicable federal, state, and local LORS, including licensing, personnel training, accumulation limits, reporting requirements, and recordkeeping.

All equipment will be maintained to prevent leaks and spills, and fueling will only be conducted within contained areas. Spill containment equipment will be available if it is

needed. Any contaminated soils resulting from spills will be dug up as quickly as possible, and then removed from the site for proper disposal.

7.4 Prevention of Non-Stormwater Discharges

There will be specific designated temporary waste storage areas onsite. These areas will be contained within earthen berms or an equivalent barrier measure. Non-hazardous construction wastes (trash and construction debris) will be collected and placed into commercial disposal containers as soon as possible.

BMPs that will be implemented to prevent non-stormwater discharges include:

- Monitor all vehicle and equipment fueling and maintenance activities; fuel offsite wherever possible (BMPs NS-9 and NS-10)
- Use secondary containment for hazardous material delivery and storage areas to prevent spills or leakage of liquid material from contaminating soil or soaking into the ground (BMP WM-1)
- Train employees on the proper use of materials such as fuel, oil, asphalt and concrete compounds, paints, solvents, etc. (BMP WM-2)
- Store all liquid wastes in covered containers (BMP WM-4)
- Regularly remove construction wastes (BMP WM-5)
- Educate employees, subcontractors, and suppliers on concrete waste management techniques (BMP WM-8)
- Use portable toilet facilities managed and regularly serviced by a licensed contractor (BMP WM-9)
- Keep water equipment in good working condition; do not use water to clean pavement (BMP NS-1)
- Use practices for conducting paving operations to minimize the transport of pollutants to the stormdrain system (BMP NS-3)
- Recognize and report illicit connections or discharges (BMP NS-6)
- Restrict vehicle and equipment washing to designated areas (BMP NS-8)
- Use proper procedures to minimize pollution of runoff during concrete curing and finishing (BMPs NS-12 and NS-14)

7.4.1 Good Housekeeping

The following good housekeeping practices will be followed on all construction sites during the construction project:

- An effort will be made to store only enough product required to do the job.
- All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers, and, if possible, under a roof or other enclosure.

- Products will be kept in their original containers with the original manufacturer's label.
- Substances will not be mixed with one another unless recommended by the manufacturer.
- Whenever possible, all of a product will be used before disposing of the container.
- Manufacturer and/or State and local recommendations for proper use and disposal will be followed.
- Storage areas including equipment storage will be inspected for visible signs of oil or other spillages.

7.4.2 Product Specific Practices

The following product-specific practices will be followed onsite:

- **Petroleum Products:** All onsite vehicles will be monitored for leaks and receive regular preventative maintenance to reduce the potential for leakage. Petroleum products will be stored in tightly sealed containers that are clearly labeled. Asphalt substances used onsite will be applied according to the manufacturers' recommendations.
- **Paints:** Containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm sewer system but will be disposed of properly according to manufacturers' instructions and State and local regulations.
- **Concrete:** Equipment used for concrete mixing and transport will not be allowed to wash out or discharge surplus concrete or drum wash water on the site except in areas specifically designated for rinse out as indicated in Section 3.2.3. Wash water will be contained in a temporary pit where waste concrete can harden for later removal. Fresh concrete washing will be avoided unless runoff can be drained to a bermed or level area, away from waterways and storm drain inlets.

7.4.3 Spill Prevention Practices

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup:

- Manufacturers' recommended methods for spill cleanup will be clearly posted and personnel will be made aware of the procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area onsite, and will include, but not limited to brooms, dustpans, mops, rags, gloves, goggles, absorbents (e.g., kitty litter, sand, sawdust), and plastic and metal trash containers specifically for this purpose.
- Spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from and contact with a hazardous substance.

- The Project Manager (or designee) will be the spill prevention and cleanup coordinator. The names of additional responsible spill personnel and authorized contractors will be posted in various areas.
- Spills of toxic or hazardous materials will be reported to the Project Supervisor (or designee) regardless of the size.
- Spills of hazardous materials that exceed their reportable quantities will be reported to all appropriate local, state and federal government agencies.

Contaminated soil or debris that cannot be recycled, reused or salvaged, will be collected and stored in securely lidded dumpsters rented from a licensed solid waste management company. The dumpsters will meet all local and State solid waste management regulations. Potentially hazardous wastes will be separated from known non-hazardous wastes. This includes the segregation of storage areas and proper labeling of containers. All waste will be removed from the site by licensed contractors in accordance with applicable regulatory requirements and disposed of at either local or regional approved facilities. No waste materials will be buried onsite. All personnel will be instructed regarding the correct procedures for waste disposal. Notices stating these procedures will be posted in various areas.

The Project Manager (or designee) will be responsible for investigating spills and determining whether the reportable quantity has been exceeded. Regulations defining the reportable quantity levels for oil and hazardous substances are found in 40 CFR Part 110, Part 117 or Part 302. Should a release occur during construction activities that exceeds the reportable quantity, the following steps should be taken:

- Notify Local Emergency Response Agency at 9-1-1
- Notify the National Response Center immediately at 800-424-8802
- Notify Governor's office of Emergency Services Warning Center at 805-852-7550

A written description of the release should be submitted to the USEPA Regional Office providing the date, circumstances of the release, and the preventative measures taken to prevent further releases.

7.4.4 Isolation of Potentially Hazardous Materials

A supply of drums will be available in the event of spills of known materials or if potentially hazardous materials are found during project construction. The contaminated material will be placed in the drums, sealed and placed in a storage area to await proper characterization and disposal. The sealed drums should be further placed in a lined roll-off container with a tarpaulin cover. In this case, the potentially hazardous materials are stored in a marked covered area that has secondary containment. In the event that a larger amount of material needs to be isolated, it will be placed directly into a lined roll-off container from a licensed hazardous waste transporter. The roll-off container will be placed out of the flow of construction traffic and equipment, in a bermed area to contain and isolate possible leaks and rainwater. In the unlikely event that even larger volumes of potentially hazardous material must be temporarily held awaiting disposition, a containment area will be constructed. Plastic sheeting will be laid on the ground prior to placement of the contaminated material and the material itself will be covered. A berm will surround the covered material to keep any rainwater from leaving the site.

SECTION 8

Waste Management and Disposal

All wastes (including waste oil and other equipment maintenance waste) from the Highgrove Project construction shall be disposed of in compliance with federal, state, and local laws, regulations, and ordinances. Specific waste management and disposal procedures have been addressed in previous sections of this plan (see Section 3.3.2).

