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BULLETIN No. 130-66

HYDROLOGIC DATA: 1966

Volume V: SOUTHERN CALIFORNIA

Appendix D: SURFACE WATER QUALITY
Appendix E: GROUND WATER QUALITY

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ERRATA SHEET

Bulletin No 130–66 "Hydrologic Data 1966 Volume V. Southern California. Appendix D Surface Water Quality Appendix E. Ground Water Quality."

ease note the following corrections to Table E–1.

1 Page 73

SANTA MARIA–CUYAMA HYDRO UNIT T1200 should read SAN LUIS OBISPO HYDRO UNIT T1000

2. Page 97

LA–SAN GABRIEL RIVER HYDRO UNIT U0500 should read SANTA CLARA–CALLEGUAS HYDRO UNIT U0300

3 Page 131

(a) LA–SAN GABRIEL RIVER HYDRO UNIT U0500 should read OWENS HYDRO UNIT W0300

(b) YORBA LINDA HYDRO SUBAREA U05F3 should read LONG HYDRO SUBUNIT W03A0

(c) Delete KELSO LANDIS HYDRO SUBUNIT W25B0

(d) Move data for well 6N/3W–9D1 S to page 137

4. Page 133

(a) MOJAVE HYDRO UNIT W2800 should read ANTELOPE HYDRO UNIT W2600

(b) Insert NEENACH HYDRO SUBAREA W26A4 just above well 9N/18W–36B1 S

5 Page 147

Delete SKY VALLEY HYDRO SUBAREA X19D4

6 Page 154

(a) MIDDLE SANTA ANA RIV HYDRO SUBUNIT Y01B0 should read LOWER SANTA ANA RIV HYDRO SUBUNIT Y

(b) CHINO HYDRO SUBAREA Y01B1 should read EAST COASTAL PLAIN HYDRO SUBAREA Y01A1

7 Page 175, 176, 177

RECHE HYDRO SUBAREA Y01D4 should read COLTON–RIALTO HYDRO SUBAREA Y01D4

8 Page 177

Insert RECHE HYDRO SUBAREA Y01D5 just below well 1S/4W–29H3 S (5–20–66)

9 Page 178

Insert RECHE HYDRO SUBAREA Y01D5 just above well 2S/4W–12M1 S

STATE OF CALIFORNIA

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MAY 1968

RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI
Director
Department of Water Resources

BULLETIN No. 130
HYDROLOGIC DATA
AREAL COVERAGE OF VOLUMES
Each Volume Contains
Appendix A: Climatological Data
Appendix B: Surface Water Measurements
Appendix C: Ground Water Measurements
Appendix D: Surface Water Quality
Appendix E: Ground Water Quality
This Volume
VOLUME I
NORTH COASTAL
AREA
VOLUME II
NORTHEASTERN
CALIFORNIA
VOLUME III
CENTRAL
COASTAL
AREA
VOLUME IV
SAN JOAQUIN
VALLEY
VOLUME V
SOUTHERN CALIFORNIA
This Area Reported in
Volume III & V
OREGON
NEVADA
ARIZONA
MEXICO
PACIFIC OCEAN
DEL NORTE
SISKIYOU
MODOC
HUMBOLDT
TRINITY
SHASTA
LASSEN
TEHAMA
PLUMAS
MENDOCINO
GLENN
BUTTE
SIERRA
COLUSA
SUTTER
YUBA
NEVADA
LAKE
PLACER
EL DORADO
YOLO
ALPINE
SONOMA
NAPA
SOLANO
SACRAMENTO
AMADOR
MARIN
CONTRA COSTA
SAN JOAQUIN
CALAVERAS
TUOLUMNE
MONO
SAN FRANCISCO
ALAMEDA
STANISLAUS
MARIPOSA
SAN MATEO
SANTA CLARA
MERCED
MADERA
SANTA CRUZ
SAN BENITO
FRESNO
INYO
MONTEREY
TULARE
KINGS
SAN LUIS OBISPO
KERN
SAN BERNARDINO
SANTA BARBARA
VENTURA
LOS ANGELES
RIVERSIDE
ORANGE
SAN DIEGO
IMPERIAL

FOREWORD

The data collection programs of the Department of Water Resources have been designed to supplement the activities of other agencies to satisfy specific needs of the State. Bulletin No. 130-66 presents useful, comprehensive, accurate, and timely hydrologic data which are prerequisite for effective planning, design, construction, and operation of water facilities.

The Bulletin No. 130 series is published annually in five volumes. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map to the left.

William R. Gianelli

William R. Gianelli, Director
Department of Water Resources
State of California
April 1, 1968

METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT	
Inch (in)	2.54	Centimeters
Foot (ft)	0.3048	Meter
Mile (mi)	1.609	Kilometers
Acre	0.405	Hectare
Square mile (sq. mi.)	2.590	Square kilometer
U. S. gallon (gal)	3.785	Liters
Acre-foot (acre-ft)	1,233.5	Cubic meters
U. S. gallon per minute (gpm)	0.0631	Liters per second
Cubic feet per second (cfs)	1.7	Cubic meters per minute
1 part per million (ppm)	1 milligram per liter (mg/1)	
1 part per billion (ppb)	1 microgram per liter (ug/1)	
1 part per trillion (ppt)	1 nanogram per liter (ng/1)	
1 equivalent per million (epm)	1 milliequivalent per liter (me/1)	

TABLE OF CONTENTS

	Page
AREAL COVERAGE OF VOLUMES	ii
FOREWORD	iii
METRIC CONVERSION TABLE	iv
ORGANIZATION	vii
ACKNOWLEDGMENTS	ix
ABSTRACT	x
APPENDIXES	
Appendix A: CLIMATOLOGICAL DATA)	
Appendix B: SURFACE WATER MEASUREMENTS) (Published Separately)	
Appendix C: GROUND WATER MEASUREMENTS)	
Appendix D: SURFACE WATER QUALITY	1

TABLES

Table Number		
D-1	Sampling Station Data and Index	4
D-2	Mineral Analyses of Surface Water	6
D-3	Trace Element Analyses of Surface Water	32
D-4	Miscellaneous Constituents in Surface Water	35

FIGURES

Figure Number		
D-1	Location of Surface Water Sampling Stations Central Coastal Drainage Province (T)	47
D-2	Los Angeles Drainage Province (U)	49
D-3	Lahontan Drainage Province (W)	51
D-4	Colorado River Basin Drainage Province (X)	53
D-5	Santa Ana Drainage Province (Y)	55
D-6	San Diego Drainage Province (Z)	57

Page

Appendix E: GROUND WATER QUALITY 59

TABLES

Table Number

E-1 Mineral Analyses of Ground Water 64
E-2 Trace Element Analyses of Ground Water 190

FIGURES

Figure Number

E-1 Names and Areal Code Numbers of Hydrologic Areas
Central Coastal Drainage Province (T) 193
E-2 Los Angeles Drainage Province (U) 195
E-3 Lahontan Drainage Province (W). 197
E-4 Colorado River Basin Drainage Province (X) 199
E-5 Santa Ana Drainage Province (Y) 201
E-6 San Diego Drainage Province (Z) 203

State of California
The Resources Agency
DEPARTMENT OF WATER RESOURCES

RONALD REAGAN, Governor
WILLIAM R. GIANELLI, Director, Department of Water Resources
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Orange County Water District

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San Bernardino County Flood Control District

San Luis Obispo County Flood Control and Water
Conservation District

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California

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Ventura County Flood Control District

ABSTRACT

Appendixes D and E to Volume V, Bulletin No. 130-66, contain tables showing data on surface and ground water quality in Southern California for the 1965-66 water year. Figures show location of surface water sampling stations and ground water basins.

Appendix D

SURFACE WATER QUALITY

Appendix D

SURFACE WATER QUALITY

This appendix presents surface water quality data collected during the period from October 1, 1965, through September 30, 1966. The data were collected from 50 stream and lake sampling stations in Southern California in cooperation with other state, local, and federal agencies.

These stations are listed in Table D-1 and the locations of the stations are shown in Figures D-1 through D-6. Water quality sampling stations have been identified by a two-digit decimal number appended to numbers assigned according to the Department of Water Resources, "Index of Stream Gaging Stations In and Adjacent to California, 1966". Station numbers previously used by the Department are shown in parentheses following the sampling station name.

At the time of field sampling, dissolved oxygen, pH, temperature, and estimated flow measurements are made and gage height and time are noted. Comments on local conditions are noted in field books which are available in the files of the Department of Water Resources, Southern District.

The mineral constituents were determined in accordance with methods described in "Standard Methods for the Examination of Water and Waste Water", prepared and published jointly by the American Public Health Association, American Water Works Association, and Water Pollution Control Federation, 12th Edition, 1965. In some cases, the methods used were those presented in the U. S. Geological Survey Water Supply Paper 1454, "Methods for Collection and Analysis of Water Samples", 1960. The trace element constituents were determined by Gordon Bradford, University of California at Riverside, using a Jarrel-Ash Direct Reading Emission Spectrograph.

TABLE D-1

SAMPLING STATION DATA AND INDEX
SOUTHERN CALIFORNIA

Station	Station number	Location*	Beginning of record	Frequency of sampling	Analyses on page
Alamo River					
At International Boundary (59)	W–9–2020.00	17S/16E–18	February 1951	Bimonthly	15, 33, 42
Near Calipatria (60)	W–9–2100.00	11S/13E–22	March 1951	Bimonthly	15, 33, 42
All American Canal					
Above Pilot Knob Wasteway (56A)	W–7–1929.00	16S/21E–24	May 1953	Bimonthly	14, 33, 41
Chino Creek					
Near Chino (86)	Y–2–1210.05	2S/ 8W–36	April 1952	Monthly	18, 34, 44
Colorado River					
Near Topock, Arizona (54)	W–2–1530.00	7N/24E– 8	April 1951	Semiannually	10, 33, 41
At Colorado River Aqueduct Intake (56D)	W–2–1960.00	3N/27E–28	November 1953	Monthly	11
Aqueduct (Upper Feeder) at La Verne (69)	W–2–1985.05	1S/ 9W– 6	April 1951	M-Composite	11
Below Parker Dam (55)	W–2–1775.10	2N/27E–16	April 1951	Semiannually	10, 33, 41
Near Blythe (56C)	W–7–1870.05	7S/23E– 2	May 1953	Semiannually	13, 33, 41
At Yuma, Arizona (56)	W–7–1700.00	16S/23E–36	April 1951	Bimonthly	13, 33, 41
Below Morelos Dam (56B)	W–7–1750.00	8S/24W–28**	May 1953	Bimonthly	13, 33, 41
Cuyama River					
Near Garey (44A)	D–6–3050.00	10N/33W–25	October 1958	Monthly	7, 36
Escondido Creek					
Near Harmony Grove (63)	X–4–3400.05	12S/ 2W–30	March 1951	Bimonthly	16, 45
Lake Cachuma					
Near Santa Ynez (44B)	D–8–1565.00	6N/30W–19	April 1958	Monthly	7, 32, 36
Lake Elsinore					
At State Park (89)	Y–8–2200.00	6S/ 5W– 1	February 1952	Bimonthly	22, 33, 45
Los Angeles Aqueduct					
Near San Fernando (70)	Z–6–1850.05	3N/15W–30	April 1951	Monthly	28, 40
Los Angeles River					
At Figueroa Street (47)	Z–6–1300.00	1S/13W–15	April 1951	Monthly	28, 32, 38
At Pacific Coast Highway (48)	Z–6–1100.00	4S/13W–26	April 1951	Monthly	27, 32, 38
Matilija Creek					
Above Dam (45B)	Z–1–5500.00	5N/23W–19	May 1953	Monthly	23, 32, 36
Mission Creek					
At Whittier Narrows (49A)	Z–7–6150.00	2S/11W– 6	April 1951	Monthly	31, 32, 39
Mojave River					
West Fork Above Cedar Springs (67C)	V–9–2300.00	2N/ 5W– 2	April 1965	Monthly	10, 32
East Fork of the West Fork (67B)	V–9–2250.00	2N/ 4W–10	April 1965	Monthly	10, 32
West Fork Below Cedar Springs (67D)	V–9–2200.00	3N/ 4W–32	May 1965	Monthly	9, 32
At The Forks (67A)	V–9–2150.30	3N/ 3W–18	July 1957	Monthly	9, 33, 40
Near Victorville (67)	V–9–1620.00	6N/ 4W–29	March 1951	Monthly	8, 33, 40
New River					
At International Boundary (57)	W–9–1800.00	17S/14E–14	April 1951	Bimonthly	14, 33, 41
Near Westmorland (58)	W–9–1100.00	12S/13E–30	February 1951	Bimonthly	14, 33, 41

*Township, range, and section number; San Bernardino Base and Meridian

**Gila and Salt River Base and Meridian

TABLE D-1

SAMPLING STATION DATA AND INDEX
SOUTHERN CALIFORNIA

Station	Station number	Location *	Beginning of record	Frequency of sampling	Analyses on page
r Creek					
elow Santa Felicia Dam (46H)	Z–2–3240.00	4N/18W–20	June 1957	Monthly	26, 32, 38
Hondo					
t Whittier Narrows (49)	Z–7–5100.00	2S/11W– 6	April 1951	Monthly	30, 32, 38
bove Spreading Grounds (49B)	Z–6–9780.00	2S/12W–12	May 1963	Monthly	29, 32, 39
on Sea					
t Salton Sea State Park (68A)	W–5–1600.70	7S/10E– 2	March 1955	Bimonthly	12, 33, 42
Diego River					
t Old Mission Dam (65)	X–5–1230.30	15S/2W–25	April 1951	Bimonthly	16, 34, 45
Gabriel River					
t Azusa Powerhouse (50D)	Z–7–1927.10	1N/10W–22	March 1957	Monthly	30, 32, 39
t Whittier Narrows (50)	Z–7–1100.90	2S/11W– 5	April 1951	Monthly	29, 32, 39
Luis Rey River					
At Pala (62)	X–3–1345.00	9S/ 2W–36	March 1951	Bimonthly	16, 34, 45
ta Ana River					
umber One Tailrace Near Mentone (51B)	Y–5–1978.00	1S/ 2W– 4	April 1951	Monthly	19, 33, 43
t Colton (51F)	Y–5–1080.00	1S/ 4W–28	March 1964	Monthly	19, 33, 44
ear Arlington (51)	Y–6–1400.00	2S/ 6W–25	January 1951	Monthly	21, 33, 43
ear Norco (51E)	Y–6–1225.00	2S/ 7W–36	April 1951	Monthly	20, 33, 44
elow Prado Dam (51A)	Y–1–1550.00	3S/ 7W–29	April 1951	Monthly	17, 34, 43
ta Clara River					
t Los Angeles-Ventura County Line (46)	Z–3–1135.00	4N/17W–30	April 1951	Monthly	26, 32, 36
ear Santa Paula (46A)	Z–2–1360.10	3N/21W–12	April 1951	Monthly	24, 32, 37
ta Margarita River					
ear Fallbrook (51C)	X–2–1350.00	9S/ 4W–12	February 1951	Bimonthly	15, 34, 45
ta Paula Creek					
ear Santa Paula (46E)	Z–2–1300.00	4N/21W–27	June 1957	Monthly	24, 32, 37
ta Ynez River					
ear Solvang (45A)	D–8–1440.00	6N/31W–22	April 1951	Monthly	7, 32, 36
Timoteo Creek					
t Waterman Avenue Near San Bernardino (51G)	Y–7–1145.00	1S/ 4W–22	March 1964	Monthly	21, 33, 44
pe Creek					
ear Fillmore (46D)	Z–2–2150.00	4N/20W–12	June 1957	Monthly	25, 32, 37
ng Valley Creek					
ear La Pressa (65B)	X–6–2020.05	17S/ 1W–17	March 1958	Bimonthly	16, 45
Juana River					
t International Boundary (66)	X–8–1100.40	19S/ 2W– 1	April 1951	Bimonthly	17, 45
ntura River					
ear Ventura (61)	Z–1–1100.00	3N/23W– 8	May 1951	Monthly	22, 32, 40
rm Creek					
ear Colton (50B)	Y–4–1100.00	1S/ 4W–21	April 1951	Monthly	18, 33, 42
itewater River					
ear Whitewater (68)	W–3–1450.00	3S/ 3E– 2	February 1951	Monthly	12, 33, 42
ear Mecca (68B)	W–3–1070.00	7S/ 9E–30	July 1957	Bimonthly	12, 33, 42

TABLE D-2 MINERAL ANALYSES OF SURFACE WATER

An explanation of column headings follows:

Lab - 5867 - Fruit Growers Laboratory

5239 - Long Beach Health Department

5091 - State Public Health

5050 - Department of Water Resources

4412 - The Metropolitan Water District of Southern California

1200 - Los Angeles Department of Water and Power

G.H.- The instantaneous gage height in feet above an established datum.

Q - The instantaneous discharge measured in cubic feet per second (cfs).

DO - The dissolved oxygen content in milligrams per liter is listed first and is followed by the percent saturation.

FLD - Field determination.

EC - The specific conductance in micromhos at 25° Centigrade.

TDS - Gravimetric determination of total dissolved solids in milligrams per liter.

Sum - Total dissolved solids determined by addition of analyzed constituents.

TH - Total hardness.

NCH - Non-carbonate hardness.