SECTION 9

Annual Review and Certification

Annually, the Project Manager (or designee) will review performance under the SWPPP and certify that construction activities are in compliance with the requirements of the Storm Water General Permit and the SWPPP. This Certification shall be based upon knowledge of construction activities and the site inspections conducted in accordance with the General Permit. The certification must be completed by July 1 of each year, and maintained for at least 3 years. If necessary, amendments to the SWPPP will be prepared and submitted at this time.

SECTION 10

SWPPP Administration

The Project Manager (or designee) will be identified in this SWPPP as the qualified person(s) assigned responsibility to ensure full compliance with the permit and implementation of all elements of the SWPPP, including the preparation of the annual compliance evaluation and the elimination of all unauthorized discharges.

The following lists required as part of the SWPPP will be maintained by the Project Manager:

- List of authorized contractors who have signed certifications that they understand and will comply with the SWPPP will be maintained in Appendix E. Additional information including current and emergency telephone numbers, address, contractor's responsibilities, and the specific names of individuals responsible for implementation of the SWPPP will also be maintained.
- List the name and telephone number of the qualified person(s) who have been assigned responsibility for pre-storm, post-storm, and storm event inspections (Appendix F).
- List of amendments will be maintained from the date of the first amendment prepared to the date of the most recent amendment (Appendix H). The SWPPP and each amendment will be certified by the Project Manager (or designee).

SECTION 11

Contractors/Subcontractors

The prime construction contractor will be included in this SWPPP upon award of the construction contract. Portions of the work are likely to be subcontracted to various specialty contractors. All subcontractors will be required to comply with the requirements of this permit. A list of authorized contractors/subcontractors will be maintained in Appendix E.

SECTION 12

SWPPP Certification by Contractor

The contractor who is authorized to implement and amend this SWPPP will be required to sign and certify that the SWPPP is in conformance with the General Permit. The Contractor is designated as the responsible party for the overall stormwater management at the site. By signing the Certification (found in Appendix D), the Contractor agrees to the following:

> *I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel prepared the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for preparing the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

SECTION 13

SWPPP Certification by Preparer

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel prepared the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for preparing the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____ _____

Signed ***Position***

_____

Date

SECTION 14

Notice of Intent

A copy of a blank Notice of Intent (NOI) Form to obtain coverage under the State General Construction Activity Storm Water Permit is included in Appendix A. The Notice of Intent will be filed by the contractor prior to initiation of project construction as required.

SECTION 15

References

California Department of Conservation (CDC). 2005. Farmland Mapping and Monitoring Program, Soil Candidate Listing for Prime Farmland and Farmland of Statewide Importance for San Bernardino County. Updated August 23.

CDC. 2005a. Farmland Mapping and Monitoring Program, Soil Candidate Listing for Prime Farmland and Farmland of Statewide Importance for Riverside County. Updated August 23.

CDC. 2002. Farmland Mapping and Monitoring Program Maps for San Bernardino County and for Riverside County. Division of Land Resource Protection, Sacramento.

CDC. 1995. Farmland Mapping and Monitoring Program Soil Candidate Listing for Prime Farmland and Farmland of Statewide Importance for Riverside County. August 1.

City of Grand Terrace. 2001. Zoning Code (Title 18 of the Grand Terrace Municipal Code). August.

City of Grand Terrace. 1988. General Plan. December.

Federal Emergency Management Agency (FEMA). 1997. Flood Insurance Rate Map: County of San Bernardino (panel number 060270)/City of Grand Terrace (panel number 060737).

National Resource Conservation Service (NRCS) (formerly the Soil Conservation Service [SCS] of the U.S. Department of Agriculture). 2005. Official Soil Series Descriptions [Online WWW]. Available URL: "http://soils.usda.gov/technical/classification/osd/index.html" [Accessed January 16, 2055].

NRCS. 1980. Soil Survey of San Bernardino County, Southwestern Part, California. January.

NRCS. 1971. Soil Survey Western Riverside Area, California. November.

State of California Department of Transportation (Caltrans). 2003. *Caltrans Storm Water Quality Handbooks*.

Storm Water Quality Task Force. 1993. *California Stormwater Best Management Practices Handbooks.* Volume 2: Commercial/Industrial Handbook.

APPENDIX A

Notice of Intent

State Water Resources Control Board

NOTICE OF INTENT

TO COMPLY WITH THE TERMS OF THE
GENERAL PERMIT TO DISCHARGE STORM WATER
ASSOCIATED WITH CONSTRUCTION ACTIVITY (WQ ORDER No. 99-08-DWQ)

I. NOI STATUS (SEE INSTRUCTIONS)

MARK ONLY ONE ITEM 1. ☐ New Construction 2. ☐ Change of Information for WDID#

II. PROPERTY OWNER

Name	Contact Person		
Mailing Address	Title		
City	State	Zip	Phone

III. DEVELOPER/CONTRACTOR INFORMATION

Developer/Contractor	Contact Person		
Mailing Address	Title		
City	State	Zip	Phone

IV. CONSTRUCTION PROJECT INFORMATION

Site/Project Name	Site Contact Person		
Physical Address/Location	Latitude	Longitude	County
City (or nearest City)	Zip	Site Phone Number	Emergency Phone Number

A. Total size of construction site area: _____ Acres B. Total area to be disturbed: _____ Acres (% of total __)	C. Percent of site imperviousness (including rooftops): Before Construction: _____% After Construction: _____%	D. Tract Number(s) E. Mile Post Marker:

F. Is the construction site part of a larger common plan of development or sale? ☐ YES ☐ NO	G. Name of plan or development:
H. Construction commencement date: __/__/__ I. % of site to be mass graded: _____	J. Projected construction dates: Complete grading: _____ Complete project: _____

K. Type of Construction (Check all that apply):

1. ☐ Residential 2. ☐ Commercial 3 ☐ Industrial 4. ☐ Reconstruction 5. ☐ Transportation

6. ☐ Utility Description: _____ 7. ☐ Other (Please List): _____

V. BILLING INFORMATION

SEND BILL TO:			
☐ OWNER (as in II. above)	Name.	Contact Person	
☐ DEVELOPER (as in III. above)	Mailing Address	Phone/Fax	
☐ OTHER (enter information at right)	City	State	Zip

VI. REGULATORY STATUS

A. Has a local agency approved a required erosion/sediment control plan?..... ☐ YES ☐ NO

Does the erosion/sediment control plan address construction activities such as infrastructure and structures**?**..... ☐ YES ☐ NO

Name of local agency: _____ Phone: _____

B. Is this project or any part thereof, subject to conditions imposed under a CWA Section 404 permit of 401 Water Quality Certification?..... ☐ YES ☐ NO

If yes, provide details: _____

VII. RECEIVING WATER INFORMATION

A. Does the storm water runoff from the construction site discharge to (Check all that apply):

1. ☐ **Indirectly to waters of the U.S.**

2. ☐ **Storm drain system - Enter owner's name:**

3. ☐ **Directly to waters of U.S. (e.g. , river, lake, creek, stream, bay, ocean, etc.)**

B. Name of receiving water: (river, lake, creek, stream, bay, ocean): _____

VIII. IMPLEMENTATION OF NPDES PERMIT REQUIREMENTS

A. STORM WATER POLLUTION PREVENTION PLAN (SWPPP) (check one)

☐ A SWPPP has been prepared for this facility and is available for review: Date Prepared: ____/____/____ Date Amended: ____/____/____

☐ A SWPPP will be prepared and ready for review by (enter date): ____/____/____

☐ A tentative schedule has been included in the SWPPP for activities such as grading, street construction, home construction, etc.

B. MONITORING PROGRAM

☐ A monitoring and maintenance schedule has been developed that includes inspection of the construction BMPs before anticipated storm events and after actual storm events and is available for review.

If checked above: A qualified person has been assigned responsibility for pre-storm and post-storm BMP inspections to identify effectiveness and necessary repairs or design changes..... ☐ YES ☐ NO

Name: Phone:

C. PERMIT COMPLIANCE RESPONSIBILITY

A qualified person has been assigned responsibility to ensure full compliance with the Permit, and to implement all elements of the Storm Water Pollution Prevention Plan including:

1. Preparing an annual compliance evaluation..... ☐ YES ☐ NO

Name: Phone:

2. Eliminating all unauthorized discharges..... ☐ YES ☐ NO

IX. VICINITY MAP AND FEE (must show site location in relation to nearest named streets, intersections, etc.)

Have you included a vicinity map with this submittal? ..... ☐ YES ☐ NO

Have you included payment of the annual fee with this submittal? ..... ☐ YES ☐ NO

X. CERTIFICATIONS

"I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. In addition, I certify that the provisions of the permit, including the development and implementation of a Storm Water Pollution Prevention Plan and a Monitoring Program Plan will be complied with."

Printed Name: _____

Signature: _____ **Date:** _____

Title:

APPENDIX B

Stormwater Calculations

AES HIGHGROVE ENERGY FACILITY
CITY OF GRAND TERRACE, CA

STORM DRAIN CALCULATIONS

Project Number 322752

CH2MHILL

Preliminary
(to be verified in final design)

AES Highgrove Energy Facility, City of Grand Terrace, CA

Storm Drainage, Rational Method

Design Criteria:

Rainfall Intensity:	100 yr Storm Event
Tc = 5 min	(Based from Nomograph for Kirpich Equation, Civil Engineering, Vol. 10, No. 6, June 1940, p.362)
i = 5.16 in/hr	(Based on the IDF curve for 100 year storm, from NOAA Atlas 14)
A1 = 1.875 Acres A2 = 3.953 Acres A3 = 0.721 Acres	(See Attached Drainage Study Plan)

$\sum Q = \sum CiA$

Units:

Q = CFS

C = 0.69 (Recommended Rational Runoff Coefficient, San Bernardino County Hydrology Manual)

i = in/hr

A = Acres

Capacity Calculation for Detention Basin

A1 = 1.875 Acres
A2 = 3.953 Acres
A3 = 0.721 Acres

(See Attached Drainage Study Plan)

R = 4.310 in

(Based on the IDF curve, from NOAA Atlas 14 for 10 year-48 hour storm event per Caltrans Standard Specifications, Section 77, July 1992)

$\sum V = \sum CAR/12$

Caltrans Standard Specifications, Section 77, July 1992

Units:

V = Acre-Feet

C = 0.69 (Recommended Rational Runoff Coefficient, San Bernardino County Hydrology Manual)

A = Acres

R = Rainfall Value in inches

CH2MHILL

Preliminary
(to be verified in final design)

AES HIGHGROVE ENERGY FACILITY
STORM DRAINAGE RUNOFF (POST DEVELOPMENT)

DRAINAGE AREA	Rainfall (inches)	TYPE OF SURFACE	AREA (FT^2)	AREA (ACRES)	COEFFICIENT ©	I(100yr) (in/hr)	Q (100yr) (cfs)	Q' (100yr) (cfs) LINE TOTAL	BRANCH TOTAL	Q CUM (cfs)	Volume (acre-feet)
A1	4.310	Asphalt Paving	81671.21	1.875	0.69	5.16	6.73				0.465
A2	4.310	Asphalt Paving	172187.21	3.953	0.69	5.16	14.19				0.980
A3	4.310	Asphalt Paving	31403.88	0.721	0.69	5.16	2.59	23.51	23.51	23.51	0.179
										SUM=	**1.623**

POINT PRECIPITATION FREQUENCY ESTIMATES FROM NOAA ATLAS 14

California 34.03 N 117.32 W 1062 feet

from "Precipitation-Frequency Atlas of the United States" NOAA Atlas 14, Volume 1, Version 3
G.M. Bonnin, D. Todd, B. Lin, T. Parzybok, M.Yekta, and D. Riley
NOAA, National Weather Service, Silver Spring, Maryland, 2003

Extracted: Thu May 4 2006

Confidence Limits | Seasonality | Location Maps | Other Info. | GIS data | Maps | Help | D