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER DATE TIME	LAB	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER													
							MILLIEQUIVALENT PER LITER													
							PERCENT REACTANCE VALUE													
																			MILLIGRAMS PER LITER	
Cuyama River Near Garey (44A)																				
D63050.00		4.06	9.2	53 F	7.5	1393	222	44	56	6.0	0.0	124	692	26	2.0	1.2	.22		1180	736
12/01/65	5050	150.	84		7.4		11.08	3.62	2.44	.15		2.03	14.39	.73	.03				1110	634
1545							64	21	14	1		12	84	4						
D63050.00		2.40	11.8	45 F	7.8	1927	211	88	126	6.0	0.0	345	730	87	2.0	1.1	.28		1500	889
01/04/66	5050	1.3	97		7.9		10.53	7.23	5.48	.15		5.66	15.18	2.45	.03				1420	605
1020							45	31	23	1		24	65	11						
D63050.00		2.40	14.0	53 F	7.9	1942	200	95	126	5.0	0.0	305	755	90	0.0	1.2	.32		1540	890
02/01/66	5050	.7	128		8.1		9.98	7.81	5.48	.13		5.00	15.70	2.54					1422	640
1645							43	33	23	1		22	68	11						
D63050.00		2.79	10.0	68 F	7.8	1800	200	81	118	7.0	0.0	295	724	72	0.0	0.9	.38		1420	833
04/04/66	5050	6.0	109		8.0		9.98	6.66	5.13	.18		4.84	15.06	2.03					1348	590
1500							45	30	23	1		22	69	9						
Santa Ynez River Near Solvang (45A)																				
D81440.00		3.33	10.2	56 F	8.1	1021	112	44	54	2.0	0.0	330	235	42	6.0	0.8	.32		680	461
12/01/65	5050	26.0	97		8.0		5.59	3.62	2.35	.05		5.41	4.89	1.18	.10				658	190
1200							48	31	20			47	42	10	1					
D81440.00		3.79	11.6	52 F	8.0	978	104	46	50	2.0	0.0	332	225	32	4.0	0.7	.26		670	449
01/03/66	5050	76.0	105		8.2		5.19	3.78	2.18	.05		5.44	4.68	.90	.06				627	177
1525							46	34	19			49	42	8	1					
D81440.00		3.85	12.0	54 F	8.1	971	102	46	48	2.0	0.0	332	219	33	5.0	0.7	.26		655	444
02/01/66	5050	58.0	112		8.4		5.09	3.78	2.09	.05		5.44	4.56	.93	.08				619	172
1455							46	34	19			49	41	8	1					
D81440.00		3.39	11.4	64 F	8.2	1100	91	65	60	3.0	0.0	356	266	42	0.0	0.5	.32		740	494
03/01/66	5050	17.0	121		8.4		4.54	5.34	2.61	.08		5.84	5.53	1.18					702	202
1520							36	42	21	1		47	44	9						
D81440.00		3.32	14.8	69 F	8.0	1104	86	70	60	2.0	0.0	351	276	44	2.0	0.5	.32		755	502
04/04/66	5050	11.0	164		8.4		4.29	5.75	2.61	.05		5.76	5.74	1.24	.03				713	214
1330							34	45	21			45	45	10						
D81440.00		3.49	15.4	81 F	8.4	1029	74	65	57	2.0	7.0	287	267	37	0.0	0.6	.34		708	452
05/02/66	5050	11.0	192		7.7		3.69	5.34	2.48	.05	.23	4.71	5.55	1.04					651	205
1300							32	46	21		2	41	48	9						
D81440.00		3.29	13.2	78 F	8.2	1037	77	65	60	3.0	0.0	283	281	35	1.0	0.5	.36		720	459
06/01/66	5050	4.0			7.8		3.84	5.34	2.61	.08		4.64	5.84	.99	.02				662	227
1500							32	45	22	1		40	51	9						
Lake Cachuma Near Santa Ynez (44B)																				
D81565.00		18.45	9.0	68 F	8.4	854	81	45	44	4.0	20	195	242	19	2.0	0.6	.36		590	387
10/04/65	5050		99		7.9		4.04	3.70	1.91	.10	.67	3.20	5.03	.54	.03				554	194
1030							41	38	20	1	7	34	53	6						
D81565.00		17.23	9.0	66 F	8.1	870	83	44	44	4.0	0.0	242	247	18	0.0	0.6	.30		550	388
11/01/65	5050		97		8.3		4.14	3.62	1.91	.10		3.97	5.14	.51					559	190
1345							42	37	20	1		41	53	5						
D81565.00		26.27	6.8	60 F	8.0	842	79	42	45	4.0	0.0	231	242	20	3.0	0.6	.40		566	370
12/01/65	5050		68		8.0		3.94	3.45	1.96	.10		3.79	5.03	.56	.05				549	180
1115							42	37	21	1		40	53	6	1					
D81565.00		38.58	8.6	54 F	7.9	813	78	40	41	4.0	0.0	225	228	18	2.0	0.5	.38		548	359
01/03/66	5050		80		7.9		3.89	3.29	1.78	.10		3.69	4.74	.51	.03				522	175
1450							43	36	20	1		41	53	6						
D81565.00		42.80	10.6	52 F	7.9	789	77	38	40	3.0	0.0	228	217	17	2.0	0.6	.38		540	348
02/01/66	5050		96		8.0		3.84	3.12	1.74	.08		3.74	4.51	.48	.03				507	161
1415							44	36	20	1		43	51	5						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER DATE TIME	LAB	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENT PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	MILLIGRAMS PER LITER TDS SUM	TH NCH
Lake Cachuma Near Santa Ynez (44B), continued																				
D81565.00		45.24	10.4	52 F	8.1	793	76	38	40	4.0	0.0	220	220	17	1.0	0.6	.38		530	346
03/01/66	5050		96		8.3		3.79	3.12	1.74	.10		3.61	4.58	.48	.02				505	165
1445							43	36	20	1		42	53	6						
D81565.00		45.87	11.6	64 F	8.1	796	79	38	40	4.0	0.0	227	226	15	3.6	0.6	.40		530	353
04/04/66	5050		121		8.4		3.94	3.12	1.74	.10		3.72	4.70	.42	.06				518	167
1230							44	35	20	1		42	53	5	1					
D81565.00		44.74	10.0	68 F	8.2	819	78	39	40	4.0	0.0	228	224	17	0.5	0.6	.37		552	355
05/02/66	5050		108		8.3		3.89	3.21	1.74	.10		3.74	4.66	.48	.01				515	168
1250							44	36	19	1		42	52	5						
D81565.00		44.74	10.0		8.2	815	78	39	41	5.0	0.0	231	224	17	0.5	0.6	.36		546	355
05/02/66	5050		108		8.3		3.89	3.21	1.78	.13		3.79	4.66	.48	.01				519	166
1300							43	36	20	1		42	52	5						
D81565.00		43.73	9.0	69 F	8.2	854	80	41	42	4.0	0.0	232	233	16	0.8	1.2	.39		565	368
06/01/66	5050		99		8.3		3.99	3.37	1.83	.10		3.80	4.85	.45	.01				532	178
1405							43	36	20	1		42	53	5						
D81565.00		42.05	11.0	76 F	8.2	825	84	40	42	4.0	0.0	232	237	23	0.5	0.5	.40		595	374
07/05/66	5050		130		7.9		4.19	3.29	1.83	.10		3.80	4.93	.65	.01				545	184
1415							45	35	19	1		40	53	7						
D81565.00		40.52	10.2	77 F	8.2	799	70	41	43	4.0	0.0	204	233	19	0.0	0.6	.40		550	343
08/01/66	5050		122		8.0		3.49	3.37	1.87	.10		3.35	4.85	.54					511	176
1345							40	38	21	1		38	55	6						
D81565.00		38.69	7.4	69 F	8.4	797	70	41	43	4.0	7.0	181	234	19	0.6	0.5	.40		544	343
09/05/66	5050		82		8.4		3.49	3.37	1.87	.10	.23	2.97	4.87	.54	.01				508	183
0820							40	38	21	1	3	34	56	6						
Mojave River Near Victorville (67)																				
V91620.00		.63	4.4	68 F	7.1	566	52	13	50	4.0	0.0	223	58	35	8.0	0.6	.12		350	183
10/06/65	5050	15.0	48		7.3		2.59	1.07	2.18	.10		3.66	1.21	.99	.13				330	0
1150							44	18	37	2		61	20	17	2					
V91620.00		.80	7.2	66 F	7.5	509	44	10	46	3.0	0.0	205	27	30	4.0	0.6	.10		320	151
11/03/65	5050	20.0	77		7.4		2.20	.82	2.00	.08		3.36	.56	.85	.06				265	0
1200							43	16	39	2		70	12	18	1					
V91620.00		.35	8.0	53 F	7.7	583	49	10	57	4.0	0.0	200	68	37	5.0	0.6	.12		320	164
12/03/65	5050	36.0	73		7.4		2.45	.82	2.48	.10		3.28	1.41	1.04	.08				329	0
1045							42	14	42	2		56	24	18	1					
V91620.00			10.4	44 F	7.5	352	31	8.0	29	3.0	0.0	139	33	17	4.0	0.4	.08		220	111
01/05/66	5050	200.	85		7.3		1.55	.66	1.26	.08		2.28	.69	.48	.06				194	0
1115							44	19	35	2		65	20	14	2					
V91620.00			8.4	57 F	7.5	596	52	11	56	5.0	0.0	221	62	35	5.0	0.6	.14		340	175
02/03/66	5050	33.	81		7.7		2.59	.90	2.44	.13		3.62	1.29	.99	.08				335	0
1215							43	15	40	2		61	22	17	1					
V91620.00			8.2	53 F	7.5	562	49	10	53	5.0	0.0	206	60	32	7.0	0.6	.15		320	164
03/03/66	5050	40.	76		7.5		2.45	.82	2.31	.13		3.38	1.25	.90	.11				318	0
1050							43	14	40	2		60	22	16	2					
V91620.00			6.6	74 F	7.6	582	59	6.0	56	7.0	0.0	212	68	29	5.6	0.6	.14		350	172
04/06/66	5050	20.	76		7.5		2.94	.49	2.44	.18		3.48	1.41	.82	.09				335	0
1100							49	8	40	3		60	24	14	2					
V91620.00		.86	7.8	78 F	7.4	567	48	11	56	2.0	0.0	215	60	33	0.0	0.7	.16		310	165
05/04/66	5050	17.0	94		7.9		2.40	.90	2.44	.05		3.53	1.25	.93					316	0
1045							41	16	42	1		62	22	16						
V91620.00		.88	6.6	78 F	7.8	591	49	12	60	8.0	0.0	217	64	40	3.8	0.7	.19		350	172
06/07/66	5050	16.0	80		7.6		2.45	.99	2.61	.20		3.56	1.33	1.13	.06				344	0
1110							39	16	42	3		59	22	19	1					
V91620.00		.82	6.8	80 F	7.9	602	51	11	60	7.0	0.0	223	65	39	3.5	0.7	.17		346	172
07/07/66	5050	7.1	84		7.3		2.54	.90	2.61	.18		3.66	1.35	1.10	.06				347	0
0805							41	14	42	3		59	22	18	1					
V91620.00		.88	7.6	93 F	7.7	560	43	10	60	7.0	0.0	200	61	39	2.3	0.7	.14		327	149
08/03/66	5050	14.0	107		7.2		2.15	.82	2.61	.18		3.28	1.27	1.10	.04				321	0
1445							37	14	45	3		58	22	19	1					