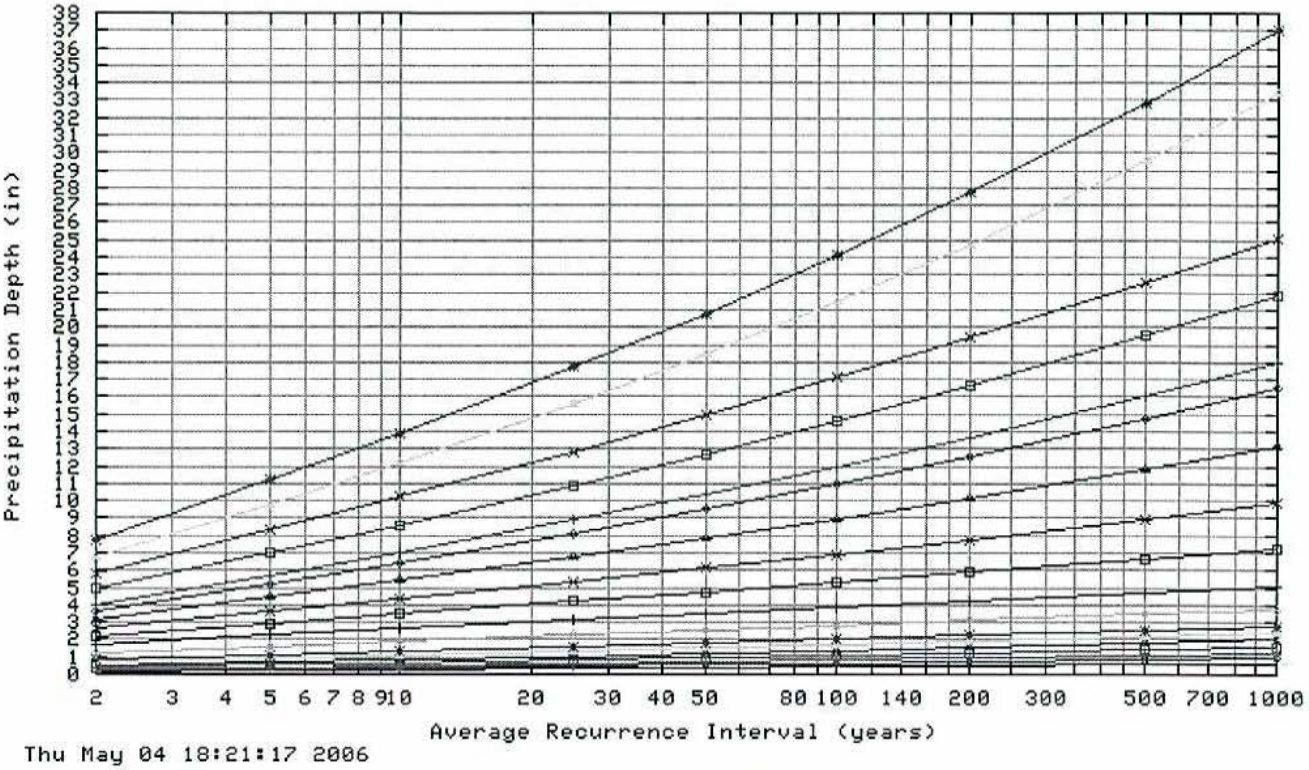
Precipitation Frequency Estimates (inches)

ARI* (years)	5 min	10 min	15 min	30 min	60 min	120 min	3 hr	6 hr	12 hr	24 hr	48 hr	4 day	7 day	10 day	20 day	30 day	45 day	60 day
2	0.16	0.25	0.31	0.42	0.52	0.72	0.88	1.26	1.73	2.21	2.61	3.15	3.64	4.03	4.91	5.82	6.73	7.74
5	0.22	0.33	0.41	0.55	0.68	0.93	1.12	1.61	2.24	2.94	3.58	4.43	5.19	5.72	6.99	8.31	9.77	11.17
10	0.26	0.39	0.49	0.66	0.81	1.09	1.32	1.89	2.62	3.48	4.31	5.41	6.40	7.04	8.60	10.21	12.18	13.87
25	0.32	0.48	0.60	0.81	1.00	1.32	1.59	2.25	3.13	4.21	5.32	6.75	8.10	8.89	10.86	12.83	15.62	17.70
50	0.37	0.56	0.70	0.94	1.16	1.51	1.81	2.52	3.50	4.76	6.11	7.83	9.47	10.38	12.68	14.91	18.44	20.81
100	0.43	0.65	0.80	1.08	1.34	1.71	2.03	2.81	3.88	5.33	6.93	8.95	10.94	11.96	14.60	17.09	21.49	24.16
200	0.48	0.74	0.91	1.23	1.52	1.92	2.26	3.09	4.26	5.89	7.78	10.13	12.50	13.64	16.63	19.37	24.78	27.74
500	0.57	0.86	1.07	1.44	1.79	2.21	2.58	3.48	4.75	6.65	8.94	11.78	14.71	16.02	19.50	22.54	29.51	32.85
1000	0.64	0.97	1.20	1.62	2.00	2.44	2.83	3.77	5.13	7.22	9.86	13.09	16.50	17.94	21.80	25.07	33.42	37.04

Text version of table

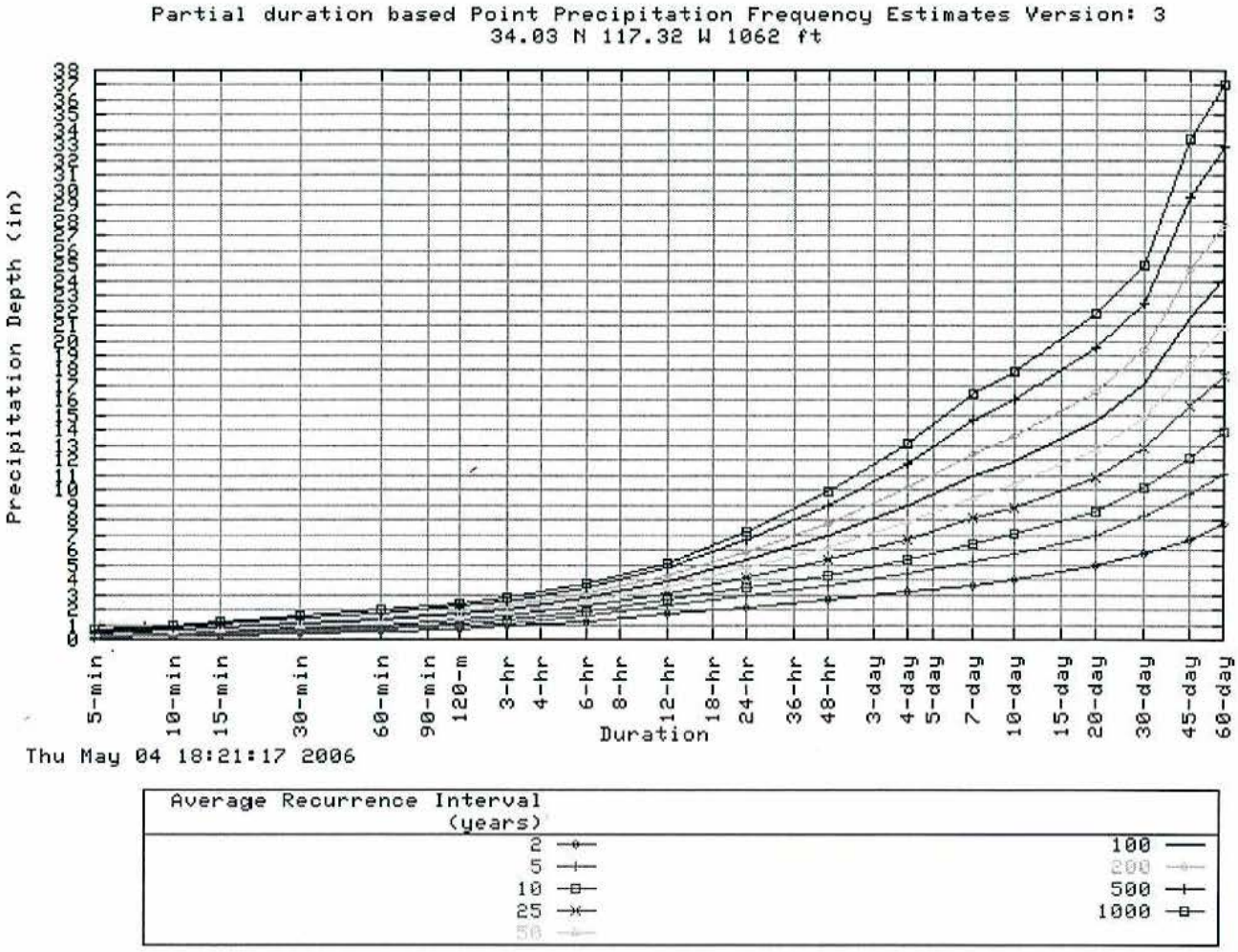
* These precipitation frequency estimates are based on a partial duration series. **ARI** is the Average Recurrence Interval. Please refer to the documentation for more information. NOTE: Formatting forces estimates near zero to appear as zero.

Partial duration based Point Precipitation Frequency Estimates Version: 3
34.03 N 117.32 W 1062 ft



Thu May 04 18:21:17 2006

Duration			
5-min	120-min	48-hr	30-day
10-min	3-hr	4-day	45-day
15-min	6-hr	7-day	60-day
30-min	12-hr	10-day	
60-min	24-hr	20-day	



Confidence Limits -

* Upper bound of the 90% confidence interval Precipitation Frequency Estimates (inches)																		
ARI** (years)	5 min	10 min	15 min	30 min	60 min	120 min	3 hr	6 hr	12 hr	24 hr	48 hr	4 day	7 day	10 day	20 day	30 day	45 day	60 day
2	0.19	0.29	0.36	0.48	0.59	0.81	1.00	1.40	1.92	2.48	2.93	3.51	4.06	4.50	5.49	6.51	7.63	8.75
5	0.25	0.38	0.47	0.63	0.78	1.05	1.27	1.79	2.49	3.30	4.01	4.92	5.78	6.38	7.82	9.28	11.05	12.62
10	0.29	0.45	0.56	0.75	0.93	1.23	1.50	2.08	2.91	3.90	4.83	6.00	7.12	7.84	9.61	11.39	13.75	15.63
25	0.36	0.55	0.69	0.92	1.14	1.49	1.80	2.49	3.46	4.71	5.95	7.49	8.98	9.87	12.10	14.27	17.55	19.87
50	0.42	0.64	0.79	1.07	1.32	1.70	2.04	2.79	3.88	5.32	6.82	8.67	10.51	11.51	14.10	16.58	20.69	23.34
100	0.48	0.73	0.91	1.23	1.52	1.92	2.29	3.10	4.29	5.94	7.74	9.92	12.13	13.27	16.22	18.99	24.09	27.06
200	0.55	0.83	1.03	1.39	1.72	2.15	2.55	3.42	4.71	6.56	8.69	11.24	13.87	15.12	18.46	21.52	27.73	31.06
500	0.64	0.98	1.21	1.63	2.02	2.48	2.90	3.84	5.26	7.40	9.99	13.07	16.33	17.76	21.65	25.03	33.07	36.80
1000	0.72	1.10	1.36	1.83	2.26	2.74	3.19	4.17	5.67	8.04	11.03	14.54	18.35	19.93	24.25	27.89	37.48	41.50

* The upper bound of the confidence interval at 90% confidence level is the value which 5% of the simulated quantile values for a given frequency are greater than.
** These precipitation frequency estimates are based on a partial duration series. ARI is the Average Recurrence Interval.
Please refer to the documentation for more information. NOTE: Formatting prevents estimates near zero to appear as zero.

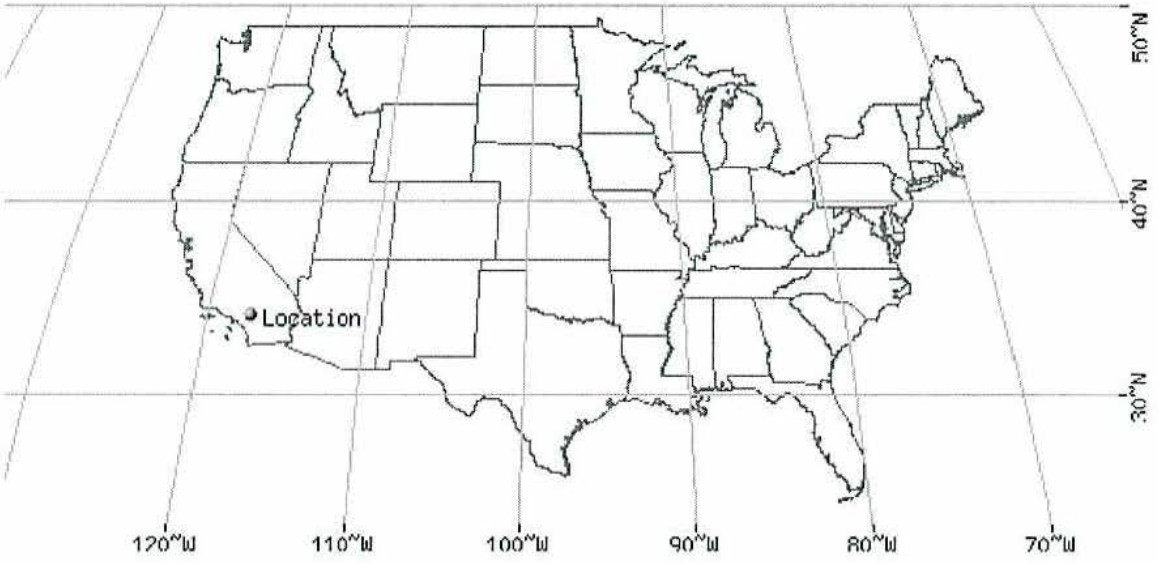
* Lower bound of the 90% confidence interval Precipitation Frequency Estimates (inches)																		