TABLE O-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENT PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS SUM	TH NCH
Mojave River Near Victorville (67), continued																				
V91620.00		1.99	7.8	76 F	7.5	668	52	11	72	12	0.0	245	73	43	5.5	0.8	.16		415	175
09/06/66	5050	8.5	104		8.0		2.59	.90	3.13	.31		4.02	1.52	1.21	.09				390	0
0945							37	13	45	4		59	22	18	1					
Mojave River at The Forks (67A)																				
V92150.30			9.2	67 F	7.5	481	26	7.0	70	3.0	0.0	127	113	17	1.0	3.8	.22		330	94
10/06/65	5050	8.	99		7.3		1.30	.58	3.05	.08		2.08	2.35	.48	.02				303	0
1415							26	12	61	2		42	48	10						
V92150.30			8.2	59 F	8.1	503	29	4.0	70	3.0	0.0	122	107	16	2.0	4.0	.24		280	89
11/03/65	5050	10.	81		7.5		1.45	.33	3.05	.08		2.00	2.23	.45	.03				295	0
1335							30	7	62	2		42	47	10	1					
V92150.30			10.8	42 F	7.6	152	15	2.0	13	2.0	0.0	71	7.0	6.0	2.0	0.6	.06		90	46
12/03/65	5050	200.			7.2		.75	.16	.57	.05		1.16	.15	.17	.03				82	0
1215							49	10	37	3		77	10	11	2					
V92150.30			10.4	47 F	7.6	180	12	9.0	11	2.0	0.0	84	12	8.0	3.0	0.3	.04		125	67
01/05/66	5050	300.	88		7.2		.60	.74	.48	.05		1.38	.25	.23	.05				99	0
1230							32	40	26	3		72	13	12	3					
V92150.30			9.4	61 F	7.8	212	22	5.0	13	2.0	0.0	96	12	9.0	3.0	0.5	.03		120	76
02/03/66	5050	30.	89		8.0		1.10	.41	.57	.05		1.57	.25	.25	.05				114	0
1320							52	19	27	2		74	12	12	2					
V92150.30			8.4	56 F	7.6	199	20	4.0	13	2.0	0.0	88	12	8.0	1.0	0.4	.06		108	67
03/03/66	5050	40.	80		7.5		1.00	.33	.57	.05		1.44	.25	.23	.02				104	0
1145							51	17	29	3		74	13	12	1					
V92150.30			8.0	62 F	7.5	167	17	4.0	12	1.0	0.0	83	7.0	5.0	0.5	0.6	.04		110	59
04/06/66	5050	60.	81		7.5		.85	.33	.52	.03		1.36	.15	.14	.01				88	0
1245							49	19	30	2		82	9	8	1					
V92150.30			7.6	69 F	7.7	201	19	4.0	16	2.0	0.0	98	11	5.0	0.0	0.8	.12		100	64
05/04/66	5050	15.	84		7.8		.95	.33	.70	.05		1.61	.23	.14					106	0
1245							47	16	34	2		81	12	7						
V92150.30			8.6	62 F	7.8	239	20	5.0	22	2.0	0.0	112	16	6.0	0.5	1.4	.06		135	71
06/07/66	5050	15.	88		7.5		1.00	.41	.96	.05		1.84	.33	.17	.01				128	0
1005							41	17	40	2		78	14	7						
V92150.30			8.6	74 F	8.2	298	23	4.0	33	3.0	0.0	115	36	9.0	0.0	1.9	.10		165	74
07/07/66	5050	5.	100		7.3		1.15	.33	1.44	.08		1.89	.75	.25					166	0
1005							38	11	48	3		65	26	9						
V92150.30			8.0	84 F	7.6	360	23	5.0	46	3.0	0.0	118	61	11	0.0	2.7	.15		207	78
08/03/66	5050	2.	103		8.2		1.15	.41	2.00	.08		1.94	1.27	.31					210	0
1340							32	11	55	2		55	36	9						
V92150.30			8.4	71 F	7.9	445	24	6.0	58	3.0	0.0	115	92	12	1.2	3.5	.20		266	85
09/06/66	5050	4.	95		8.1		1.20	.49	2.52	.08		1.89	1.91	.34	.02				256	0
1110							28	11	59	2		45	46	8						
Mojave River West Fork Below Cedar Springs (67D)																				
V92200.00		4.47	10.0	52 F	7.6	225	23	7.0	13	2.0	0.0	99	14	12	4.0	0.2	.04		115	87
02/03/66	5050	50.	91		7.4		1.15	.58	.57	.05		1.62	.29	.34	.06				124	6
1455							49	25	24	2		70	13	15	3					
V92200.00		4.41	9.4	52 F	7.9	229	23	6.0	12	2.0	0.0	96	15	10	3.0	0.2	.05		122	82
03/03/66	5050	50.	85		7.3		1.15	.49	.52	.05		1.57	.31	.28	.05				118	4
1315							52	22	24	2		71	14	13	2					
V92200.00					7.8	246	27	7.0	14	2.0	0.0	120	15	12	2.2	0.3	.02		155	97
04/06/66	5050						1.35	.58	.61	.05		1.97	.31	.34	.04				138	0
1345							52	22	24	2		74	12	13	2					
V92200.00		4.19	6.4	75 F	7.7	293	31	8.0	17	3.0	0.0	145	16	11	0.0	0.3	.02		160	111
05/04/66	5050	5.0	75		7.6		1.55	.66	.74	.08		2.38	.33	.31					157	0
1330							51	22	24	3		79	11	10						
V92200.00		3.98		72 F	7.6	351	38	11	21	3.0	0.0	188	13	13	0.0	0.4	.09		190	140
06/07/66	5050	1.5					1.90	.90	.91	.08		3.08	.27	.37					192	0
1350							50	24	24	2		83	7	10						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.M. Q	DO SAT	TEMP	PH LAB FLD	EC LAB	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER													
							MILLIEQUIVALENT PER LITER													
							PERCENT REACTANCE VALUE													
																			MILLIGRAMS PER LITER	
Mojave River West Fork Below Cedar Springs (67D), continued																				
V92200.00				70 F	7.9	264	27	6.0	17	2.0	0.0	117	8.0	17	0.0	0.3	.08		145	92
07/07/66	5050						1.35	.49	.74	.05		1.92	.17	.48					135	0
1240							51	19	28	2		75	7	19						
Mojave River East Fork of the West Fork (67B)																				
V92250.00		3.13	10.2	45 F	7.5	171	16	4.0	11	1.0	0.0	67	11	10	3.0	0.2	.07		90	57
03/03/66	5050	12.0	84		7.4		.80	.33	.48	.03		1.10	.23	.28	.05				89	2
1440							49	20	29	2		66	14	17	3					
V92250.00					7.4	190	19	4.0	13	2.0	0.0	81	12	11	3.6	0.3	.05		130	64
04/06/66	5050						.95	.33	.57	.05		1.33	.25	.31	.06				105	0
1450							50	17	30	3		68	13	16	3					
V92250.00		2.75	8.2	66 F	7.7	199	19	5.0	13	2.0	0.0	82	12	12	2.3	0.2	.06		110	68
05/04/66	5050	5.0	88		7.3		.95	.41	.57	.05		1.34	.25	.34	.04				106	1
1430							48	21	29	3		68	13	17	2					
V92250.00		2.66	8.4	66 F	7.8	220	20	5.0	16	2.0	0.0	93	10	14	2.5	0.3	.07		125	71
06/07/66	5050	3.0	90		7.5		1.00	.41	.70	.05		1.53	.21	.39	.04				115	0
1400							46	19	32	2		71	10	18	2					
V92250.00				68 F	7.1	383	43	12	22	3.0	0.0	210	12	13	0.0	0.4	.08		225	157
07/07/66	5050						2.15	.99	.96	.08		3.44	.25	.37					208	0
1110							51	24	23	2		85	6	9						
Mojave River West Fork Above Cedar Springs (67C)																				
V92300.00				50 F	7.9	276	32	9.0	9.0	3.0	0.0	121	26	8.0	2.0	0.2	.01		164	117
02/03/66	5050						1.60	.74	.39	.08		1.98	.54	.23	.03				149	18
1515							57	26	14	3		71	19	8	1					
V92300.00			9.8	51 F	7.9	292	34	9.0	10	3.0	0.0	125	31	9.0	2.0	0.2	.04		157	122
03/03/66	5050		87		7.9		1.70	.74	.44	.08		2.05	.64	.25	.03				159	20
1410							57	25	15	3		69	22	8	1					
V92300.00					8.2	334	41	12	11	4.0	0.0	156	35	9.0	1.2	0.3	.02		225	152
04/06/66	5050						2.05	.99	.48	.10		2.56	.73	.25	.02				190	24
1420							57	27	13	3		72	21	7	1					
V92300.00		3.71	7.6	70 F	8.2	359	44	12	13	4.0	0.0	166	39	9.0	0.0	0.2	.00		207	160
05/04/66	5050	3.0	85		7.7		2.20	.99	.57	.10		2.72	.81	.25					203	24
1355							57	26	15	3		72	21	7						
V92300.00		3.66		69 F	8.2	385	48	13	15	4.0	0.0	188	40	10	0.0	0.3	.02		250	174
06/07/66	5050	3.0			7.9		2.40	1.07	.65	.10		3.08	.83	.28					222	20
1315							57	25	15	2		74	20	7						
V92300.00		3.57	7.8	78 F	7.8	456	61	13	17	5.0	0.0	229	40	15	0.0	0.3	.03		285	206
07/07/66	5050	.8	94		7.7		3.04	1.07	.74	.13		3.76	.83	.42					264	18
1155							61	21	15	3		75	17	8						
Colorado River Near Topock, Arizona (54)																				
W21530.00		19.22	10.0	64 F	7.8	1211	95	32	114	6.0	0.0	156	339	108	2.8	0.6	.14		830	369
05/19/66	5050	14400.	104		8.0		4.74	2.63	4.96	.15		2.56	7.05	3.05	.05				774	241
1130							38	21	40	1		20	55	24						
W21530.00			7.8	70 F	7.6	1143	95	29	110	5.0	0.0	151	317	103	2.0	0.5	.18		780	356
09/29/66	5050	10000.	87		8.0		4.74	2.38	4.79	.13		2.48	6.59	2.90	.03				736	232
1130							39	20	40	1		21	55	24						
Colorado River Below Parker Dam (55)																				
W21775.10			8.0	72 F	7.8	1209	97	32	118	6.0	0.0	156	344	109	2.3	0.6	.16		845	374
05/18/66	5050	13400.	91		8.0		4.84	2.63	5.13	.15		2.56	7.16	3.07	.04				786	246
1015							38	21	40	1		20	56	24						
W21775.10		19.59	7.0	77 F	8.0	1149	93	30	115	5.0	0.0	154	323	103	1.6	0.5	.16		790	356
09/28/66	5050	8500.	84		8.1		4.64	2.47	5.00	.13		2.53	6.72	2.90	.03				747	229
1415							38	20	41	1		21	55	24						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS / SUM	TH / NCH
							MILLIGRAMS PER LITER / MILLIEQUIVALENT PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
Colorado River at Colorado River Aqueduct Intake (56D)																				
W21960.00				71 F	8.4	1250	95	33	120	5.0	0.0	144	340	120	1.1	0.5		11	797	373
10/06/65	4412						4.74	2.71	5.22	.13		2.36	7.07	3.38	.02				796	255
							37	21	41	1		18	55	26						
W21960.00					8.3	1260	94	34	119	5.0	0.0	144	344	117	1.0	0.4		0.0	797	374
11/09/65	4412						4.69	2.79	5.18	.13		2.36	7.16	3.30	.02				785	256
							37	22	41	1		18	56	26						
W21960.00				60 F	8.1	1220	94	32	114	6.0	0.0	153	330	110	1.3	0.5		0.0	774	366
12/08/65	4412						4.69	2.63	4.96	.15		2.51	6.86	3.10	.02				763	241
1520							38	21	40	1		20	55	25						
W21960.00				54 F	8.1	960	73	25	89	6.0	0.0	148	238	84	1.6	0.5		14	605	285
01/08/66	4412						3.64	2.06	3.87	.15		2.43	4.95	2.37	.03				604	164
							37	21	40	2		25	51	24						
W21960.00				52 F	8.4	1195	91	32	116	0.0	1.0	163	315	110	0.9	0.5		11	763	359
02/08/66	4412						4.54	2.63	5.05		.03	2.67	6.55	3.10	.01				757	224
							37	22	41			22	53	25						
W21960.00				54 F	8.3	1220	96	33	119	6.0	0.0	162	332	114	2.0	0.5		10	793	375
03/08/66	4412						4.79	2.71	5.18	.15		2.66	6.91	3.21	.03				792	242
							37	21	40	1		21	54	25						
W21960.00				65 F	8.3	1200	96	33	114	6.0	0.0	160	334	108	2.0	0.5		10	783	375
04/06/66	4412						4.79	2.71	4.96	.15		2.62	6.95	3.05	.03				782	244
							38	21	39	1		21	55	24						
W21960.00				78 F	8.4	1220	92	33	112	5.0	0.0	144	328	108	1.4	0.5		9.0	760	365
06/08/66	4412						4.59	2.71	4.87	.13		2.36	6.82	3.05	.02				759	247
1315							37	22	40	1		19	56	25						
W21960.00				82 F	8.5	1190	90	32	112	6.0	1.0	131	333	108	1.4	0.5		8.0	758	356
07/06/66	4412						4.49	2.63	4.87	.15	.03	2.15	6.93	3.05	.02				756	247
							37	22	40	1		18	57	25						
W21960.00				82 F	8.4	1170	87	33	113	5.0	0.0	134	331	106	0.9	0.5		10	753	353
08/08/66	4412						4.34	2.71	4.92	.13		2.20	6.88	2.99	.01				752	243
							36	22	41	1		18	57	25						
W21960.00				82 F	8.5	1160	83	33	112	4.0	2.0	120	325	105	0.8	0.2		9.0	734	343
09/07/66	4412						4.14	2.71	4.87	.10	.07	1.97	6.76	2.96	.01				733	241
							35	23	41	1	1	17	57	25						
Colorado River Aqueduct (Upper Feeder) at La Verne (69)																				
W21985.05				72 F	8.2	1240	92	34	119	6.0	0.0	135	348	116	0.9	0.5		0.0	793	369
10/00/65	4412						4.59	2.79	5.18	.15		2.21	7.24	3.27	.01				783	259
							36	22	41	1		17	57	26						
W21985.05					8.2	1270	94	33	117	6.0	0.0	139	341	117	1.1	0.5		0.0	789	370
11/00/65	4412						4.69	2.71	5.09	.15		2.28	7.09	3.30	.02				778	256
							37	21	40	1		18	56	26						
W21985.05					8.2	1230	94	33	116	6.0	0.0	146	339	115	1.2	0.5		0.0	788	370
12/00/65	4412						4.69	2.71	5.05	.15		2.39	7.05	3.24	.02				776	251
							37	22	40	1		19	56	26						
W21985.05				57 F	8.6	1300	45	16	211	6.0	2.0	145	332	118	1.0	0.4		10	814	179
01/00/66	4412						2.25	1.32	9.18	.15	.07	2.38	6.91	3.33	.02				812	56
							17	10	71	1	1	19	54	26						
W21985.05				55 F	8.3	1190	92	32	116	6.0	0.0	151	324	112	1.1	0.5		10	769	361
02/00/66	4412						4.59	2.63	5.05	.15		2.48	6.74	3.16	.02				768	237
							37	21	41	1		20	54	25						
W21985.05					8.3	1190	92	32	116	6.0	0.0	154	327	110	1.4	0.5		10	772	361
03/00/66	4412						4.59	2.63	5.05	.15		2.53	6.80	3.10	.02				770	235
							37	21	41	1		20	55	25						
W21985.05				60 F	8.3	1135	91	32	112	6.0	1.0	144	328	110	1.0	0.5		9.0	763	359
04/00/66	4412						4.54	2.63	4.87	.15	.03	2.36	6.82	3.10	.02				761	239
							37	22	40	1		19	55	25						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENT PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS SUM	TH NCH
Colorado River Aqueduct (Upper Feeder) at La Verne (69), continued																				
W21985.05				65 F	8.3	1240	94	33	115	0.0	1.0	149	332	110	1.5	0.0		9.0	776	370
05/00/66	4412						4.69	2.71	5.00		.03	2.44	6.91	3.10	.02				769	247
							38	22	40			20	55	25						
W21985.05				69 F	8.3	1230	95	33	114	6.0	0.0	151	334	110	1.5	0.4		8.0	777	373
06/00/66	4412						4.74	2.71	4.96	.15		2.48	6.95	3.10	.02				776	249
							38	22	39	1		20	55	25						
W21985.05				73 F	8.2	1220	92	34	114	6.0	0.0	145	332	110	0.8	0.4		8.0	769	369
07/00/66	4412						4.59	2.79	4.96	.15		2.38	6.91	3.10	.01				768	250
							37	22	40	1		19	56	25						
W21985.05				77 F	8.2	1200	89	33	115	5.0	0.0	139	333	106	0.9	0.4		9.0	760	358
08/00/66	4412						4.44	2.71	5.00	.13		2.28	6.93	2.99	.01				759	244
							36	22	41	1		19	57	24						
W21985.05				74 F	8.3	1190	88	33	115	5.0	0.0	140	330	108	0.6	0.4		9.0	759	355
09/00/66	4412						4.39	2.71	5.00	.13		2.30	6.86	3.05	.01				758	240
							36	22	41	1		19	56	25						
Whitewater River Near Mecca (68B)																				
W31070.00			8.4	75 F	8.0	3663	174	47	600	14	0.0	332	937	493	25	3.2	1.00		2470	628
11/08/65	5050	130.	100		8.2		8.68	3.86	26.10	.36		5.44	19.49	13.90	.40				2457	355
1445							22	10	67	1		14	50	35	1					
W31070.00			8.4	69 F	7.7	3255	156	37	525	11	0.0	320	780	422	25	3.0	1.00		2200	541
01/12/66	5050	130.	92		8.2		7.78	3.04	22.84	.28		5.25	16.22	11.90	.40				2117	279
1315							23	9	67	1		16	48	35	1					
W31070.00			10.0	70 F	8.0	2584	177	49	570	12	0.0	354	900	457	25	3.4	.96		2400	644
03/07/66	5050	150.	109		8.1		8.83	4.03	24.80	.31		5.81	18.72	12.89	.40				2368	353
1235							23	11	65	1		15	49	34	1					
W31070.00			8.6	78 F	7.6	3012	163	43	468	13	0.0	307	785	401	27	2.7	.76		2100	583
05/09/66	5050	135.	103		7.6		8.13	3.53	20.36	.33		5.03	16.33	11.31	.43				2054	332
1220							25	11	63	1		15	49	34	1					
W31070.00			7.4	83 F	7.7	3559	163	53	550	13	0.0	320	880	440	32	3.1	.84		2270	625
07/18/66	5050	130.	94		8.1		8.13	4.36	23.93	.33		5.25	18.30	12.41	.52				2292	362
1025							22	12	65	1		14	50	34	1					
W31070.00			7.9	82 F	7.9	3311	174	48	538	13	0.0	342	882	420	31	3.0	.84		2320	632
09/12/66	5050	90.	99		8.3		8.68	3.95	23.40	.33		5.61	18.35	11.84	.50				2277	351
1230							24	11	64	1		15	51	33	1					
Whitewater River Near Whitewater (68)																				
W31450.00		1.45	8.0	66 F	7.8	448	57	14	16	5.0	0.0	223	48	5.0	2.0	1.0	.02		245	200
11/08/65	5050	15.0	86		7.5		2.84	1.15	.70	.13		3.66	1.00	.14	.03				257	17
1225							59	24	15	3		76	21	3	1					
W31450.00		1.12	8.4	66 F	8.0	495	63	15	17	6.0	0.0	244	50	6.0	1.0	1.0	.01		300	219
01/10/66	5050	3.0	90		8.0		3.14	1.23	.74	.15		4.00	1.04	.17	.02				279	19
1135							60	23	14	3		76	20	3						
W31450.00		1.41	9.2	61 F	7.7	483	60	16	15	6.0	0.0	232	51	6.0	6.0	0.9	.02		270	216
03/07/66	5050	7.0	93		7.6		2.99	1.32	.65	.15		3.80	1.06	.17	.10				275	26
1010							59	26	13	3		74	21	3	2					
W31450.00		1.41	8.6	67 F	7.7	435	56	13	14	6.0	0.0	217	38	3.0	0.8	1.0	.00		235	193
05/09/66	5050	8.0	93		8.2		2.79	1.07	.61	.15		3.56	.79	.08	.01				238	15
1100							60	23	13	3		80	18	2						
W31450.00		1.56	8.0	69 F	8.3	405	50	15	13	5.0	5.0	205	30	4.0	1.4	1.0	.02		210	187
07/18/66	5050	9.0	89		8.2		2.50	1.23	.57	.13	.17	3.36	.62	.11	.02				225	10
0900							56	28	13	3	4	79	14	3						
W31450.00		1.47	7.8	72 F	8.0	385	51	12	13	5.0	0.0	210	31	3.0	0.5	1.0	.00		230	177
09/12/66	5050	8.0	89		8.2		2.54	.99	.57	.13		3.44	.64	.08	.01				219	5
1120							60	23	13	3		82	15	2						
Salton Sea at Salton Sea State Park (68A)																				
W51600.70		32.90		76 F	7.3	44050	870	1030	10250	176	0.0	190	7912	14500	10	3.6	8.60		36120	6409
11/08/65	5050				8.4		43.41	84.67	445.88	4.51		3.12	164.57	408.90	.16				34853	6253
1520							8	15	77	1		1	29	71						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENT PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS SUM	TH NCH
Salton Sea at Salton Sea State Park (68A), continued																				
W51600.70		32.51		61 F	8.1	42626	844	1003	10200	172	0.0	193	7436	14524	16	2.9	9.00		35235	6233
01/10/66	5050				8.4		42.12	82.45	443.70	4.40		3.17	154.67	409.58	.26				34301	6075
1410							7	14	77	1		1	27	72						
W51600.70		32.20		67 F	6.8	42370	810	1038	10050	168	0.0	210	7639	14440	25	3.4	9.20		35040	6292
03/07/66	5050				8.5		40.42	85.32	437.18	4.30		3.44	158.89	407.21	.40				34286	6120
1330							7	15	77	1		1	28	71						
W51600.70		32.82	4.4	77 F	7.2	40984	842	1023	9912	160	0.0	171	7534	14342	5.0	3.1	8.80		35560	6311
05/09/66	5050		51		8.0		42.02	84.09	431.17	4.10		2.80	156.71	404.44	.08				33914	6170
1300							7	15	77	1			28	72						
W51600.70		32.20	4.0	89 F	7.4	44050	846	1049	10500	166	0.0	166	7847	15300	10	3.2	8.80		35840	6428
07/15/66	5050		54		8.5		42.22	86.23	456.75	4.25		2.72	163.22	431.46	.16				35811	6292
1100							7	15	77	1			27	72						
W51600.70		32.71	11.2	87 F	7.6	41322	866	1082	10200	170	0.0	200	7945	14500	5.0	3.7	8.80		36780	6613
09/12/66	5050		149		8.4		43.21	88.94	443.70	4.35		3.28	165.26	408.90	.08				34879	6449
1320							7	15	76	1		1	29	71						
Colorado River at Yuma, Arizona (56)																				
W 71700.00		10.74	9.0	69 F	8.1	1610	110	38	176	6.0	0.0	193	403	176	2.0	0.7	.24		1020	431
11/09/65	5050	954.	98		8.2		5.49	3.12	7.66	.15		3.17	8.38	4.96	.03				1007	272
1500							33	19	47	1		19	51	30						
W 71700.00		11.19	11.0	60 F	7.9	1451	106	36	153	6.0	0.0	187	362	149	3.0	0.8	.20		936	413
03/08/66	5050	1300.	109		7.9		5.29	2.96	6.66	.15		3.07	7.53	4.20	.05				908	259
1645							35	20	44	1		21	51	28						
W 71700.00		10.67	8.4	75 F	7.4	1456	107	37	151	6.0	0.0	181	383	149	2.0	0.6	.20		980	419
05/10/66	5050	891.	98		7.5		5.34	3.04	6.57	.15		2.97	7.97	4.20	.03				924	271
1415							35	20	44	1		20	53	28						
W71700.00		10.35	5.4	83 F	7.6	1821	129	44	205	5.0	0.0	232	426	234	2.5	0.7	.25		1240	503
07/19/66	5050	710.	68		7.8		6.44	3.62	8.92	.13		3.80	8.86	6.60	.04				1160	313
0900							34	19	47	1		20	46	34						
W71700.00		10.31	7.2	87 F	7.6	1842	109	43	230	6.0	0.0	220	395	260	2.0	0.9	.32		1210	449
09/13/66	5050	650.	96		8.4		5.44	3.53	10.01	.15		3.61	8.22	7.33	.03				1154	268
1445							28	18	52	1		19	43	38						
Colorado River Below Morelos Dam (56B)																				
W71750.00		9.52	7.2	72 F	7.4	2288	143	57	285	6.0	0.0	259	498	351	5.0	0.8	.28		1530	592
11/09/65	5050	32.6	82		7.8		7.14	4.69	12.40	.15		4.25	10.36	9.90	.08				1473	379
1425							29	19	51	1		17	42	40						
W71750.00		9.88	9.2	67 F	7.7	7825	333	149	1236	13	0.0	337	955	2020	7.0	2.2	1.90		5040	1445
01/11/66	5050	318.	99		8.0		16.62	12.25	53.77	.33		5.53	19.86	56.96	.11				4882	1168
1500							20	15	65			7	24	69						
W71750.00				73 F	7.7	5656	264	116	820	10	0.0	314	770	1318	6.0	2.1	1.22		3653	1136
03/08/66	5050	126.					13.17	9.54	35.67	.26		5.15	16.02	37.17	.10				3461	879
1520							22	16	61			9	27	64						
W71750.00		8.54		78 F	7.6	5061	250	109	720	10	0.0	307	781	1121	8.0	1.6	.56		3390	1073
05/10/66	5050	115.					12.48	8.96	31.32	.26		5.03	16.24	31.61	.13				3152	821
1505							24	17	59			9	31	60						
W71750.00				80 F	7.6	2350	158	55	288	7.0	0.0	259	490	362	2.0	0.9	.40		1554	620
07/19/66	5050	15.6					7.88	4.52	12.53	.18		4.25	10.19	10.21	.03				1490	408
0815							31	18	50	1		17	41	41						
W71750.00			9.6	85 F	7.8	2000	135	47	235	6.0	0.0	234	434	285	1.2	0.8	.32		1340	530
09/13/66	5050	14.5	124		8.0		6.74	3.86	10.22	.15		3.84	9.03	8.04	.02				1259	338
1345							32	18	49	1		18	43	38						
Colorado River Near Blythe (56C)																				
W71870.05			8.4	80 F	7.8	1247	98	34	120	6.0	0.0	161	349	113	1.8	0.6	.16		850	384
05/16/66	5050	8710.	103		8.0		4.89	2.79	5.22	.15		2.64	7.26	3.19	.03				801	252
1615							37	21	40	1		20	55	24						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER												MILLIGRAMS PER LITER	
							MILLIEQUIVALENT PER LITER													
							PERCENT REACTANCE VALUE													
Colorado River Near Blythe (56C), continued																				
W71870.05			7.4	78 F	7.8	1212	95	33	118	5.0	0.0	161	336	110	1.6	0.5	.18		830	373
09/26/66	5050	3000.	89		8.2		4.74	2.71	5.13	.13		2.64	6.99	3.10	.03				778	241
1415							37	21	40	1		21	55	24						
All American Canal Above Pilot Knob Wasteway (56A)																				
W71929.00		7.30	8.2	68 F	8.0	1550	106	38	180	6.0	0.0	193	395	175	3.0	0.6	.18		1020	421
11/09/65	5050	2255.	90		8.0		5.29	3.12	7.83	.15		3.17	8.22	4.94	.05				998	262
1200							32	19	48	1		19	50	30						
W71929.00		7.38	10.4	54 F	8.0	1389	89	30	168	5.0	0.0	190	304	165	1.0	0.8	.23		892	346
01/11/66	5050	2279.	97		8.1		4.44	2.47	7.31	.13		3.12	6.32	4.65	.02				856	190
1230							31	17	51	1		22	45	33						
W71929.00		7.19	11.0	57 F	7.7	1392	100	35	147	6.0	0.0	176	351	144	3.0	0.8	.19		902	394
03/08/66	5050	1035.	106		8.0		4.99	2.88	6.39	.15		2.89	7.30	4.06	.05				873	249
1230							35	20	44	1		20	51	28						
W71929.00		7.13	7.8	74 F	7.6	1364	103	34	140	6.0	0.0	173	368	134	1.5	0.6	.18		930	397
05/10/66	5050	5580.	91		8.2		5.14	2.79	6.09	.15		2.84	7.65	3.78	.02				872	255
1345							36	20	43	1		20	54	26						
W71929.00		7.32	6.2	85 F	7.8	1333	92	37	143	6.0	0.0	159	360	133	2.0	0.6	.21		880	382
07/19/66	5050	8798.	81		8.2		4.59	3.04	6.22	.15		2.61	7.49	3.75	.03				852	251
0945							33	22	44	1		19	54	27						
W71929.00		7.30	7.0	82 F	7.8	1355	96	34	148	5.0	0.0	178	355	134	1.2	1.3	.20		900	379
09/13/66	5050	6636.	88		8.0		4.79	2.79	6.44	.13		2.92	7.38	3.78	.02				862	233
1415							34	20	46	1		21	52	27						
New River Near Westmorland (58)																				
W91100.00		2.08	6.8	68 F	7.4	6238	245	120	975	32	0.0	275	860	1500	20	0.7	1.60		3980	1105
11/08/65	5050	406.	74		8.1		12.23	9.86	42.41	.82		4.51	17.89	42.30	.32				3889	880
1830							19	15	65	1		7	28	65						
W91100.00		2.16	8.4	57 F	7.4	7133	255	126	1120	42	0.0	284	772	1838	33	1.0	1.80		4528	1155
01/10/66	5050	431.	81		7.6		12.72	10.36	48.72	1.08		4.66	16.06	51.83	.53				4328	922
1645							17	14	67	1		6	22	71	1					
W91100.00		3.42	8.4	63 F	7.6	5076	215	103	760	21	0.0	251	753	1162	20	0.7	1.20		3320	961
03/07/66	5050	641.	87		7.7		10.73	8.47	33.06	.54		4.12	15.66	32.77	.32				3159	755
1730							20	16	63	1		8	30	62	1					
W91100.00		2.86	6.0	76 F	7.4	5848	257	126	880	26	0.0	276	919	1364	20	0.9	1.40		3990	1160
05/09/66	5050	530.	71		8.2		12.82	10.36	38.28	.67		4.53	19.12	38.46	.32				3730	933
1500							21	17	62	1		7	31	62	1					
W91100.00		3.12	4.0	89 F	7.8	5556	222	109	800	29	0.0	242	814	1210	20	1.0	1.10		3400	1003
07/18/66	5050	563.	54		7.8		11.08	8.96	34.80	.74		3.97	16.93	34.12	.32				3325	804
1330							20	16	63	1		7	31	62	1					
W91100.00		2.95	6.2	83 F	7.5	5319	237	124	860	22	0.0	351	880	1270	12	0.9	1.22		3740	1102
09/12/66	5050	509.	79		7.9		11.83	10.19	37.41	.56		5.76	18.30	35.81	.19				3579	814
1535							20	17	62	1		10	30	60						
New River at International Boundary (57)																				
W91800.00		8.49	5.6	68 F	7.3	8696	254	123	1450	123	0.0	303	763	2430	12	1.1	1.90		5630	1140
11/09/65	5050	113.	61		8.1		12.67	10.11	63.08	3.15		4.97	15.87	68.53	.19				5306	891
0950							14	11	71	4		6	18	77						
W91800.00		8.98	8.6	55 F	7.4	7893	253	113	1254	88	0.0	355	589	2161	17	0.9	1.90		4898	1096
01/11/66	5050	157.	81		8.2		12.62	9.29	54.55	2.25		5.82	12.25	60.94	.27				4652	805
1000							16	12	69	3		7	15	77						
W91800.00		9.26	9.4	62 F	7.3	6274	221	109	970	63	0.0	256	671	1636	12	0.8	1.50		4060	1000
03/08/66	5050	179.	96		8.1		11.03	8.96	42.20	1.61		4.20	13.96	46.14	.19				3810	790
0910							17	14	66	3		7	22	72						
W91800.00		8.46		79 F	7.4	8000	374	100	1295	70	0.0	586	395	2323	9.9	0.9	1.90		5200	1345
05/10/66	5050	112.			7.8		18.66	8.22	56.33	1.79		9.61	8.22	65.51	.16				4857	864
1130							22	10	66	2		12	10	78						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENT PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
New River at International Boundary (57), continued																				
W91800.00		8.52	4.8	89 F	6.9	8850	294	154	1435	77	0.0	251	932	2420	7.4	1.0	2.20		5890	1368
07/19/66	5050	121.	65		7.8		14.67	12.66	62.42	1.97		4.12	19.39	68.24	.12				5446	1161
1145							16	14	68	2		4	21	74						
W91800.00		8.52	6.8	84 F	7.2	7782	302	154	1200	60	0.0	305	892	2080	7.4	1.0	1.60		5180	1388
09/13/66	5050	125.	87		7.9		15.07	12.66	52.20	1.54		5.00	18.55	58.66	.12				4847	1137
1015							18	16	64	2		6	23	71						
Alamo River at International Boundary (59)																				
W92020.00		.26	9.8	63 F	7.9	5100	222	123	800	10	0.0	355	999	1050	7.0	0.7	1.40		3520	1060
11/09/65	5050	1.8	101		7.9		11.08	10.11	34.80	.26		5.82	20.78	29.61	.11				3387	769
1100							20	18	62			10	37	53						
W92020.00		.30	9.8	54 F	7.7	5767	242	141	896	11	0.0	383	1114	1151	24	1.2	1.85		3910	1184
01/11/66	5050	2.2	91		7.7		12.08	11.59	38.98	.28		6.28	23.17	32.46	.39				3770	870
1115							19	18	62			10	37	52	1					
W92020.00		.29	10.0	62 F	7.9	4462	191	112	660	9.0	0.0	319	869	843	4.0	1.4	1.25		2985	938
03/08/66	5050	2.1	103		7.8		9.53	9.21	28.71	.23		5.23	18.08	23.77	.06				2847	676
1036							20	19	60			11	38	50						
W92020.00		.25	6.6	77 F	7.4	5747	245	143	864	12	0.0	339	1152	1136	7.4	1.0	2.05		4015	1200
05/10/66	5050	1.7	79		7.4		12.23	11.75	37.58	.31		5.56	23.96	32.04	.12				3729	922
1240							20	19	61	1		9	39	52						
W92020.00		.26	4.6	85 F	7.1	3759	175	91	550	10	0.0	271	748	733	7.4	1.1	.65		2605	811
07/19/66	5050	1.8	60		7.8		8.73	7.48	23.93	.26		4.44	15.56	20.67	.12				2449	589
1115							22	19	59	1		11	38	51						
W92020.00		.23	4.2	78 F	7.5	5917	261	160	940	12	0.0	371	1213	1270	7.4	1.1	1.70		4240	1310
09/13/66	5050	1.5	51		7.6		13.02	13.15	40.89	.31		6.08	25.23	35.81	.12				4048	1005
1045							19	20	61			9	38	53						
Alamo River Near Calipatria (60)																				
W92100.00		9.06	7.8	68 F	7.7	4517	230	119	600	13	0.0	246	946	858	25	0.5	.68		3020	1064
11/08/65	5050	733.	85		8.2		11.48	9.78	26.10	.33		4.03	19.68	24.20	.40				2913	862
1750							24	21	55	1		8	41	50	1					
W92100.00		8.91	10.0	55 F	7.4	4137	199	111	558	10	0.0	223	754	826	33	0.9	.66		2735	953
01/10/66	5050	611.	94		7.8		9.93	9.12	24.27	.26		3.66	15.68	23.29	.53				2602	770
1605							23	21	56	1		8	36	54	1					
W92100.00		9.60	9.6	60 F	7.2	3876	200	109	525	11	0.0	220	839	722	31	0.8	.64		2600	948
03/02/66	5050	937.	91		7.8		9.98	8.96	22.84	.28		3.61	17.45	20.36	.50				2546	767
1630							24	21	54	1		9	42	49	1					
W92100.00		9.80	6.8	76 F	7.3	4132	217	115	550	14	0.0	229	917	763	30	0.5	.72		2890	1015
05/09/66	5050	917.	80		7.8		10.83	9.45	23.93	.36		3.76	19.07	21.52	.48				2719	827
1430							24	21	54	1		8	43	48	1					
W92100.00		10.09	5.6	70 F	7.2	3922	196	110	550	13	0.0	220	872	743	22	1.0	.62		2690	942
07/18/66	5050	975.	62		7.8		9.78	9.04	23.93	.33		3.61	18.14	20.95	.35				2615	761
1320							23	21	56	1		8	42	49	1					
W92100.00		9.57	7.2	82 F	7.6	3906	192	112	525	12	0.0	242	859	705	15	0.9	.64		2700	940
09/12/66	5050	833.	71		8.2		9.58	9.21	22.84	.31		3.97	17.87	19.88	.24				2540	742
1500							23	22	54	1		9	43	47	1					
Santa Margarita River Near Fallbrook (51C)																				
X21350.00		2.31	8.6	58 F	7.9	1214	94	30	124	3.0	0.0	342	128	150	0.0	0.6	.22		697	358
11/10/65	5050	4.0	84		7.8		4.69	2.47	5.39	.08		5.61	2.66	4.23					697	78
1310							37	20	43	1		45	21	34						
X21350.00		2.46	11.2	53 F	8.0	1149	83	32	112	3.0	0.0	273	145	150	3.0	0.6	.18		710	339
01/13/66	5050	9.8	102		8.0		4.14	2.63	4.87	.08		4.48	3.02	4.23	.05				663	115
1325							35	22	42	1		38	26	36						
X21350.00		2.38	10.8	59 F	8.0	1242	96	37	118	3.0	0.0	307	164	162	2.0	0.7	.18		770	392
03/10/66	5050	7.9	106		8.0		4.79	3.04	5.13	.08		5.03	3.41	4.57	.03				733	140
1225							37	23	39	1		39	26	35						
X21350.00		2.26	8.2	62 F	8.2	1277	99	37	127	3.0	0.0	339	181	160	1.5	0.7	.18		800	399
05/12/66	5050	4.0	84		7.8		4.94	3.04	5.52	.08		5.56	3.76	4.51	.02				775	121
1020							36	22	41	1		40	27	33						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS / SUM	TH / NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER										MILLIGRAMS PER LITER			
							MILLIEQUIVALENT PER LITER													
							PERCENT REACTANCE VALUE													
Santa Margarita River Near Fallbrook (51C), continued																				
X21350.00		2.02	6.6	72 F	7.9	730	114	38	144	3.0	0.0	422	135	191	1.2	1.0	.20		880	441
07/20/66	5050	.1	73		7.3		5.69	3.12	6.26	.08		6.92	2.81	5.39	.02				834	95
1245							38	21	41	1		46	19	36						
X21350.00			6.6	64 F	7.7	1475	115	41	155	4.0	0.0	444	139	195	0.0	0.8	.24		908	456
09/14/66	5050	1.	69		7.6		5.74	3.37	6.74	.10		7.28	2.89	5.50					868	92
1630							36	21	42	1		46	18	35						
San Luis Rey River at Pala (62)																				
X31345.00		2.32	8.0	65 F	7.4	508	44	14	38	5.0	0.0	142	95	29	0.0	0.5	.07		344	168
01/13/66	5050	1.	85		7.2		2.20	1.15	1.65	.13		2.33	1.98	.82					295	51
1240							43	22	32	3		45	39	16						
X31345.00			8.6	71 F	7.7	504	45	14	35	5.0	0.0	153	85	28	0.0	0.4	.07		310	170
03/10/66	5050	.2	97		7.3		2.25	1.15	1.52	.13		2.51	1.77	.79					287	45
1110							45	23	30	3		50	35	16						
Escondido Creek Near Harmony Grove (63)																				
X43400.05		2.81	1.8	66 F	7.1	2248	97	42	300	18	0.0	134	359	373	110	1.6	.80		1380	415
11/10/65	5050	4.	19		7.4		4.84	3.45	13.05	.46		2.20	7.47	10.52	1.77				1367	305
1035							22	16	60	2		10	34	48	8					
X43400.05			4.0	54 F	7.3	2475	110	61	324	14	0.0	339	310	440	53	1.0	.76		1479	525
01/13/66	5050	2.	37		7.3		5.49	5.01	14.09	.36		5.56	6.45	12.41	.85				1480	247
1130							22	20	56	1		22	26	49	3					
X43400.05			1.2	60 F	7.1	2350	104	54	293	13	0.0	339	268	417	38	1.0	.70		1356	482
03/10/66	5050	6.	11		7.3		5.19	4.44	12.75	.33		5.56	5.57	11.76	.61				1355	204
0935							23	20	56	1		24	24	50	3					
X43400.05			1.2	67 F	7.3	2208	97	57	269	13	0.0	339	288	369	27	0.9	.55		1340	477
05/12/66	5050	4.	12		7.4		4.84	4.69	11.70	.33		5.56	5.99	10.41	.43				1288	199
0800							22	22	54	2		25	27	46	2					
X43400.05			2.4	72 F	7.0		101	53	293	13	0.0	212	311	416	50	1.4	.68		1470	470
07/20/66	5050	2.	27		7.3		5.04	4.36	12.75	.33		3.48	6.47	11.73	.81				1343	296
0950							22	19	57	1		15	29	52	4					
X43400.05			4.4	74 F	7.1	2112	84	49	285	13	0.0	211	247	401	50	1.4	.76		1338	411
09/14/66	5050	7.	51		7.3		4.19	4.03	12.40	.33		3.46	5.14	11.31	.81				1235	238
1500							20	19	59	2		17	25	55	4					
San Diego River at Old Mission Dam (65)																				
X51230.30			2.8	61 F	7.9	3246	139	79	464	9.0	0.0	541	299	667	5.0	0.7	.92		1977	672
11/10/65	5050	.1	110		7.2		6.94	6.49	20.18	.23		8.87	6.22	18.81	.08				1929	228
0920							21	19	60	1		26	18	55						
X51230.30			7.0	59 F	7.2	1412	64	37	178	7.0	0.0	185	204	225	31	0.6	.34		855	312
01/12/66	5050	5.	69		7.2		3.19	3.04	7.74	.18		3.03	4.24	6.35	.50				838	160
1415							23	21	55	1		21	30	45	4					
X51230.30			5.2	69 F	7.0	1667	72	46	206	8.0	0.0	227	236	263	35	0.7	.48		1008	369
03/09/66	5050	8.	57		7.8		3.59	3.78	8.96	.20		3.72	4.91	7.42	.56				978	183
1450							22	23	54	1		22	30	45	3					
X51230.30			4.8	64 F	7.2	2114	91	61	276	9.0	0.0	303	304	354	11	0.8	.60		1310	478
05/11/66	5050	3.	50		7.6		4.54	5.01	12.01	.23		4.97	6.32	9.98	.18				1256	229
1520							21	23	55	1		23	29	47	1					
X51230.30			3.0	70 F	7.4	2222	96	61	293	8.0	0.0	422	222	406	2.5	0.8	.66		1350	490
07/20/66	5050		33		7.3		4.79	5.01	12.75	.20		6.92	4.62	11.45	.04				1297	144
0845							21	22	56	1		30	20	50						
Spring Valley Creek Near La Pressa (65B)																				
X62020.05			5.2	59 F	7.6	12136	609	292	1800	5.0	0.0	495	878	3780	15	0.7	1.20		8170	2722
11/10/65	5050	.1	51		7.9		30.39	24.00	78.30	.13		8.12	18.26	106.60	.24				7623	2315
0800							23	18	59			6	14	80						