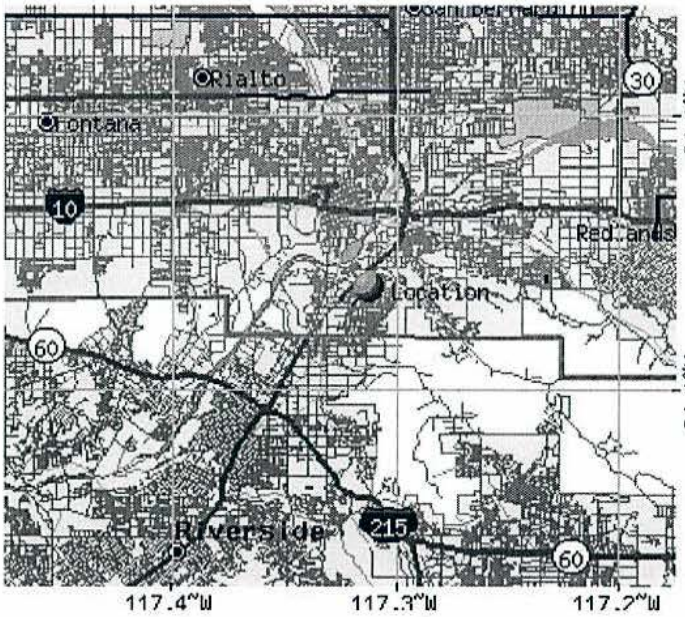
ARI** (years)	5 min	10 min	15 min	30 min	60 min	120 min	3 hr	6 hr	12 hr	24 hr	48 hr	4 day	7 day	10 day	20 day	30 day	45 day	60 day
2	0.15	0.22	0.28	0.37	0.46	0.64	0.79	1.14	1.56	1.97	2.32	2.85	3.27	3.62	4.41	5.21	6.00	6.93
5	0.19	0.29	0.36	0.49	0.60	0.83	1.00	1.46	2.01	2.62	3.19	4.00	4.66	5.14	6.27	7.44	8.68	9.98
10	0.23	0.35	0.43	0.58	0.72	0.97	1.18	1.69	2.35	3.10	3.82	4.86	5.72	6.31	7.69	9.11	10.77	12.34
25	0.28	0.43	0.53	0.71	0.88	1.17	1.41	2.01	2.80	3.73	4.70	6.05	7.19	7.92	9.66	11.40	13.73	15.63
50	0.32	0.49	0.61	0.82	1.01	1.33	1.59	2.25	3.12	4.20	5.37	6.98	8.36	9.21	11.21	13.17	16.11	18.27
100	0.37	0.56	0.69	0.93	1.15	1.50	1.78	2.50	3.45	4.68	6.05	7.94	9.60	10.55	12.84	15.02	18.64	21.08
200	0.41	0.63	0.78	1.05	1.30	1.67	1.97	2.74	3.77	5.16	6.75	8.93	10.88	11.94	14.52	16.91	21.32	24.02
500	0.48	0.73	0.90	1.21	1.50	1.91	2.23	3.06	4.19	5.78	7.70	10.27	12.67	13.88	16.84	19.50	25.11	28.08
1000	0.53	0.81	1.00	1.35	1.67	2.09	2.42	3.30	4.49	6.25	8.43	11.32	14.10	15.41	18.66	21.53	28.14	31.39

* The lower bound of the confidence interval at 90% confidence level is the value which 5% of the simulated quantile values for a given frequency are **less** than.
** These precipitation frequency estimates are based on a partial duration maxima series. **ARI** is the Average Recurrence Interval.

Please refer to the documentation for more information. NOTE: Formatting prevents estimates near zero to appear as zero.

Maps -





These maps were produced using a direct map request from the U.S. Census Bureau Mapping and Cartographic Resources Tiger Map Server.

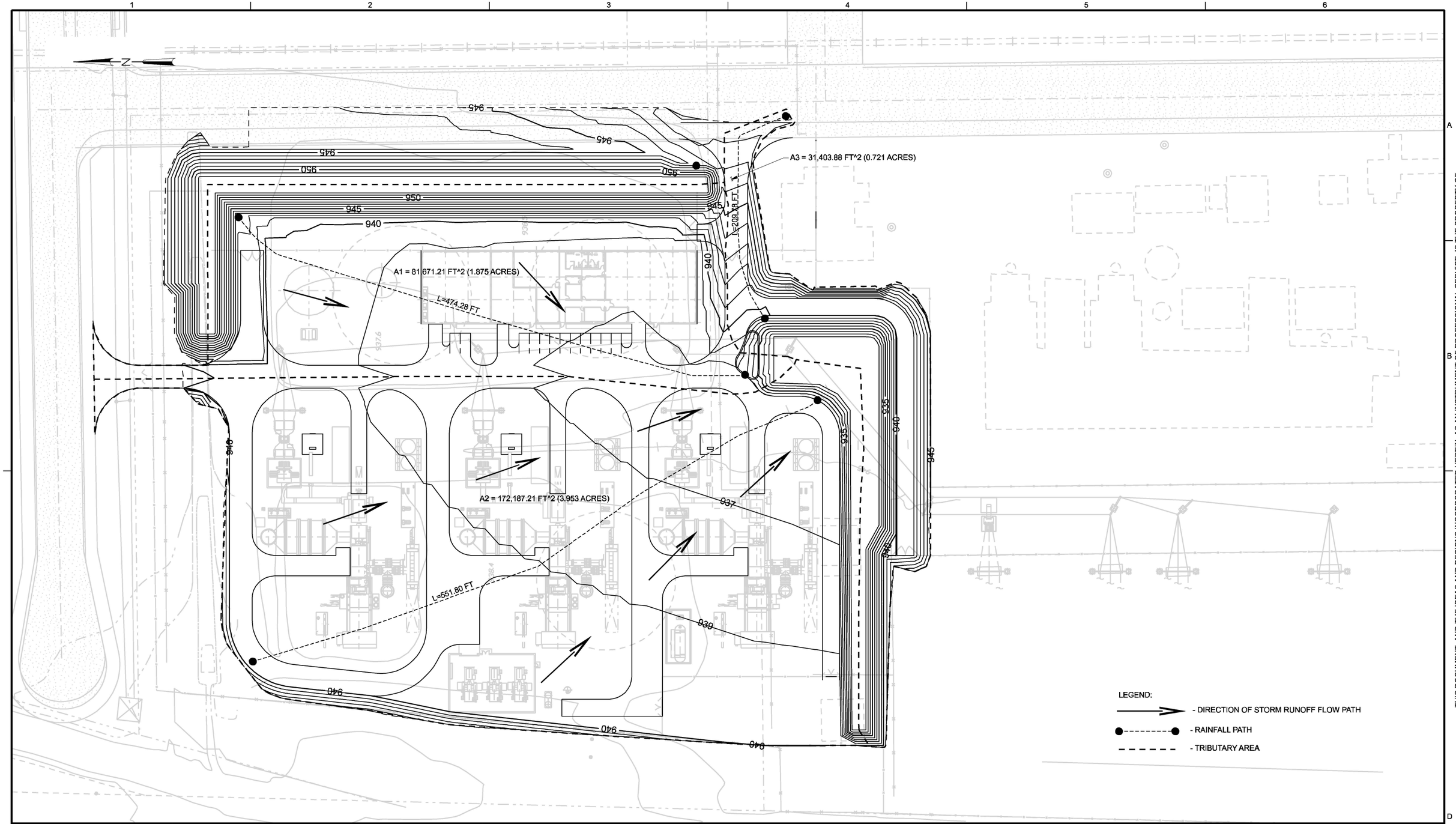
Please read disclaimer for more information.

LEGEND

- State
- County
- Indian Resv
- Lake/Pond/Ocean
- Street
- Expressway
- Highway
- Connector
- Stream
- Military Area
- National Park
- Other Park
- City
- County

Scale 1:228583 (0 2 4 6 8 mi; 0 2 4 6 8 10 km)

*average--true scale depends on monitor resolution



NO.	DATE	REVISION	BY	CHK
P1	mm/dd/yy	Preliminary For Internal Review	XXX	YYY

REVISION APPROVAL		REV DATE	
DISCIPLINE	REVIEWED	DISCIPLINE	REVIEWED
CIVIL		ELECTRICAL	
STRUCTURAL		INST & CONTROL	
MECHANICAL		ARCHITECTURAL	
PROCESS		ENVIRONMENTAL	
PIPING		GEN. ARRANG.	

PRINT DISTRIBUTION	
DATE	
STATUS	
REV.	
CLIENT	
FIELD	
INTRA CO.	

STATUS				
ISSUED	REV	DATE	SDE	PEM
PRELIMINARY				
FOR REVIEW AND APPROVAL				
APPROVED FOR CONSTRUCTION				
REVISED & APPROVED FOR CONSTRUCTION				

RESPONSIBLE ENGINEER:
PE #

SCALE 1"=40'

AES
HIGHGROVE ENERGY FACILITY

PROJ NO. 322752

CIVIL

DRAINAGE STUDY
FIGURE 8.14-5

CH2MHILL

DWG. NO.

REV. P1

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

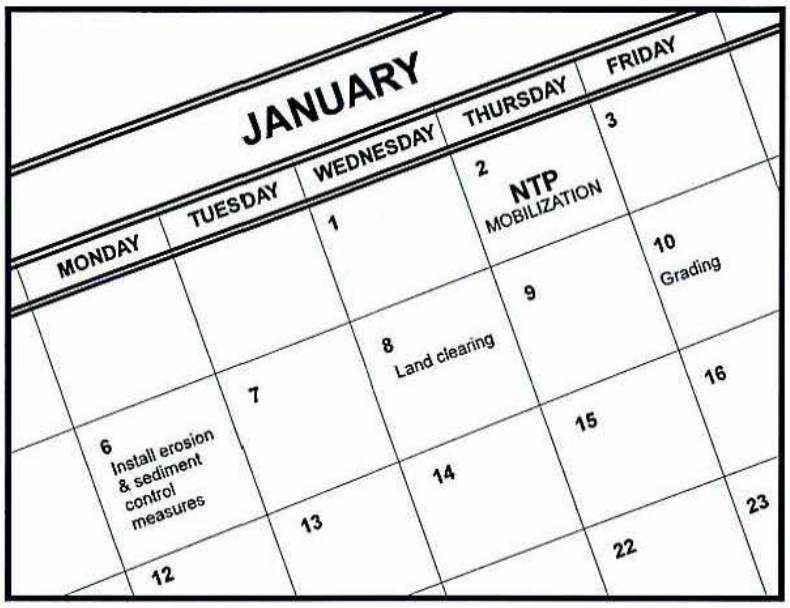
FILENAME: PLOT DATE: PLOT TIME:

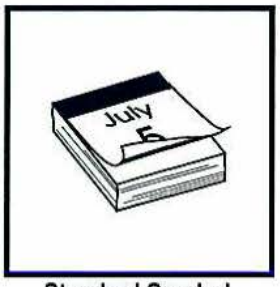
APPENDIX C

Detailed Description of CALTRANS BMPs

Scheduling

SS-1





Standard Symbol

BMP Objectives

- Soil Stabilization
- Sediment Control
- Tracking Control
- Wind Erosion Control
- Non-Storm Water Management
- Materials and Waste Management

Definition and Purpose

This best management practice (BMP) involves developing, for every project, a schedule that includes sequencing of construction activities with the implementation of construction site BMPs such as temporary soil stabilization (erosion control) and temporary sediment controls measures. The purpose is to reduce the amount and duration of soil exposed to erosion by wind, rain, runoff and vehicle tracking, and to perform the construction activities and control practices in accordance with the planned schedule.

Appropriate Applications

Construction sequencing shall be scheduled to minimize land disturbance for all projects during the rainy and non-rainy season. Appropriate BMPs shall be implemented during both rainy and non-rainy seasons.

Limitations

None identified.

Standards and Specifications

- Developing a schedule and planning the project are the very first steps in an effective storm water program. The schedule shall clearly show how the rainy season relates to soil-disturbing and re-stabilization activities. The construction schedule shall be incorporated into the SWPPP or WPCP.
- The schedule shall include detail on the rainy season implementation and deployment of:
  - Temporary soil stabilization BMPs.
  - Temporary sediment control BMPs.
  - Tracking control BMPs.
  - Wind erosion control BMPs.

- Non-storm water BMPs.
- Waste management and materials pollution control BMPs.