TABLE O-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.H. / Q	DO / SAT	TEMP	PH / LAB / FLO	EC / LAB	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENT PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS / SUM	TH / NCH
Spring Valley Creek Near La Pressa (65B), continued																				
X62020.05				54 F	8.2	4179	204	141	525	4.0	0.0	387	633	879	40	1.0	1.05		2750	1089
01/12/66	5050	2.0			8.2		10.18	11.59	22.84	.10		6.35	13.17	24.79	.64				2618	772
1155							23	26	51			14	29	55	1					
X62020.05				66 F	8.0	5015	203	156	660	3.0	0.0	304	652	1169	18	1.2	.48		3260	1148
03/09/66	5050	2.0			8.3		10.13	12.82	28.71	.08		4.99	13.56	32.97	.29				3012	899
1200							20	25	55			10	26	64	1					
X62020.05			12.0	72 F	7.2	11628	539	304	1700	6.0	0.0	298	905	3670	7.4	1.0	1.10		8430	2597
07/20/66	5050	1.0	136		7.6		26.90	24.99	73.95	.15		4.89	18.82	103.49	.12				7280	2352
0745							21	20	59			4	15	81						
Tia Juana River at International Boundary (66)																				
X81100.40			4.0	66 F	7.8	1923	84	36	282	18	0.0	542	73	323	19	1.0	.72		1134	358
03/10/66	5050	.2	42		8.2		4.19	2.96	12.27	.46		8.89	1.52	9.11	.31				1102	0
1000							21	15	62	2		45	8	46	2					
Santa Ana River Below Prado Dam (51A)																				
Y11550.00		1.96	7.2	74 F	7.9	1193	113	29	105	6.0	0.0	350	130	142	13	0.7	.40		740	401
10/07/65	5050	22.	84		7.4		5.64	2.38	4.57	.15		5.74	2.70	4.00	.21				711	114
1550							44	19	36	1		45	21	32	2					
Y11550.00		2.01	7.2	68 F	7.9	1269	115	24	120	7.0	0.0	350	140	153	14	0.8	.32		750	386
11/04/65	5050	28.	79		8.0		5.74	1.97	5.22	.18		5.74	2.91	4.31	.23				746	99
1535							44	15	40	1		44	22	33	2					
Y11550.00		2.93	4.2	68 F	7.1	1384	132	30	124	10	0.0	375	170	160	16	0.8	.37		872	453
12/06/65	5050	237.	46		8.2		6.59	2.47	5.39	.26		6.15	3.54	4.51	.26				827	146
1600							45	17	37	2		43	24	31	2					
Y11550.00					7.2	1305	117	31	117	9.0	0.0	333	156	157	37	0.8	.34		810	420
12/21/65	5050						5.84	2.55	5.09	.23		5.46	3.24	4.43	.60				788	147
1330							43	19	37	2		40	24	32	4					
Y11550.00		2.59		61 F	7.0	1121	96	25	105	8.0	0.0	307	122	139	10	0.7	.34		655	343
12/29/65	5050	135.					4.79	2.06	4.57	.20		5.03	2.54	3.92	.16				656	91
1400							41	18	39	2		43	22	34	1					
Y11550.00		2.42	6.8	64 F	7.2	1346	127	29	121	10	0.0	358	160	157	36	0.9	.38		830	436
01/06/66	5050	91.0	71		8.0		6.34	2.38	5.26	.26		5.87	3.33	4.43	.58				817	143
1445							45	17	37	2		41	23	31	4					
Y11550.00		2.33	7.4	63 F	7.1	1290	113	27	116	9.0	0.0	324	142	153	40	0.9	.45		735	393
02/04/66	5050	75.0	76		7.6		5.64	2.22	5.05	.23		5.31	2.95	4.31	.64				760	128
1330							43	17	38	2		40	22	33	5					
Y11550.00		2.28	5.8	62 F	7.1	1309	108	27	122	10	0.0	322	132	159	25	1.1	.62		755	381
03/04/66	5050	67.0	59		7.3		5.39	2.22	5.31	.26		5.28	2.75	4.48	.40				743	117
1230							41	17	40	2		41	21	35	3					
Y11550.00		2.21	6.0	74 F	7.3	1248	105	27	114	8.0	0.0	309	142	146	32	0.9	.41		778	373
04/07/66	5050	49.0	70		7.4		5.24	2.22	4.96	.20		5.07	2.95	4.12	.53				728	120
1310							42	18	39	2		40	23	33	4					
Y11550.00		2.14	7.8	76 F	8.2	1220	111	29	114	8.0	0.0	322	146	153	26	0.9	.42		765	396
05/05/66	5050	45.0	92		7.6		5.54	2.38	4.96	.20		5.28	3.04	4.31	.42				746	132
1230							42	18	38	2		40	23	33	3					
Y11550.00		2.16	7.2	73 F	7.5	1212	107	26	110	8.0	0.0	300	132	143	32	0.9	.44		780	374
06/08/66	5050	37.0	83		7.5		5.34	2.14	4.79	.20		4.92	2.75	4.03	.52				706	128
1310							43	17	38	2		40	23	33	4					
Y11550.00		2.01	6.6	80 F	7.4	1239	105	30	120	7.0	0.0	322	140	158	29	0.8	.48		770	386
07/13/66	5050	22.0	81		8.0		5.24	2.47	5.22	.18		5.28	2.91	4.46	.47				748	122
1230							40	19	40	1		40	22	34	4					
Y11550.00		1.99	7.0	86 F	8.0	1250	114	30	114	7.0	0.0	337	146	152	35	1.0	.39		820	408
08/04/66	5050	23.0	92		7.8		5.69	2.47	4.96	.18		5.53	3.04	4.29	.56				765	132
1600							43	19	37	1		41	23	32	4					
Y11550.00		1.99	7.4	73 F	8.0	1226	107	27	116	7.0	0.0	330	139	145	23	0.9	.41		769	378
09/07/66	5050	25.0	85		8.0		5.34	2.22	5.05	.18		5.41	2.89	4.09	.37				727	108
1200							42	17	39	1		42	23	32	3					