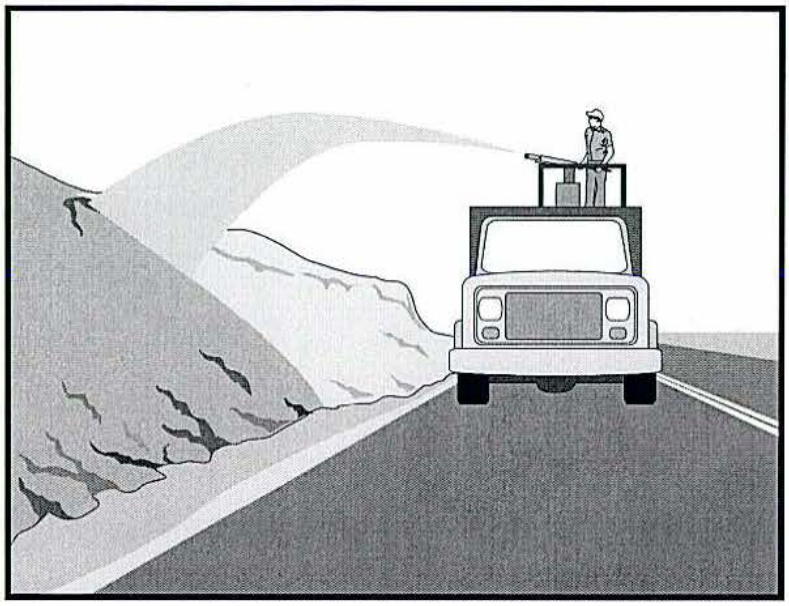
- Schedule shall also include dates for significant long-term operations or activities that may have planned non-storm water discharges such as dewatering, sawcutting, grinding, drilling, boring, crushing, blasting, painting, hydro-demolition, mortar mixing, bridge cleaning, etc.
- Schedule work to minimize soil disturbing activities during the rainy season.
- Develop the sequencing and timetable for the start and completion of each item such as site clearing and grubbing, grading, excavation, paving, pouring foundations, installing utilities, etc., to minimize the active construction area during the rainy season.
- Schedule major grading operations for the non-rainy season when practical.
- Stabilize non-active areas within 14 days from the cessation of soil-disturbing activities or one day prior to the onset of precipitation, whichever occurs first.
- Monitor the weather forecast for rainfall.
- When rainfall is predicted, adjust the construction schedule to allow the implementation of soil stabilization and sediment controls and sediment treatment controls on all disturbed areas prior to the onset of rain.
- Be prepared year-round to deploy soil stabilization and sediment control practices as required by Section 2 of this Manual. Erosion may be caused during dry seasons by unseasonal rainfall, wind, and vehicle tracking. Keep the site stabilized year-round, and retain and maintain rainy season sediment trapping devices in operational condition.
- Sequence trenching activities so that most open portions are closed before new trenching begins.
- Incorporate staged seeding and re-vegetation of graded slopes as work progresses.
- Consider scheduling when establishing permanent vegetation (appropriate planting time for specified vegetation).
- Apply permanent erosion control to areas deemed substantially complete during the project's defined seeding window.

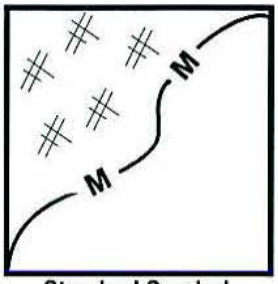
Maintenance and Inspection

- Verify that work is progressing in accordance with the schedule. If progress deviates, take corrective actions.
- Amend the schedule when changes are warranted or when directed by the Resident Engineer (RE).
- The Special Provisions require annual submittal of a rainy season implementation schedule. Amend the schedule prior to the rainy season to show updated information on the deployment and implementation of construction site BMPs.

Hydraulic Mulch

SS-3





Standard Symbol

BMP Objectives

- ● Soil Stabilization
- ○ Sediment Control
- ○ Tracking Control
- ● Wind Erosion Control
- ○ Non-Storm Water Management
- ○ Materials and Waste Management

Definition and Purpose

Hydraulic mulch consists of applying a mixture of shredded wood fiber or a hydraulic matrix and a stabilizing emulsion or tackifier with hydroseeding equipment, which temporarily protects exposed soil from erosion by raindrop impact or wind. This is one of five temporary soil stabilization alternatives to consider.

Appropriate Applications

- Hydraulic mulch is applied to disturbed areas requiring temporary protection until permanent vegetation is established or disturbed areas that must re-disturbed following an extended period of inactivity.

Limitations

- Wood fiber hydraulic mulches are generally short-lived (only last a part of a growing season) and need 24 hours to dry before rainfall occurs to be effective.
- Paper mulches are not permitted.
- Avoid use in areas where the mulch would be incompatible with immediate future earthwork activities and would have to be removed.

Standards and Specifications

- Prior to application, roughen embankment and fill areas by rolling with a crimping or punching type roller or by track walking. Track walking shall only be used where other methods are impractical.
- Hydraulic matrices require 24 hours to dry before rainfall occurs to be effective unless approved by the Resident Engineer.
- Avoid mulch over-spray onto the traveled way, sidewalks, lined drainage channels, and existing vegetation.
- Selection of hydraulic mulches by the Contractor must be approved by the Resident Engineer (RE) or Construction Storm Water Coordinator.

- Materials for wood fiber based hydraulic mulches and hydraulic matrices shall conform to Standard Specifications Section 20-2.07.

- Hydraulic Mulch

- Wood fiber mulch is a component of hydraulic applications. It is typically applied at the rate of 2,250 to 4,500 kilograms per hectare (kg/ha) (2,000 to 4,000 lb/ac) with 0-5% by weight of a stabilizing emulsion or tackifier (e.g., guar, psyllium, acrylic copolymer) and applied as a slurry. This type of mulch is manufactured from wood or wood waste from lumber mills or from urban sources. Specifications for wood fiber mulch can be found in Standard Specifications Sections 20-2.07 and 20-2.08.

- Hydraulic matrix is a combination of wood fiber mulch and a tackifier applied as a slurry. It is typically applied at the rate of 2,250 to 4,500 kilograms per hectare (kg/Ha) with 5-10% by weight of a stabilizing emulsion or tackifier (e.g., guar, psyllium, acrylic copolymer).

- Hydraulic Matrix

- Hydraulic matrix is a combination of wood fiber mulch and tackifier applied as a slurry. It is typically applied at the rate of 2,250 to 4,500 kg/ha with 5-10% by weight of a stabilizing emulsion or tackifier (e.g., guar, psyllium, acrylic copolymer).

- Bonded Fiber Matrix

- Bonded fiber matrix (BFM) is a hydraulically-applied system of fibers and adhesives that upon drying forms an erosion-resistant blanket that promotes vegetation, and prevents soil erosion. BFMs are typically applied at rates from 3,400 kg/ha to 4,500 kg/ha based on the manufacturer's recommendation. The biodegradable BFM is composed of materials that are 100% biodegradable. The binder in the BFM should also be biodegradable and should not dissolve or disperse upon re-wetting. Typically, biodegradable BFMs should not be applied immediately before, during or immediately after rainfall if the soil is saturated. Depending on the product, BFMs require 12 to 24 hours to dry to become effective.

Maintenance and Inspections

- Maintain an unbroken, temporary mulched ground cover throughout the period of construction when the soils are not being reworked. Inspect before expected rain storms and repair any damaged ground cover and re-mulch exposed areas of bare soil.

- After any rainfall event, the Contractor is responsible for maintaining all slopes to prevent erosion.