TABLE O-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS / SUM	TH / NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
							MILLIEQUIVALENT PER LITER													
							PERCENT REACTANCE VALUE													
Chino Creek Near Chino (86)																				
Y21210.05			3.6	70 F	7.6	635	45	13	61	11	0.0	256	36	54	7.0	1.4	.28		385	166
10/07/65	5050	1.5	40		7.5		2.25	1.07	2.65	.28		4.20	.75	1.52	.11				354	0
1620							36	17	42	4		64	11	23	2					
Y21210.05			6.4	61 F	7.1	893	52	12	98	12	0.0	373	33	77	7.0	2.3	.30		480	179
11/04/65	5050	1.5	65		8.0		2.59	.99	4.26	.31		6.12	.69	2.17	.11				476	0
1600							32	12	52	4		67	8	24	1					
Y21210.05				55 F	7.4	968	85	21	89	18	0.0	311	116	54	72	1.6	.35		623	299
12/06/65	5050	.3			8.4		4.24	1.73	3.87	.46		5.10	2.41	1.52	1.16				609	44
1645							41	17	38	4		50	24	15	11					
Y21210.05			8.2	50 F	7.2	1202	114	27	94	26	0.0	358	148	104	56	1.3	.24		768	396
01/06/66	5050	1.	72		7.6		5.69	2.22	4.09	.67		5.87	3.08	2.93	.90				746	102
1525							45	18	32	5		46	24	23	7					
Y21210.05			5.6	55 F	7.1	502	40	8.0	24	30	0.0	178	37	32	25	0.5	.21		272	133
02/04/66	5050	.5	53		7.4		2.00	.66	1.04	.77		2.92	.77	.90	.40				284	0
1415							45	15	23	17		59	15	18	8					
Y21210.05			12.6	56 F	7.1	1033	49	23	106	46	0.0	256	75	96	98	0.6	.50		625	217
03/04/66	5050	1.	120		8.3		2.45	1.89	4.61	1.18		4.20	1.56	2.71	1.58				620	7
1320							24	19	46	12		42	16	27	16					
Y21210.05			8.6	66 F	7.9	957	95	26	66	26	0.0	354	131	52	18	0.6	.18		617	344
04/07/66	5050	. 2.	92		8.0		4.74	2.14	2.87	.67		5.81	2.72	1.47	.29				588	54
1335							45	21	28	6		56	26	14	3					
Y21210.05			6.8	72 F	7.5	747	52	10	78	19	0.0	178	96	69	25	0.8	.30		475	171
05/05/66	5050	2.	77		7.5		2.59	.82	3.39	.49		2.92	2.00	1.95	.40				437	25
1305							36	11	47	7		40	28	27	6					
Y21210.05			5.0	72 F	7.4	821	60	20	62	34	0.0	307	56	51	25	0.8	.30		490	232
06/08/66	5050	3.	57		7.5		2.99	1.64	2.70	.87		5.03	1.16	1.44	.40				460	0
1345							36	20	33	11		63	14	18	5					
Y21210.05			8.2	73 F	7.5	674	56	15	53	18	0.0	200	53	71	17	0.8	.12		405	201
07/13/66	5050	2.	94		8.1		2.79	1.23	2.31	.46		3.28	1.10	2.00	.27				382	37
1435							41	18	34	7		49	17	30	4					
Y21210.05			6.2	83 F	7.3	646	47	15	56	21	0.0	232	53	51	30	0.6	.25		415	179
08/04/66	5050	1.	79		8.0		2.35	1.23	2.44	.54		3.80	1.10	1.44	.48				388	0
1620							36	19	37	8		56	16	21	7					
Warm Creek Near Colton (50B)																				
Y41100.00			7.8	77 F	7.5	934	44	22	94	13	0.0	214	66	114	43	1.1	.62		660	201
10/07/65	5050	12.	93		7.2		2.20	1.81	4.09	.33		3.51	1.37	3.21	.69				503	25
1110							26	21	49	4		40	16	37	8					
Y41100.00			7.8	76 F	6.9	967	68	9.0	109	13	0.0	200	68	123	72	1.0	.62		520	207
11/04/65	5050	12.	92		7.3		3.39	.74	4.74	.33		3.28	1.41	3.47	1.16				562	43
1150							37	8	52	4		35	15	37	12					
Y41100.00			7.2	70 F	7.0	864	57	12	80	13	0.0	264	46	81	43	0.6	.42		465	192
12/06/65	5050	10.	80		7.3		2.84	.99	3.48	.33		4.33	.96	2.28	.69				462	0
1240							37	13	46	4		52	12	28	8					
Y41100.00			10.0	54 F	7.0	596	61	10	47	7.0	0.0	167	67	51	37	0.5	.21		360	193
01/06/66	5050	15.	93		8.0		3.04	.82	2.04	.18		2.74	1.39	1.44	.60				363	56
1020							50	13	34	3		44	23	23	10					
Y41100.00			10.2	57 F	7.4	482	54	7.0	29	5.0	0.0	165	35	29	29.	0.7	.15		263	164
02/04/66	5050	4.	98		7.8		2.69	.58	1.26	.13		2.71	.73	.82	.47				270	28
1015							58	12	27	3		57	15	17	10					
Y41100.00			9.6	55 F	7.0	549	50	13	42	6.0	0.0	181	41	46	31	0.6	.24		380	179
03/04/66	5050	20.	88		7.4		2.50	1.07	1.83	.15		2.97	.85	1.30	.50				319	30
0930							45	19	33	3		53	15	23	9					
Y41100.00			8.2	64 F	7.0	661	55	14	54	7.0	0.0	189	47	63	34	0.8	.31		390	195
04/07/66	5050	10.	86		7.3		2.74	1.15	2.35	.18		3.10	.98	1.78	.55				368	40
0840							43	18	37	3		48	15	28	9					

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS / SUM	TH / NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENT PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
Warm Creek Near Colton (50B), continued																				
Y41100.00			7.6	74 F	7.5	983	48	23	114	14	0.0	179	76	132	71	1.1	.68		619	215
05/05/66	5050	10.	80		7.3		2.40	1.89	4.96	.36		2.94	1.58	3.72	1.14				567	68
0855							25	20	52	4		31	17	40	12					
Y41100.00			7.6	73 F	7.5	931	52	16	104	14	0.0	222	71	106	47	0.9	.58		560	196
06/08/66	5050	10.	87		7.3		2.59	1.32	4.52	.36		3.64	1.48	2.99	.76				520	14
0930							29	15	51	4		41	17	34	9					
Y41100.00			8.2	84 F	7.1	1027	54	18	126	13	0.0	190	73	153	37	1.4	.56		590	209
07/08/66	5050	10.	105		7.2		2.69	1.48	5.48	.33		3.12	1.52	4.31	.60				569	53
0900							27	15	55	3		33	16	45	6					
Y41100.00			7.8	88 F	7.2	842	43	18	95	12	0.0	210	69	96	35	1.1	.50		505	182
08/04/66	5050	9.	104		7.2		2.15	1.48	4.13	.31		3.44	1.44	2.71	.56				473	10
1145							27	18	51	4		42	18	33	7					
Y41100.00			8.2	78 F	7.3	1027	53	21	119	13	0.0	216	80	140	59	0.8	.66		631	219
09/07/66	5050	28.	99		7.3		2.64	1.73	5.18	.33		3.54	1.66	3.95	.95				592	42
0840							27	18	52	3		35	16	39	9					
Santa Ana River at Colton (51F)																				
Y51080.00		6.19	7.0	79 F	7.3	951	49	17	98	13	0.0	268	72	95	37	1.2	.26		540	193
10/07/65	5050	30.	85		7.4		2.45	1.40	4.26	.33		4.40	1.50	2.68	.60				514	0
1150							29	17	50	4		48	16	29	7					
Y51080.00		4.43	7.4	79 F	7.0	950	50	16	98	14	0.0	254	76	89	53	1.1	.44		520	191
11/04/65	5050	38.	90		7.5		2.50	1.32	4.26	.36		4.17	1.58	2.51	.85				522	0
1215							30	16	50	4		46	17	28	9					
Y51080.00		13.00	7.2	74 F	7.2	890	57	12	83	13	0.0	269	53	81	42	0.8	.44		490	192
12/06/65	5050	25.	83		7.3		2.84	.99	3.61	.33		4.41	1.10	2.28	.68				474	0
1300							37	13	46	4		52	13	27	8					
Y51080.00			8.8	60 F	6.9	758	64	11	73	10	0.0	182	74	74	56	0.7	.41		455	205
01/06/66	5050	17.	87		7.9		3.19	.90	3.18	.26		2.98	1.54	2.09	.90				452	56
1100							42	12	42	3		40	21	28	12					
Y51080.00			9.4	60 F	7.3	624	55	10	48	7.0	0.0	199	46	52	33	0.6	.26		337	178
02/04/66	5050	15.	94		7.6		2.74	.82	2.09	.18		3.26	.96	1.47	.53				349	15
1045							47	14	36	3		52	15	24	9					
Y51080.00			8.6	60 F	6.9	672	54	14	56	9.0	0.0	181	51	63	35	0.7	.32		380	192
03/04/66	5050	25.	81		7.5		2.69	1.15	2.44	.23		2.97	1.06	1.78	.56				372	44
1000							41	18	37	4		47	17	28	9					
Y51080.00			8.2	63 F	8.0	548	58	12	37	6.0	0.0	185	43	38	26	0.6	.24		340	194
04/07/66	5050	15.	84		7.3		2.89	.99	1.61	.15		3.03	.89	1.07	.42				311	43
0915							51	18	29	3		56	16	20	8					
Y51080.00			7.0	75 F	7.3	985	48	24	112	14	0.0	185	79	135	74	1.8	.66		590	219
05/05/66	5050	30.	82		7.3		2.40	1.97	4.87	.36		3.03	1.64	3.81	1.19				579	67
0920							25	21	51	4		31	17	39	12					
Y51080.00			7.4	74 F	7.3	952	51	16	104	14	0.0	249	69	104	42	1.0	.60		560	193
06/08/66	5050	30.	86		7.3		2.54	1.32	4.52	.36		4.08	1.44	2.93	.68				524	0
1010							29	15	52	4		45	16	32	7					
Y51080.00			8.4		7.2	1022	55	17	126	13	0.0	171	75	151	60	1.1	.56		610	207
07/08/66	5050	30.			7.3		2.74	1.40	5.48	.33		2.80	1.56	4.26	.97				582	67
1000							28	14	55	3		29	16	44	10					
Y51080.00			8.0	88 F	7.2	861	47	16	98	12	0.0	207	70	102	35	1.2	.56		520	184
08/04/66	5050	25.	107		7.4		2.35	1.32	4.26	.31		3.39	1.46	2.88	.56				483	14
1125							29	16	52	4		41	18	35	7					
Y51080.00			7.6	78 F	7.3	1014	57	18	117	14	0.0	189	80	138	70	0.8	.60		625	216
09/07/66	5050	45.	91		7.6		2.84	1.48	5.09	.36		3.10	1.66	3.89	1.13				588	61
0905							29	15	52	4		32	17	40	12					
Santa Ana River Number One Tailrace Near Mentone (51B)																				
Y51978.00			9.0	60 F	7.4	232	24	7.0	15	2.0	0.0	120	15	6.0	2.0	0.5	.04		150	89
10/06/65	5050	15.	90		7.5		1.20	.58	.65	.05		1.97	.31	.17	.03				130	0
1645							48	23	26	2		79	13	7	1					

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS / SUM	TH / NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENT PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
Santa Ana River Number One Tailrace Near Mentone (51B), continued																				
Y51978.00			9.2	54 F	8.0	252	25	6.0	18	2.0	0.0	124	21	6.0	1.0	0.5	.04		130	87
11/04/65	5050	11.	86		7.7		1.25	.49	.78	.05		2.03	.44	.17	.02				140	0
1030							49	19	30	2		76	17	6	1					
Y51978.00			9.6	53 F	8.0	241	27	4.0	17	3.0	0.0	118	20	5.0	1.0	0.5	.05		155	84
12/06/65	5050	200.	88		7.8		1.35	.33	.74	.08		1.94	.42	.14	.02				135	0
1100							54	13	30	3		77	17	6	1					
Y51978.00			10.0	51 F	7.7	222	22	5.0	16	2.0	0.0	111	14	5.0	1.0	0.5	.04		150	76
01/05/66	5050	150.	89		7.8		1.10	.41	.70	.05		1.82	.29	.14	.02				120	0
1525							49	18	31	2		80	13	6	1					
Y51978.00			11.6	49 F	8.0	302	30	5.0	25	2.0	0.0	137	30	6.0	2.0	0.8	.05		173	96
02/04/66	5050	20.	100		8.0		1.50	.41	1.09	.05		2.25	.62	.17	.03				168	0
0900							49	13	36	2		73	20	6	1					
Y51978.00			8.8	60 F	7.9	338	31	6.0	32	3.0	0.0	144	39	7.0	2.0	0.9	.08		190	102
03/03/66	5050	40.	83		7.8		1.55	.49	1.39	.08		2.36	.81	.20	.03				192	0
1600							44	14	40	2		69	24	6	1					
Y51978.00			9.2	57 F	7.8	405	33	7.0	42	3.0	0.0	144	68	8.0	3.2	1.4	.06		260	112
04/07/66	5050	5.	87		7.3		1.65	.58	1.83	.08		2.36	1.41	.23	.05				236	0
0730							40	14	44	2		58	35	6	1					
Y51978.00			9.6	63 F	7.8	419	35	6.0	45	3.0	0.0	146	76	5.0	2.7	1.3	.10		250	112
05/05/66	5050	5.	96		8.2		1.75	.49	1.96	.08		2.39	1.58	.14	.04				246	0
0740							41	11	46	2		58	38	3	1					
Y51978.00			8.8	64 F	8.1	435	34	7.0	46	3.0	0.0	144	80	6.0	1.0	1.5	.10		260	114
06/08/66	5050	3.	92		7.7		1.70	.58	2.00	.08		2.36	1.66	.17	.02				249	0
0810							39	13	46	2		56	39	4						
Y51978.00			9.2	67 F	7.8	459	38	6.0	50	3.0	0.0	142	96	11	1.5	1.5	.10		280	120
07/08/66	5050	2.	99		7.9		1.90	.49	2.18	.08		2.33	2.00	.31	.02				277	3
0800							41	11	47	2		50	43	7						
Y51978.00			10.2	72 F	7.7	200	22	4.0	12	2.0	0.0	103	11	4.0	0.0	0.4	.01		103	72
08/03/66	5050	150.	116		7.8		1.10	.33	.52	.05		1.69	.23	.11					106	0
1645							55	17	26	3		83	11	5						
Y51978.00			9.0	60 F	7.6	220	24	5.0	14	2.0	0.0	117	12	4.0	0.0	0.4	.04		130	81
09/06/66	5050		89		7.9		1.20	.41	.61	.05		1.92	.25	.11					119	0
1315							53	18	27	2		84	11	5						
Santa Ana River Near Norco (51E)																				
Y61225.00			3.6	76 F	7.6	1477	113	29	165	10	0.0	368	171	198	20	1.4	.80		920	401
10/07/65	5050	20.	43		7.5		5.64	2.38	7.18	.26		6.04	3.56	5.58	.32				889	99
1510							36	15	46	2		39	23	36	2					
Y61225.00			4.4	69 F	7.6	1295	106	26	130	8.0	0.0	345	140	155	16	1.1	.42		770	372
11/04/65	5050	20.	49		7.6		5.29	2.14	5.66	.20		5.66	2.91	4.37	.26				752	89
1500							40	16	43	2		43	22	33	2					
Y61225.00			4.4	66 F	7.1	1340	118	26	126	8.0	0.0	320	153	164	35	0.9	.46		830	402
12/06/65	5050	150.	47		7.4		5.89	2.14	5.48	.20		5.25	3.18	4.62	.56				788	139
1525							43	16	40	1		39	23	34	4					
Y61225.00			6.6	61 F	7.0	1346	114	27	132	10	0.0	315	149	169	53	0.9	.43		815	396
01/06/66	5050	80.	66		7.6		5.69	2.22	5.74	.26		5.17	3.10	4.77	.85				810	137
1330							41	16	41	2		37	22	34	6					
Y61225.00			6.2	64 F	7.2	1311	106	27	123	8.0	0.0	312	132	160	48	1.2	.58		770	376
02/04/66	5050	30.	65		7.6		5.29	2.22	5.35	.20		5.12	2.75	4.51	.77				759	120
1250							41	17	41	2		39	21	34	6					
Y61225.00			5.8	62 F	7.5	1245	98	24	128	9.0	0.0	285	128	160	50	1.4	.60		755	343
03/04/66	5050	60.	59		7.6		4.89	1.97	5.57	.23		4.67	2.66	4.51	.81				739	110
1155							39	16	44	2		37	21	36	6					
Y61225.00			5.4	66 F	8.2	1227	100	25	120	9.0	0.0	283	133	152	45	1.0	.52		780	353
04/07/66	5050	35.	58		7.3		4.99	2.06	5.22	.23		4.64	2.77	4.29	.72				724	121
1100							40	16	42	2		37	22	35	6					
Y61225.00			6.6	75 F	7.8	1239	102	26	122	8.0	0.0	299	132	157	42	0.9	.48		808	362
05/05/66	5050	25.	76		7.6		5.09	2.14	5.31	.20		4.90	2.75	4.43	.68				737	117
1100							40	17	42	2		38	22	35	5					

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENT PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS SUM	TH NCH
Santa Ana River Near Norco (51E), continued																				
Y61225.00			5.8	73 F	7.3	1183	96	23	116	9.0	0.0	273	118	143	45	1.0	.48		755	334
06/08/66	5050	30.	67		7.5		4.79	1.89	5.05	.23		4.48	2.45	4.03	.72				685	110
1145							40	16	42	2		38	21	35	6					
Y61225.00			7.0	80 F	7.4	1239	93	27	120	9.0	0.0	294	122	159	40	1.1	.52		760	343
07/08/66	5050	25.	86		7.3		4.64	2.22	5.22	.23		4.82	2.54	4.48	.64				716	102
1230							38	18	42	2		39	20	36	5					
Y61225.00			7.4	90 F	7.7	1212	104	26	120	7.0	0.0	327	128	148	41	1.0	.50		790	367
08/04/66	5050	23.	101		7.4		5.19	2.14	5.22	.18		5.36	2.66	4.17	.66				736	99
1530							41	17	41	1		42	21	32	5					
Y61225.00			2.0	75 F	7.5	1224	92	27	126	8.0	0.0	311	119	150	35	1.1	.50		749	341
09/07/66	5050	18.	23		7.8		4.59	2.22	5.48	.20		5.10	2.48	4.23	.56				711	86
1110							37	18	44	2		41	20	34	5					
Santa Ana River Near Arlington (51)																				
Y61400.00		1.60	8.2	77 F	7.9	1057	115	27	75	5.0	0.0	329	124	104	23	0.6	.14		670	398
10/07/65	5050	18.	98		7.6		5.74	2.22	3.26	.13		5.40	2.58	2.93	.37				635	128
1310							51	20	29	1		48	23	26	3					
Y61400.00		1.60	8.4	68 F	7.9	1066	116	25	78	5.0	0.0	325	125	104	29	0.6	.14		640	393
11/04/65	5050	18.0	92		8.0		5.79	2.06	3.39	.13		5.33	2.60	2.93	.47				642	126
1410							51	18	30	1		47	23	26	4					
Y61400.00		3.21	7.0	69 F	7.9	1307	139	30	102	7.0	0.0	370	143	152	26	0.7	.13		832	471
12/06/65	5050	23.0	77		7.8		6.94	2.47	4.44	.18		6.07	2.97	4.29	.42				781	167
1440							49	18	32	1		44	22	31	3					
Y61400.00		3.38	7.6	64 F	7.3	1286	132	29	103	8.0	0.0	361	138	147	43	0.9	.20		805	449
01/06/66	5050	63.0	79		8.0		6.59	2.38	4.48	.20		5.92	2.87	4.15	.69				778	153
1215							48	17	33	1		43	21	30	5					
Y61400.00		3.52	9.0	64 F	8.0	1264	130	29	97	6.0	0.0	367	131	143	42	0.8	.16		757	444
02/04/66	5050	41.0	94		8.0		6.49	2.38	4.22	.15		6.02	2.72	4.03	.68				759	143
1145							49	18	32	1		45	20	30	5					
Y61400.00		3.65	10.0	57 F	8.1	1229	125	28	93	6.0	0.0	358	125	137	37	0.8	.20		737	427
03/04/66	5050	21.0	95		8.0		6.24	2.30	4.05	.15		5.87	2.60	3.86	.60				727	134
1120							49	18	32	1		45	20	30	5					
Y61400.00		3.72	8.2	64 F	8.2	1151	122	27	90	5.0	0.0	354	120	129	26	0.8	.18		750	416
04/07/66	5050	22.0	84		7.4		6.09	2.22	3.92	.13		5.81	2.50	3.64	.42				693	125
1015							49	18	32	1		47	20	29	3					
Y61400.00		3.68	8.6	68 F	8.0	1119	117	27	83	6.0	0.0	344	114	118	24	0.7	.16		680	403
05/05/66	5050	20.0	93		7.5		5.84	2.22	3.61	.15		5.64	2.37	3.33	.39				658	121
1015							49	19	31	1		48	20	28	3					
Y61400.00		3.43	9.2	70 F	8.3	1112	115	26	86	5.0	2.0	329	110	120	28	0.7	.14		720	394
06/08/66	5050	18.0	103		7.7		5.74	2.14	3.74	.13	.07	5.40	2.29	3.38	.45				654	121
1120							49	18	32	1	1	47	20	29	4					
Y61400.00		3.27	10.2	80 F	8.1	1052	105	25	88	5.0	0.0	309	106	117	25	0.7	.15		675	365
07/08/66	5050	11.0	126		8.1		5.24	2.06	3.83	.13		5.07	2.20	3.30	.41				624	112
1130							47	18	34	1		46	20	30	4					
Y61400.00		3.17	9.4	89 F	8.0	1037	104	25	84	5.0	0.0	317	103	111	26	0.7	.15		690	363
08/04/66	5050	14.0	127		8.0		5.19	2.06	3.65	.13		5.20	2.14	3.13	.42				614	103
1450							47	19	33	1		48	20	29	4					
Y61400.00		3.20	9.6	68 F	8.2	1091	113	26	86	5.0	0.0	344	106	116	29	0.8	.16		704	389
09/07/66	5050	22.0	105		8.0		5.64	2.14	3.74	.13		5.64	2.20	3.27	.47				651	107
0945							48	18	32	1		49	19	28	4					
San Timoteo Creek at Waterman Avenue Near San Bernardino (51G)																				
Y71145.00		1.79	8.2	67 F	7.4	685	48	15	73	7.0	0.0	221	76	48	33	1.3	.19		530	182
10/07/65	5050	2.4	89		7.6		2.40	1.23	3.18	.18		3.62	1.58	1.35	.53				410	1
0910							34	18	45	3		51	22	19	7					
Y71145.00		1.70	9.6	68 F	7.1	804	48	19	90	11	0.0	256	72	63	30	1.0	.28		480	198
11/04/65	5050	1.4	105		8.1		2.40	1.56	3.92	.28		4.20	1.50	1.78	.48				460	0
0900							29	19	48	3		53	19	22	6					

TABLE 0-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER													
							MILLIEQUIVALENT PER LITER													
							PERCENT REACTANCE VALUE													
																			MILLIGRAMS PER LITER	
San Timoteo Creek at Waterman Avenue Near San Bernardino (51G), continued																				
Y71145.00			7.0	73 F	6.7	761	33	12	107	8.0	0.0	153	100	62	58	1.4	.40		458	132
12/06/65	5050	2.5	81		7.6		1.65	.99	4.65	.20		2.51	2.08	1.75	.93				457	7
1210							22	13	62	3		35	29	24	13					
Y71145.00			9.6	59 F	7.2	978	52	20	116	11	0.0	340	92	77	24	1.2	.41		565	212
01/06/66	5050	1.5	95		8.0		2.59	1.64	5.05	.28		5.58	1.91	2.17	.39				560	0
0950							27	17	53	3		56	19	22	4					
Y71145.00		.23	9.4	63 F	7.3	1043	47	19	127	12	0.0	342	80	101	20	1.3	.38		570	196
02/04/66	5050	1.	97		8.0		2.35	1.56	5.52	.31		5.61	1.66	2.85	.32				575	0
0945							24	16	57	3		54	16	27	3					
Y71145.00			8.6	57 F	7.4	324	35	6.0	24	3.0	0.0	153	25	10	3.0	0.6	.05		190	112
04/07/66	5050	1.	83		7.7		1.75	.49	1.04	.08		2.51	.52	.28	.05				182	0
0805							52	15	31	2		75	15	8	1					
Y71145.00			7.0	65 F	7.8	662	64	18	52	6.0	0.0	250	71	31	29	0.9	.18		430	234
05/05/66	5050	.5	74		8.0		3.19	1.48	2.26	.15		4.10	1.48	.87	.47				395	29
0830							45	21	32	2		59	21	13	7					
Y71145.00			8.8	67 F	8.3	361	33	7.0	32	4.0	2.0	149	29	13	6.0	0.8	.06		200	112
06/08/66	5050	1.5	95		8.1		1.65	.58	1.39	.10	.07	2.44	.60	.37	.10				200	0
0910							44	16	37	3	2	68	17	10	3					
Y71145.00			8.8	74 F	8.1	573	50	15	50	4.0	0.0	215	62	31	20	1.0	.11		340	187
07/08/66	5050	3.	102		8.3		2.50	1.23	2.18	.10		3.53	1.29	.87	.32				338	10
0845							42	20	36	2		59	21	14	5					
Y71145.00			9.0	91 F	9.3	634	24	13	92	10	24	137	76	61	7.4	1.0	.16		370	114
08/04/66	5050	1.	125		7.8		1.20	1.07	4.00	.26	.80	2.25	1.58	1.72	.12				376	0
1200							18	16	61	4	12	35	24	27	2					
Y71145.00			11.2	84 F	9.0	501	49	13	36	3.0	17	113	87	23	16	0.8	.15		330	176
09/06/66	5050	.5	144		8.4		2.45	1.07	1.57	.08	.57	1.85	1.81	.65	.27				301	55
1400							47	21	30	2	11	36	35	13	5					
Lake Elsinore at State Park (89)																				
Y82200.00			12.0	68 F	8.2	7102	59	66	1526	40	0.0	547	1213	1454	20	1.6	3.30		4710	419
11/10/65	5050		131		8.5		2.94	5.43	66.38	1.02		8.97	25.23	41.00	.32				4651	0
1500							4	7	88	1		12	33	54						
Y82200.00			10.6	53 F	8.5	5612	47	51	1164	29	8.0	424	889	1109	16	1.3	2.50		3602	327
01/13/66	5050		96		8.4		2.35	4.19	50.63	.74	.27	6.95	18.49	31.27	.26				3525	0
1535							4	7	87	1		12	32	55						
Y82200.00			11.6	68 F	8.5	3828	60	42	716	19	4.0	323	632	694	16	1.5	1.50		2370	322
03/10/66	5050		126		8.5		2.99	3.45	31.15	.49	.13	5.30	13.15	19.57	.26				2344	51
1445							8	9	82	1		14	34	51	1					
Y82200.00			9.2	71 F	7.6	3747	43	42	708	19	0.0	285	646	677	7.4	1.1	1.44		2330	280
05/19/66	5050		104		8.4		2.15	3.45	30.80	.49		4.67	13.44	19.09	.12				2285	47
1200							6	9	83	1		13	36	51						
Y82200.00			7.4	85 F	8.0	4484	53	44	900	25	0.0	371	767	840	10	1.3	1.70		2800	313
07/20/66	5050		96		8.4		2.64	3.62	39.15	.64		6.08	15.95	23.69	.16				2824	9
1415							6	8	85	1		13	35	52						
Y82200.00			5.6	73 F	8.4	5089	60	49	1040	27	11	441	826	975	8.7	1.4	2.20		3270	351
09/14/66	5050		64		8.4		2.99	4.03	45.24	.69	.37	7.23	17.18	27.50	.14				3216	0
1755							6	8	85	1	1	14	33	52						
Ventura River Near Ventura (61)																				
Z11100.00		5.34	9.2	57 F	7.9	1292	146	41	95	3.0	0.0	337	311	98	3.0	0.8	.72		900	533
10/05/65	5050		89		7.3		7.29	3.37	4.13	.08		5.53	6.47	2.76	.05				864	257
0910							49	23	28	1		37	44	19						
Z11100.00		6.85	8.4	62 F	7.9	1203	149	35	70	4.0	0.0	300	298	72	17	0.7	.46		810	516
12/02/65	5050	52.0	86		8.1		7.44	2.88	3.05	.10		4.92	6.20	2.03	.27				793	270
1215							55	21	23	1		37	46	15	2					
Z11100.00		8.11	10.8	51 F	7.9	1280	149	41	80	4.0	0.0	307	329	79	22	0.7	.50		890	541
01/03/66	5050	54.5	96		7.9		7.44	3.37	3.48	.10		5.03	6.84	2.23	.35				856	289
1015							52	23	24	1		35	47	15	2					
Z11100.00		7.82	12.8	55 F	8.0	1209	141	43	68	3.0	0.0	305	306	63	23	0.8	.52		830	529
02/01/66	5050	30.0	120		8.1		7.04	3.53	2.96	.08		5.00	6.36	1.78	.37				798	279
1035							52	26	22	1		37	47	13	3					

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER DATE TIME	LAB	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENT PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS SUM	TH NCH
Ventura River Near Ventura (61), continued																				
Z11100.00		7.65	11.2	55 F	7.9	1144	132	36	65	3.0	0.0	275	284	55	22	0.7	.55		930	478
03/01/66	5050	18.0	106		8.1		6.59	2.96	2.83	.08		4.51	5.91	1.55	.35				733	252
0945							53	24	23	1		37	48	13	3					
Z11100.00		7.62	10.0	61 F	7.8	1100	136	36	63	3.0	0.0	300	280	52	26	0.7	.52		790	488
04/04/66	5050	10.0	101		7.9		6.79	2.96	2.74	.08		4.92	5.82	1.47	.42				744	242
0925							54	24	22	1		39	46	12	3					
Z11100.00		7.81	10.6	65 F	7.9	1059	123	35	56	2.0	0.0	270	264	48	15	0.7	.50		728	451
05/02/66	5050	12.0	114		8.0		6.14	2.88	2.44	.05		4.43	5.49	1.35	.24				677	230
0855							53	25	21			38	48	12	2					
Z11100.00		7.51	11.6	69 F	7.9	1055	123	38	62	2.0	0.0	261	285	48	10	0.7	.52		765	463
06/01/66	5050	4.1	128		8.0		6.14	3.12	2.70	.05		4.28	5.93	1.35	.17				698	249
1105							51	26	22			36	51	12	1					
Z11100.00		7.45	11.0	72 F	7.9	1055	126	34	62	3.0	0.0	259	285	48	7.0	0.6	.58		750	454
07/05/66	5050	4.1	125		7.5		6.29	2.79	2.70	.08		4.25	5.93	1.35	.11				693	242
1030							53	24	23	1		37	51	12	1					
Z11100.00		7.42	10.2	73 F	7.8	1087	129	35	62	3.0	0.0	285	278	48	6.5	0.8	.54		756	466
08/01/66	5050	4.1	117		7.8		6.44	2.88	2.70	.08		4.67	5.78	1.35	.10				702	233
1100							53	24	22	1		39	49	11	1					
Z11100.00		7.57	7.8	69 F	7.8	1067	129	34	61	3.0	0.0	292	270	47	6.3	0.7	.58		740	462
09/05/66	5050	1.9	96		7.8		6.44	2.79	2.65	.08		4.79	5.62	1.33	.10				695	222
0955							54	23	22	1		40	47	11	1					
Matilija Creek Above Dam (45B)																				
Z15500.00		2.41	9.8	68 F	7.8	1245	124	34	100	4.0	0.0	259	276	117	0.0	1.8	3.20		840	449
10/05/65	5050	1.4	107		7.3		6.19	2.79	4.35	.10		4.25	5.74	3.30					787	237
1040							46	21	32	1		32	43	25						
Z15500.00		2.44	9.2	69 F	7.8	1250	113	32	109	4.0	0.0	231	263	128	0.0	1.6	3.30		8370	414
11/01/65	5050	1.8	101		8.1		5.64	2.63	4.74	.10		3.79	5.47	3.61					767	224
1100							43	20	36	1		29	43	28						
Z15500.00		3.06	9.2	57 F	7.9	864	116	29	34	2.0	0.0	243	260	10	2.0	0.7	.28		580	409
12/02/65	5050	71.0	89		8.0		5.79	2.38	1.48	.05		3.99	5.41	.28	.03				573	209
1105							60	25	15	1		41	56	3						
Z15500.00			10.2	52 F	8.1	790	110	28	27	2.0	0.0	240	226	9.0	0.0	0.5	.20		542	390
01/03/66	5050	231.	92		8.3		5.49	2.30	1.17	.05		3.94	4.70	.25					520	193
1120							61	26	13	1		44	53	3						
Z15500.00			10.8	54 F	7.8	871	119	32	32	2.0	0.0	244	275	13	0.0	0.7	.44		600	429
02/01/66	5050	150.	98		8.2		5.94	2.63	1.39	.05		4.00	5.72	.37					594	229
1130							59	26	14			40	57	4						
Z15500.00		3.14	9.2	58 F	8.1	917	123	32	37	2.0	0.0	245	283	13	0.0	0.7	.38		632	439
03/01/66	5050	35.0	89		8.1		6.14	2.63	1.61	.05		4.02	5.89	.37					61[illegible]	238
1230							59	25	15			39	57	4						
Z15500.00		3.03	9.2	62 F	7.8	912	115	33	42	2.0	0.0	224	294	19	1.0	0.8	.52		640	423
04/05/66	5050	22.0	94		8.2		5.74	2.71	1.83	.05		3.67	6.12	.54	.02				617	239
1040							56	26	18			35	59	5						
Z15500.00		2.92	9.2	66 F	8.0	939	115	33	43	2.0	0.0	217	293	22	0.0	0.8	.65		653	423
05/02/66	5050	12.0	99		8.2		5.74	2.71	1.87	.05		3.56	6.09	.62					616	245
0940							55	26	18			35	59	6						
Z15500.00		2.98	9.6	66 F	7.8	981	118	32	54	3.0	0.0	224	293	30	0.0	1.0	.98		680	426
06/01/66	5050	9.9			7.8		5.89	2.63	2.35	.08		3.67	6.09	.85					642	243
0950							54	24	21	1		35	57	8						
Z15500.00		2.70	8.6	71 F	8.0	1015	118	31	63	3.0	0.0	222	300	44	0.0	1.1	1.40		700	422
07/05/66	5050	5.2	97		7.5		5.89	2.55	2.74	.08		3.64	6.24	1.24					670	240
0915							52	23	24	1		33	56	11						
Z15500.00		2.64	9.0	79 F	7.8	1050	116	31	72	3.0	0.0	228	292	57	0.4	1.4	1.85		725	417
08/01/66	5050	3.4	110		7.6		5.79	2.55	3.13	.08		3.74	6.07	1.61	.01				686	230
1200							50	22	27	1		33	53	14						
Z15500.00		2.63	9.6	75 F	7.9	1081	109	33	77	3.0	0.0	226	285	69	0.0	1.4	2.00		748	408
09/05/66	5050	3.0	112		8.2		5.44	2.71	3.35	.08		3.71	5.93	1.95					690	222
1055							47	23	29	1		32	51	17						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER DATE TIME	LAB	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
							MILLIEQUIVALENT PER LITER													
							PERCENT REACTANCE VALUE													
Santa Paula Creek Near Santa Paula (46E)																				
Z21300.00		.39	12.6	64 F	7.7	1404	100	42	158	3.0	0.0	350	309	112	2.0	0.7	.76		920	422
10/05/65	5050	.8	132		7.7		4.99	3.45	6.87	.08		5.74	6.43	3.16	.03				899	135
1300							32	22	45	1		37	42	21						
Z21300.00		1.33	11.8	60 F	8.0	1359	79	43	158	3.0	0.0	327	292	105	4.0	0.6	.80		880	374
11/02/65	5050	.4	111		8.1		3.94	3.53	6.87	.08		5.36	6.07	2.96	.06				846	106
1240							27	24	48	1		37	42	20						
Z21300.00		2.36	9.4	58 F	8.0	737	94	22	35	2.0	0.0	201	201	20	3.0	0.5	.12		485	325
12/02/65	5050	67.0	92		7.8		4.69	1.81	1.52	.05		3.30	4.18	.56	.05				476	160
							58	22	19	1		41	52	7	1					
Z21300.00		2.62	10.4	52 F	7.9	643	80	20	28	2.0	0.0	177	173	13	2.0	0.4	.08		420	282
01/04/66	5050	146.	94		8.0		3.99	1.64	1.22	.05		2.90	3.60	.37	.03				405	137
1420							58	24	18	1		42	52	5						
Z21300.00		2.23	11.6	52 F	8.1	803	100	27	37	1.0	0.0	223	217	22	2.0	0.6	.16		625	361
02/02/66	5050	51.0	105		8.2		4.99	2.22	1.61	.03		3.66	4.51	.62	.03				516	178
1025							56	25	18			41	51	7						
Z21300.00		2.49	10.2	55 F	8.1	781	96	25	39	1.0	0.0	219	207	21	1.0	0.5	.15		524	343
03/02/66	5050	30.0			8.2		4.79	2.06	1.70	.03		3.59	4.31	.59	.02				498	163
1145							56	24	20			42	51	7						
Z21300.00		2.39			8.1	814	93	24	42	0.0	0.0	239	197	23	0.0	0.3	.12		618	331
03/18/66	5867	15.0					4.64	1.97	1.83			3.92	4.10	.65					497	135
0850							55	23	22			45	47	7						
Z21300.00		2.29	9.4	70 F	8.0	821	95	27	46	2.0	0.0	220	222	27	3.2	0.6	.18		560	348
04/05/66	5050	8.0	105		8.4		4.74	2.22	2.00	.05		3.61	4.62	.76	.05				531	168
1300							53	25	22	1		40	51	8	1					
Z21300.00		2.24	9.8	63 F	8.1	869	94	27	55	2.0	0.0	231	220	34	0.0	0.6	.24		616	346
05/03/66	5050	9.4	100		8.1		4.69	2.22	2.39	.05		3.79	4.58	.96					546	156
0750							50	24	26	1		41	49	10						
Z21300.00		2.21	9.8	63 F	8.0	876	98	28	57	2.0	0.0	239	228	32	0.3	0.6	.26		610	360
06/02/66	5050	7.6	101		7.5		4.89	2.30	2.48	.05		3.92	4.74	.90					563	164
0850							50	24	26	1		41	50	9						
Z21300.00		2.22			8.1	909	85	27	67	0.0	0.0	229	223	40	0.0	0.4	.29		671	323
06/13/66	5867	5.0					4.24	2.22	2.91			3.76	4.64	1.13					555	135
1150							45	24	31			39	49	12						
Z21300.00		2.18	10.4	68 F	8.4	973	107	29	74	2.0	10	259	242	43	0.3	0.6	.42		675	386
07/06/66	5050	1.8	114		7.7		5.34	2.38	3.22	.05	.33	4.25	5.03	1.21					635	157
0900							49	22	29		3	39	46	11						
Z21300.00		2.16	10.2	74 F	7.9	1015	100	31	79	2.0	0.0	266	249	54	0.5	0.8	.40		700	377
08/02/66	5050	2.4	119		7.8		4.99	2.55	3.44	.05		4.36	5.18	1.52	.01				647	159
1045							45	23	31			39	47	14						
Z21300.00		2.18	12.4	75 F	8.1	1018	88	32	90	2.0	0.0	234	254	61	0.5	0.6	.46		704	351
09/05/66	5050	2.4	145		8.2		4.39	2.63	3.92	.05		3.84	5.28	1.72	.01				643	159
1150							40	24	36			35	49	16						
Santa Clara River Near Santa Paula (46A)																				
Z21360.10			9.4	65 F	7.7	2353	245	104	205	8.0	0.0	337	1049	84	3.0	1.4	1.20		2000	1040
10/05/65	5050	10.	99		7.7		12.23	8.55	8.92	.20		5.53	21.82	2.37	.05				1866	763
1400							41	29	30	1		19	73	8						
Z21360.10			11.4	66 F	8.1	2049	205	93	160	7.0	0.0	336	831	79	8.0	1.2	.95		1640	894
11/02/65	5050	10.	122		8.1		10.23	7.64	6.96	.18		5.51	17.28	2.23	.13				1550	618
1310							41	31	28	1		22	69	9	1					
Z21360.10			9.0	62 F	8.1	1110	122	40	66	3.0	0.0	249	357	28	3.0	0.9	.52		730	469
12/02/65	5050	1500.	92		8.1		6.09	3.29	2.87	.08		4.08	7.43	.79	.05				742	265
1450							49	27	23	1		33	60	6						
Z21360.10			10.4	54 F	8.0	1019	120	36	58	3.0	0.0	236	323	24	3.0	0.8	1.05		727	448
01/04/66	5050	800.	96		8.3		5.99	2.96	2.52	.08		3.87	6.72	.68	.05				684	254
1500							52	26	22	1		34	59	6						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS / SUM	TH / NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
							MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE													
Santa Clara River Near Santa Paula (46A), continued																				
Z21360.10			11.0	53 F	7.9	1189	134	45	72	3.0	0.0	264	395	34	5.0	1.2	.72		850	520
02/02/66	5050	250.	101		8.0		6.69	3.70	3.13	.08		4.33	8.22	.96	.08				819	303
1100							49	27	23	1		32	60	7	1					
Z21360.10			10.2	59 F	8.1	1432	155	53	100	4.0	0.0	265	505	47	6.0	1.2	.76		1076	605
03/02/66	5050	80.	101		8.2		7.73	4.36	4.35	.10		4.35	10.50	1.33	.10				1002	387
1215							47	26	26	1		27	64	8	1					
Z21360.10			13.2	75 F	7.7	1887	183	77	157	6.0	0.0	249	780	73	11	1.2	1.00		1500	774
04/05/66	5050	60.	154		8.3		9.13	6.33	6.83	.15		4.08	16.22	2.06	.18				1411	569
1340							41	28	30	1		18	72	9	1					
Z21360.10			9.0	65 F	7.8	1684	173	64	120	6.0	0.0	275	626	59	7.4	1.2	.88		1310	695
05/03/66	5050	50.	95		7.9		8.63	5.26	5.22	.15		4.51	13.02	1.66	.12				1192	469
0840							45	27	27	1		23	67	9	1					
Z21360.10			10.6	68 F	8.0	1876	197	77	143	6.0	0.0	293	746	65	10	1.3	.96		1510	809
06/02/66	5050	70.	116		7.5		9.83	6.33	6.22	.15		4.81	15.52	1.83	.16				1390	568
0925							44	28	28	1		22	70	8	1					
Z21360.10			8.8	68 F	7.9	2422	252	101	208	8.0	0.0	347	1023	88	15	1.6	1.10		1843	1044
08/02/66	5050	60.	96		8.0		12.57	8.30	9.05	.20		5.69	21.28	2.48	.24				1868	760
1120							42	28	30	1		19	72	8	1					
Z21360.10			12.4	68 F	7.9	1858	185	78	151	6.0	0.0	278	738	68	6.0	1.2	.96		1516	783
09/05/66	5050	30.	135		8.2		9.23	6.41	6.57	.15		4.56	15.35	1.92	.10				1370	554
1220							41	29	29	1		21	70	9						
Sespe Creek Near Fillmore (46D)																				
Z22150.00		2.38	11.8	76 F	7.9	1294	122	38	120	4.0	0.0	146	432	112	7.0	1.5	1.80		950	461
10/05/65	5050	.2	140		7.5		6.09	3.12	5.22	.10		2.39	8.99	3.16	.11				910	341
1500							42	21	36	1		16	61	22	1					
Z22150.00		2.38	12.2	70 F	8.1	1410	128	35	127	4.0	0.0	162	414	124	1.0	1.3	2.05		960	464
11/02/65	5050	.1	136		8.3		6.39	2.88	5.52	.10		2.66	8.61	3.50	.02				916	331
1430							43	19	37	1		18	58	24						
Z22150.00			9.8	54 F	8.0	1010	135	31	45	3.0	0.0	233	332	16	2.0	11	.35		690	465
12/02/65	5050	1000.	91		8.1		6.74	2.55	1.96	.08		3.82	6.91	.45	.03				690	274
1540							59	23	17	1		34	62	4						
Z22150.00		4.87	11.2	48 F	8.1	951	137	29	38	3.0	0.0	231	326	12	2.0	1.2	.28		700	461
01/04/66	5050	526.	96		8.5		6.84	2.38	1.65	.08		3.79	6.78	.34	.03				662	272
1535							62	22	15	1		35	62	3						
Z22150.00		4.16	12.4	49 F	7.9	951	119	34	47	2.0	0.0	223	309	21	0.0	1.2	.52		660	437
02/02/66	5050	165.	107		8.2		5.94	2.79	2.04	.05		3.66	6.43	.59					643	254
1150							55	26	19			34	60	6						
Z22150.00		4.04	10.2	54 F	8.3	977	121	32	53	2.0	0.0	230	314	20	0.0	1.2	.51		692	434
03/02/66	5050	91.	94		8.3		6.04	2.63	2.31	.05		3.77	6.53	.56					656	245
1340							55	24	21			35	60	5						
Z22150.00		3.89			8.2	926	100	30	56	0.0	0.0	232	262	27	0.0	0.9	.70		707	373
03/18/66	5867	65.					4.99	2.47	2.44			3.80	5.45	.76					590	183
0945							50	25	25			38	54	8						
Z22150.00		3.49	8.8	66 F	7.9	923	103	30	60	3.0	0.0	190	303	28	3.6	1.2	.76		650	381
04/05/66	5050	18.	94		8.3		5.14	2.47	2.61	.08		3.12	6.30	.79	.06				626	225
1420							50	24	25	1		30	61	8	1					
Z22150.00			9.6	68 F	8.0	998	109	32	67	3.0	0.0	190	333	33	0..	1.4	1.04		665	404
05/03/66	5050	22.	104		8.2		5.44	2.63	2.91	.08		3.12	6.93	.93	.01				673	248
0920							49	24	26	1		28	63	8						
Z22150.00			11.6	70 F	7.8	988	101	29	71	3.0	0.0	170	315	45	0.2	1.4	1.14		693	371
06/02/66	5050	15.	130		7.9		5.04	2.38	3.09	.08		2.79	6.55	1.27					650	232
1105							48	22	29	1		26	62	12						
Z22150.00		3.09			7.9	1028	94	29	86	0.0	0.0	175	315	51	0.0	1.3	1.27		750	354
06/13/66	5867	10.					4.69	2.38	3.74			2.87	6.55	1.44					663	210
1110							43	22	35			26	60	13						
Z22150.00			12.4	81 F	7.8	1558	201	47	100	5.0	0.0	203	658	49	0.3	1.5	1.00		1215	695
07/06/66	5050	.6	155		7.5		10.03	3.86	4.35	.13		3.33	13.69	1.38					1162	528
1030							55	21	24	1		18	74	8						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER												MILLIGRAMS PER LITER	
							MILLIEQUIVALENT PER LITER													
							PERCENT REACTANCE VALUE													
Sespe Creek Near Fillmore (46D), continued																				
Z22150.00			11.0	79 F	7.8	1717	216	58	113	5.0	0.0	203	730	56	0.8	1.5	1.04		1377	778
08/02/66	5050	.2	134		7.6		10.78	4.77	4.92	.13		3.33	15.18	1.58	.01				1281	611
1200							52	23	24	1		17	76	8						
Z22150.00			11.8	84 F	8.1	1621	185	53	120	5.0	0.0	147	689	65	0.0	1.4	1.14		1290	680
09/05/66	5050	.2	151		8.3		9.23	4.36	5.22	.13		2.41	14.33	1.83					1192	559
1315							49	23	28	1		13	77	10						
Piru Creek Below Santa Felicia Dam (46H)																				
Z23240.00		1.55	9.0	67 F	8.0	1387	155	58	92	7.0	0.0	246	551	38	5.0	1.4	1.60		1090	626
10/05/65	5050	6.8	98		7.5		7.73	4.77	4.00	.18		4.03	11.46	1.07	.08				1030	424
1620							46	29	24	1		24	69	6						
Z23240.00		1.58	10.6	63 F	7.6	1451	148	59	98	7.0	0.0	231	559	41	2.0	1.3	2.00		1040	612
11/02/65	5050	7.8	109		8.3		7.39	4.85	4.26	.18		3.79	11.63	1.16	.03				1030	423
1520							44	29	26	1		23	70	7						
Z23240.00		1.37	9.8	53 F	7.6	811	88	28	42	4.0	0.0	162	266	13	3.0	0.9	.72		520	335
12/02/65	5050	2.4	90		7.6		4.39	2.30	1.83	.10		2.66	5.53	.37	.05				525	202
1620							51	27	21	1		31	64	4	1					
Z23240.00		2.07	11.2	48 F	7.8	809	91	29	41	4.0	0.0	162	280	10	4.0	0.9	.56		565	346
01/04/66	5050	40.0	96		8.0		4.54	2.38	1.78	.10		2.66	5.82	.28	.06				540	213
1615							52	27	20	1		30	66	3	1					
Z23240.00		2.06	12.2	49 F	7.5	871	96	33	45	4.0	0.0	177	294	19	3.0	1.2	.72		610	375
02/02/66	5050	38.0	107		8.1		4.79	2.71	1.96	.10		2.90	6.12	.54	.05				583	230
1240							50	28	21	1		30	64	6	1					
Z23240.00		2.06	11.8	47 F	8.0	846	92	32	44	4.0	0.0	168	287	13	3.0	1.1	.66		588	361
03/02/66	5050	38.0	100		8.0		4.59	2.63	1.91	.10		2.76	5.97	.37	.05				559	223
1420							50	28	21	1		30	65	4	1					
Z23240.00		2.07			7.9	842	84	31	44	0.0	0.0	170	270	17	0.0	0.7	.79		616	337
03/18/66	5867	40.0					4.19	2.55	1.91			2.79	5.62	.48					531	198
1145							48	29	22			31	63	5						
Z23240.00		2.51	10.8	52 F	8.2	828	94	30	43	4.0	0.0	166	288	13	2.4	0.9	.84		590	358
04/05/66	5050	103.	98		8.1		4.69	2.47	1.87	.10		2.72	5.99	.37	.04				557	222
1505							51	27	20	1		30	66	4						
Z23240.00		2.89	11.8	62 F	7.6	836	94	31	43	4.0	0.0	166	285	10	0.0	0.9	.68		565	362
05/03/66	5050	201.	120		7.8		4.69	2.55	1.87	.10		2.72	5.93	.28					550	226
1010							51	28	20	1		30	66	3						
Z23240.00		2.87	11.0	55 F	7.8	827	93	31	42	4.0	0.0	171	285	11	1.5	0.9	.62		600	360
06/02/66	5050	195.	103		7.5		4.64	2.55	1.83	.10		2.80	5.93	.31	.02				553	220
1214							51	28	20	1		31	65	3						
Z23240.00					8.0	855	88	32	50	0.0	0.0	177	278	16	0.0	0.8	.61		641	351
06/13/66	5867						4.39	2.63	2.18			2.90	5.78	.45					552	206
1330							48	29	24			32	63	5						
Z23240.00		2.89	10.2	66 F	8.3	890	102	33	48	4.0	10	168	309	13	1.3	1.0	.70		650	390
07/06/66	5050	201.	109		7.5		5.09	2.71	2.09	.10	.33	2.76	6.43	.37	.02				604	236
1125							51	27	21	1	3	28	65	4						
Z23240.00		2.94	11.2	73 F	7.9	939	106	36	52	4.0	0.0	203	317	17	0.7	1.2	.70		679	413
08/02/66	5050	218.	128		7.4		5.29	2.96	2.26	.10		3.33	6.59	.48	.01				634	246
1245							50	28	21	1		32	63	5						
Z23240.00		1.58	8.4	76 F	8.0	1010	117	39	55	5.0	0.0	231	341	17	0.7	1.2	.82		755	453
09/05/66	5050	8.0	99		8.0		5.84	3.21	2.39	.13		3.79	7.09	.48	.01				690	263
1405							50	28	21	1		33	62	4						
Santa Clara River at Los Angeles Ventura County Line (46)																				
Z31135.00		3.51	8.0	57 F	7.9	3984	305	164	460	9.0	0.0	414	1727	226	0.0	1.5	1.30		2250	1436
12/02/65	5050	20.0	77		7.8		15.22	13.48	20.01	.23		6.79	35.92	6.37					3097	1096
							31	28	41			14	73	13						
Z31135.00		3.63			7.9	3720	288	162	474	0.0	0.0	506	1628	212	0.0	0.9	1.29		3280	1386
12/18/65	5867	4.0					14.37	13.32	20.62			8.30	33.86	5.98					3014	970
							30	28	43			17	70	12						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER DATE TIME	LAB	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENT PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
Santa Clara River at Los Angeles-Ventura County Line (46), continued																				
Z31135.00			9.2	54 F	7.8	1530	141	56	131	6.0	0.0	284	501	69	5.0	1.2	.55		1120	582
01/04/66	5050	130.	85				7.04	4.60	5.70	.15		4.66	10.42	1.95	.08				1050	349
1700							40	26	33	1		27	61	11						
Z31135.00			9.2	55 F	7.9	1818	172	70	155	6.0	0.0	332	633	82	10	1.4	.64		1370	717
02/02/66	5050	100.	86		8.3		8.58	5.75	6.74	.15		5.44	13.17	2.31	.16				1293	445
1340							40	27	32	1		26	62	11	1					
Z31135.00			8.6	67 F	8.0	1894	184	72	158	6.0	0.0	346	655	81	11	1.3	.68		1455	756
03/02/66	5050	40.	87		8.2		9.18	5.92	6.87	.15		5.67	13.62	2.28	.18				1339	472
1510							42	27	31	1		26	63	10	1					
Z31135.00		3.68			8.0	2068	198	76	210	0.0	0.0	381	792	92	0.0	0.8	.72		1749	807
03/18/66	5867	22.					9.88	6.25	9.14			6.25	16.47	2.59					1556	494
1000							39	25	36			25	65	10						
Z31135.00			7.4	73 F	8.1	2387	229	92	220	7.0	0.0	359	937	112	13	0.7	.84		1930	950
04/05/66	5050	5.	85		8.3		11.43	7.56	9.57	.18		5.89	19.49	3.16	.21				1787	656
1535							40	26	33	1		20	68	11	1					
Z31135.00			6.6	85 F	7.9	2494	224	99	245	6.0	0.0	351	999	120	11	1.1	1.00		1990	967
05/03/66	5050	3.	86		8.2		11.18	8.14	10.66	.15		5.76	20.78	3.38	.18				1878	679
1055							37	27	35			19	69	11	1					
Z31135.00			7.4	85 F	7.8	2625	225	109	276	7.0	0.0	359	1086	139	5.0	1.5	1.00		2135	1010
06/02/66	5050	3.	96		7.7		11.23	8.96	12.01	.18		5.89	22.59	3.92	.08				2025	716
1255							35	28	37	1		18	70	12						
Z31135.00		13.52			7.4	3170	239	127	380	0.0	0.0	350	1325	200	0.0	1.2	1.18		2621	1119
06/13/66	5867	2.					11.93	10.44	16.53			5.74	27.56	5.64					2445	832
1215							31	27	42			15	71	14						
Z31135.00			6.8	92 F	7.8	3520	273	144	436	9.0	0.0	392	1525	200	7.5	2.0	1.24		2957	1274
07/06/66	5050	2.	95		7.9		13.62	11.84	18.97	.23		6.43	31.72	5.64	.12				2790	952
1215							30	27	42	1		15	72	13						
Z31135.00		3.73	7.0	90 F	7.8	3441	261	144	422	8.0	0.0	376	1499	196	3.5	2.0	1.30		2890	1244
08/02/66	5050	1.5	96		7.8		13.02	11.84	18.36	.20		6.17	31.18	5.53	.06				2721	935
1305							30	27	42			14	73	13						
Z31135.00			7.2	84 F	7.7	3549	249	152	448	7.0	0.0	361	1542	212	1.1	2.2	1.34		3010	1247
09/05/66	5050	1.0	105		8.2		12.43	12.49	19.49	.18		5.92	32.07	5.98	.02				2792	951
1440							28	28	44			13	73	14						
Los Angeles River at Pacific Coast Highway (48)																				
Z61100.00		.48		86 F	7.5		359	125	6640		0.0	392	190	10555	0.0				17840	1411
10/06/65	5239	10.0					17.91	10.28	288.84			6.43	3.95	297.65						1089
1200																				
Z61100.00		.54		93 F	7.4		552	238	9800		0.0	551	29	14300	0.0				29118	2357
11/03/65	5239	11.5					27.54	19.56	426.30			9.04	.60	403.26						1905
1230																				
Z61100.00		1.40	8.5	55 F	8.0		91	100	360		0.0	163	166	727	14				1735	639
12/01/65	5239	126.	77				4.54	8.22	15.66			2.67	3.45	20.50	.24					505
1100																				
Z61100.00			10.3	50 F	--		62	22	380		0.0	146	63	625	8.9				1380	245
01/05/66	5239	1100.	91		7.3		3.09	1.81	16.53			2.39	1.31	17.63	.14					126
1045																				
Z61100.00			9.0	55 F	--		74	29	500		0.0	104	89	744	9.7				1444	304
02/02/66	5239		85		7.7		3.69	2.38	21.75			1.71	1.85	20.98	.16					218
1100																				
Z61100.00		.90	4.4	59 F	8.2		197	175	2850		0.0	255	348	4634	0.4				8423	1212
03/02/66	5239	36.0	43				9.83	14.39	123.98			4.18	7.24	130.68	.01					1003
1100																				
Z61100.00		.72	1.1	68 F	7.5		234	400	4150			184	1000	7060	0.0				14090	2230
04/06/66	5050	18.2	12				11.68	32.88	180.53			3.02	20.80	199.09						2079
1000																				
Z61100.00		.68	6.8	84 F	7.9	1673	99	50	185	10	0.0	289	328	203	4.3	0.8	.80		1072	453
05/03/66	5050	15.5	87		8.4		4.94	4.11	8.05	.26		4.74	6.82	5.72	.07				1023	216
1540							28	24	46	1		27	39	33						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENT PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
Los Angeles River at Pacific Coast Highway (48), continued																				
Z61100.00		.62		68 F	7.3		199	225	3500		0.0	221	534	5502	0.4				9699	1423
06/01/66	5239	15.3					9.93	18.50	152.25			3.62	11.11	155.16	.01					1241
1100																				
Z61100.00				79 F	7.5		231	225	3900		0.0	262	579	7770	4.3				12448	1503
07/06/66	5239	18.9					11.53	18.50	169.65			4.30	12.04	219.11	.07					1288
1100																				
Z61100.00		.64		77 F	7.1		240	380	4500		0.0	279	861	7887	0.9				14662	2163
08/03/66	5239	18.2					11.98	31.24	195.75			4.58	17.91	222.41	.01					1934
1000																				
Z61100.00		.46		87 F	8.7	1370	86	34	165	9.0	24	176	316	150	3.2	0.8	.44		900	354
09/07/66	5239	6.0			8.5		4.29	2.79	7.18	.23	.80	2.89	6.57	4.23	.05				875	170
1500							30	19	50	2	6	20	45	29						
Los Angeles River at Figueroa Street (47)																				
Z61300.00		.03	3.7	68 F	8.2		114	43	352		0.0	361	395	333	0.0				1570	461
10/06/65	5091	.2	40				5.69	3.53	15.31			5.92	8.22	9.39						165
0945																				
Z61300.00		.06	15.5	66 F	8.4		115	51	410		12	351	452	375	1.0				1690	497
11/03/65	5091	.2	166				5.74	4.19	17.84		.40	5.76	9.40	10.58	.02					189
1100																				
Z61300.00		.44	9.8	58 F	8.4		129	45	94		8.0	233	334	76	27				1095	507
12/01/65	5091	21.2	96				6.44	3.70	4.09		.27	3.82	6.95	2.14	.43					303
1040																				
Z61300.00			9.6	58 F	8.3		116	45	136		264	0.0	307	121	19				995	475
01/17/66	5091		94				5.79	3.70	5.92		8.79		6.39	3.41	.31					35
1045																				
Z61300.00			9.4	54 F	7.8		28	10	22				63	17	5.7				234	111
02/02/66	5091		87				1.40	.82	.96				1.31	.48	.09					
1030																				
Z61300.00		.13	9.6	54 F	7.5		106	13	185		0.0	157	325	149	12				952	318
03/02/66	5091	2.2	89				5.29	1.07	8.05			2.57	6.76	4.20	.19					190
1100																				
Z61300.00		.05	16.0	72 F	8.2		106	40	280				388	267	0.0				1335	429
04/06/66	5091	.5					5.29	3.29	12.18		8.42		8.07	7.53						8
1100																				
Z61300.00		.05		85 F	7.4	2252	115	48	318	6.0	0.0	332	467	301	4.6	0.8	1.30		1455	485
05/03/66	5091	.4			8.2		5.74	3.95	13.83	.15		5.44	9.71	8.49	.07					213
1405							24	17	58	1		23	41	36						
Z61300.00			10.4	75 F	8.3		120	48	410		0.0	334	480	382	0.0				1740	497
07/06/66	5091	.3	122				5.99	3.95	17.84			5.48	9.98	10.77						223
1100																				
Z61300.00		.03	8.9	75 F	8.1		128	51	440		0.0	351	505	404	0.0				1835	529
08/03/66	5091	.2	104				6.39	4.19	19.14			5.76	10.50	11.39						241
1040																				
Z61300.00		.04	12.0	78 F	7.8	2893	126	54	456	6.0	0.0	416	529	446	8.0	1.5	1.80		1948	537
09/05/66	5091	.3	145		7.8		6.29	4.44	19.84	.15		6.82	11.00	12.58	.13				1832	196
1615							20	14	65			22	36	41						
Los Angeles Aqueduct Near San Fernando (70)																				
Z61850.05			8.6	58 F	7.9	339	23	6.0	35	4.0	0.0	0.0	25	16	0.8	0.5	.60	22	--	82
10/19/65	1200	470.1	84		8.2		1.15	.49	1.52	.10			.52	.45	.01				133	
							35	15	47	3			53	46	1					
Z61850.05			8.6	58 F	8.2	287	20	5.0	29	4.0	0.0	0.0	16	13	1.1	0.6	.45	18	--	71
11/16/65	1200	408.7	84				1.00	.41	1.26	.10			.33	.37	.02				107	
							36	15	45	4			46	51	3					
Z61850.05			10.8	47 F	8.2	300	21	6.0	31	4.0	0.0	0.0	22	12	0.4	0.5	.43	19	--	77
12/21/65	1200	339.6	92		8.8		1.05	.49	1.35	.10			.46	.34	.01				116	
							35	16	45	3			57	42	1					

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
							MILLIEQUIVALENT PER LITER													
							PERCENT REACTANCE VALUE													
Los Angeles Aqueduct Near San Fernando (70), continued																				
Z61850.05			11.2	43 F	7.9	303	21	6.0	31	4.0	0.0	0.0	24	13	0.6	0.3	.45	18	--	77
01/18/66	1200	370.0	90		8.4		1.05	.49	1.35	.10			.50	.37	.01				118	
							35	16	45	3			57	42	1					
Z61850.05			11.4	45 F	--	323	22	6.0	33	4.0	0.0	0.0	25	14	0.0	0.5	.43	18	--	80
02/24/66	1200	447.0	94		8.3		1.10	.49	1.44	.10			.52	.39					123	
							35	16	46	3			57	43						
Z61850.05			10.6	50 F	8.3	340	22	6.0	37	4.0	0.0	115	24	17	0.5	0.6	.51	20	--	80
03/22/66	1200	462.8	93		8.3		1.10	.49	1.61	.10		1.89	.50	.48	.01				188	
							33	15	49	3		66	17	17						
Z61850.05			9.4	58 F	8.5	356	22	6.0	40	5.0	0.0	0.0	22	17	0.7	0.6	.55	25	--	80
04/19/66	1200	486.5	92		8.2		1.10	.49	1.74	.13			.46	.48	.01				139	
							32	14	50	4			48	51	1					
Z61850.05			8.7		8.4	367	22	6.0	43	5.0	0.0	0.0	21	18	0.5	0.7	.55	24	--	80
05/17/66	1200	488.3					1.10	.49	1.87	.13			.44	.51	.01				141	
							31	14	52	4			46	53	1					
Z61850.05			8.2	70 F	8.4	337	22	7.0	37	5.0	0.0	0.0	18	16	0.4	0.7	.60	21	--	84
06/21/66	1200		91		8.4		1.10	.58	1.61	.13			.37	.45	.01				128	
							32	17	47	4			45	54	1					
Z61850.05			8.7	72 F	8.4	328	21	6.0	33	4.0	0.0	140	17	16	0.7	0.6	.48	20	--	77
07/19/66	1200	495.0	99		8.0		1.05	.49	1.44	.10		2.30	.35	.45	.01				187	
							34	16	47	3		74	11	14						
Z61850.05			8.0	75 F	8.3	312	22	5.0	33	4.0	0.0	0.0	17	13	0.9	0.6	.46	22	--	76
08/16/66	1200	495.0	94		7.7		1.10	.41	1.44	.10			.35	.37	.01				118	
							36	13	47	3			48	51	1					
Z61850.05			8.6	68 F	8.1	316	22	5.0	32	5.0	0.0	0.0	14	15	1.8	0.6	.50	19	--	76
09/20/66	1200	494.0	94		7.7		1.10	.41	1.39	.13			.29	.42	.03				115	
							36	14	46	4			39	57	4					
Rio Hondo Above Spreading Grounds (49B)																				
Z69780.00			7.4	73 F	7.3	1221	89	31	122	7.0	0.0	145	321	115	12	0.6	.22		800	350
10/08/65	5050	171.	85		7.3		4.44	2.55	5.31	.18		2.38	6.68	3.24	.19				769	231
1030							36	20	43	1		19	53	26	2					
Z69780.00			10.0	61 F	7.9	1312	101	33	130	7.0	0.0	170	349	121	7.0	0.5	.24		858	388
11/05/65	5050	.5	100		8.3		5.04	2.71	5.66	.18		2.79	7.26	3.41	.11				832	248
0900							37	20	42	1		21	54	25	1					
Z69780.00			9.4	58 F	7.1	417	39	10	30	6.0	0.0	142	45	22	18	0.5	.15		253	139
12/07/65	5050	189.	92		7.9		1.95	.82	1.31	.15		2.33	.94	.62	.29				240	22
1030							46	19	31	4		56	22	15	7					
Z69780.00			10.0	52 F	7.4	348	37	9.0	16	5.0	0.0	139	31	12	9.0	0.4	.08		200	130
01/07/66	5050	198.	90		7.4		1.85	.74	.70	.13		2.28	.64	.34	.14				188	16
1150							54	22	20	4		67	19	10	4					
Z69780.00		2.61	8.6	62 F	7.6	704	53	15	56	10	0.0	226	84	50	20	0.6	.30		410	194
02/07/66	5050		88				2.64	1.23	2.44	.26		3.71	1.75	1.41	.32				400	8
1015							40	19	37	4		52	24	20	4					
Z69780.00			5.4	70 F	7.1	876	53	26	88	10	0.0	185	144	70	54	1.4	.42		560	239
03/14/66	5050	115.	60		7.8		2.64	2.14	3.83	.26		3.03	3.00	1.97	.87				537	88
1200							30	24	43	3		34	34	22	10					
Z69780.00			10.2	65 F	7.9	1202	92	29	120	6.0	0.0	159	312	114	8.7	0.4	.22		800	349
04/08/66	5050	224.	108		8.2		4.59	2.38	5.22	.15		2.61	6.49	3.21	.14				760	218
1130							37	19	42	1		21	52	26	1					
Z69780.00			8.0	74 F	7.3	1183	88	31	116	7.0	0.0	159	294	108	7.0	0.7	.20		700	347
05/06/66	5050	129.	93		8.7		4.39	2.55	5.05	.18		2.61	6.12	3.05	.11				730	217
1020							36	21	41	1		22	51	26	1					
Z69780.00				72 F	7.6	1166	88	29	114	7.0	0.0	160	293	108	11	0.7	.22		780	339
06/03/66	5050	93.			7.3		4.39	2.38	4.96	.18		2.62	6.09	3.05	.19				730	208
0825							37	20	42	2		22	51	26	2					
Z69780.00			9.0	76 F	7.8	1190	83	30	127	7.0	0.0	149	299	112	11	0.8	.23		810	331
09/06/66	5050	200.	107		8.0		4.14	2.47	5.52	.18		2.44	6.22	3.16	.19				744	209
2045							34	20	45	1		20	52	26	2					
San Gabriel River at Whittier Narrows (50)																				
Z71100.90			10.0	53 F	7.9	264	35	7.0	8.0	4.0	0.0	131	19	5.0	5.0	0.3	.07		166	117
12/07/65	5050	1200.	91		7.9		1.75	.58	.35	.10		2.15	.40	.14	.08				148	9
0950							63	21	13	4		78	14	5	3					

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.H. / Q	DO / SAT	TEMP	PH / LAB / FLD	EC / LAB	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS / SUM	TH / NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
							MILLIEQUIVALENT PER LITER													
							PERCENT REACTANCE VALUE													
San Gabriel River at Whittier Narrows (50), continued																				
Z71100.90			10.9	51 F	7.7	277	34	8.0	9.0	5.0	0.0	134	23	5.0	4.0	0.2	.02		170	118
01/07/66	5050	3000.	97		8.0		1.70	.66	.39	.13		2.20	.48	.14	.06				154	8
1110							59	23	14	5		76	17	5	2					
Z71100.90			10.0	55 F	7.1	491	44	10	32	14	0.0	121	70	35	13	0.5	.16		294	151
02/07/66	5050	20.	94		7.6		2.20	.82	1.39	.36		1.98	1.46	.99	.21				278	52
0940							46	17	29	8		43	31	21	5					
Z71100.90			10.9	59 F	7.6	1172	95	31	111	7.0	0.0	195	288	105	12	0.7	.24		780	365
03/14/66	5050	15.	108		8.2		4.74	2.55	4.83	.18		3.20	5.99	2.96	.19				745	205
1125							39	21	39	1		26	49	24	2					
Z71100.90			10.2	64 F	8.0	1214	94	32	120	6.0	0.0	163	329	114	4.2	0.6	.18		820	366
04/08/66	5050	111.	112		8.3		4.69	2.63	5.22	.15		2.67	6.84	3.21	.07				780	233
1050							37	21	41	1		21	53	25	1					
Z71100.90			8.6	68 F	8.1	1224	95	32	120	6.0	0.0	162	324	113	3.0	0.6	.18		837	369
05/06/66	5050	135.	94		8.3		4.74	2.63	5.22	.15		2.66	6.74	3.19	.05				773	236
0930							37	21	41	1		21	53	25						
Z71100.90				72 F	8.1	1229	95	34	122	6.0	0.0	154	339	112	3.0	0.6	.14		835	377
06/03/66	5050	135.			7.9		4.74	2.79	5.31	.15		2.53	7.05	3.16	.05				787	250
0930							36	21	41	1		20	55	25						
Z71100.90			9.4	76 F	7.5	1205	87	33	120	6.0	0.0	147	323	108	2.7	0.6	.15		803	353
09/06/66	5050	300.	111		8.0		4.34	2.71	5.22	.15		2.41	6.72	3.05	.04				752	232
2115							35	22	42	1		20	55	25						
San Gabriel River at Azusa Powerhouse (50D)																				
Z71927.10			8.6	66 F	7.5	361	45	16	10	4.0	0.0	203	29	5.0	1.0	0.5	.06		230	179
10/08/65	5050	70.	96		7.9		2.25	1.32	.44	.10		3.33	.60	.14	.02				210	12
1300							55	32	11	2		81	15	3						
Z71927.10			9.8	62 F	7.8	442	62	13	12	4.0	0.0	251	24	5.0	2.0	0.5	.09		203	208
11/05/65	5050	60.	97		8.1		3.09	1.07	.52	.10		4.12	.50	.14	.03				246	2
1145							65	22	11	2		86	10	3	1					
Z71927.10			12.4	48 F	8.0	331	45	10	7.0	3.0	0.0	173	22	4.0	4.0	0.4	.06		170	154
02/07/66	5050	50.	107		8.0		2.25	.82	.30	.08		2.84	.46	.11	.06				180	12
1130							65	24	9	2		82	13	3	2					
Z71927.10			12.4	53 F	8.2	329	44	12	7.0	4.0	0.0	176	22	4.0	5.0	0.5	.06		190	160
03/14/66	5050	80.	112		8.4		2.20	.99	.30	.10		2.89	.46	.11	.08				185	15
1435							61	28	8	3		82	13	3	2					
Z71927.10			8.6	62 F	7.7	384	56	12	8.0	4.0	0.0	215	23	4.0	5.2	0.4	.08		225	189
04/08/66	5050	85.	88		7.8		2.79	.99	.35	.10		3.53	.48	.11	.08				218	13
1225							66	23	8	2		84	11	3	2					
Z71927.10			8.0	67 F	7.8	391	53	13	10	5.0	0.0	217	24	5.0	3.0	0.4	.06		232	186
05/06/66	5050	50.	86		8.0		2.64	1.07	.44	.13		3.56	.50	.14	.05				220	8
1330							62	25	10	3		84	12	3	1					
Z71927.10				62 F	7.9		49	12	10	5.0	0.0	200	22	5.0	2.8	0.5	.06		210	172
06/03/66	5050	50.			7.3		2.45	.99	.44	.13		3.28	.46	.14	.05				204	8
1015							61	25	11	3		83	12	4	1					
Z71927.10			8.0	69 F	7.7	371	50	12	10	4.0	0.0	200	22	4.0	1.0	0.5	.06		200	175
07/14/66	5050	50.	88		8.0		2.50	.99	.44	.10		3.28	.46	.11	.02				202	11
1200							62	25	11	2		85	12	3	1					
Z71927.10			8.4	72 F	7.8	356	48	14	10	5.0	0.0	210	24	5.0	1.3	0.4	.06		205	178
08/05/66	5050	85.	96		7.4		2.40	1.15	.44	.13		3.44	.50	.14	.02				211	6
1145							58	28	11	3		84	12	3						
Z71927.10			7.6	74 F	7.7	391	51	13	10	4.0	0.0	217	24	5.0	1.0	0.5	.08		208	181
09/06/66	5050	50.	88		7.8		2.54	1.07	.44	.10		3.56	.50	.14	.02				215	3
1815							61	26	11	2		84	12	3						
Rio Hondo at Whittier Narrows (49)																				
Z75100.00		3.02	8.0	73 F	7.5	1232	92	35	123	6.0	0.0	142	354	117	2.0	0.6	.16		840	374
10/08/65	5050	158.	92		7.9		4.59	2.88	5.35	.15		2.33	7.36	3.30	.03				799	257
0930							35	22	41	1		18	57	25						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

SOUTHERN CALIFORNIA

STATION NUMBER / DATE / TIME	LAB	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENT PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS SUM	TH NCH
Rio Hondo at Whittier Narrows (49), continued																				
Z75100.00		1.30	5.2	58 F	7.9	1145	84	27	120	7.0	0.0	195	273	98	7.0	0.9	.25		725	321
11/05/65	5050	3.8	51		7.8		4.19	2.22	5.22	.18		3.20	5.68	2.76	.11				713	161
0650							35	19	44	2		27	48	23	1					
Z75100.00		1.27	8.4	54 F	7.6	859	70	21	80	5.0	0.0	203	171	61	13	0.9	.24		550	261
12/07/65	5050	3.7	78		7.6		3.49	1.73	3.48	.13		3.33	3.56	1.72	.21				522	95
0900							40	20	39	1		38	40	20	2					
Z75100.00		2.73	6.6	54 F	7.4	733	72	20	53	5.0	0.0	200	135	43	11	0.9	.21		438	262
01/07/66	5050	3.9	61		7.4		3.59	1.64	2.31	.13		3.28	2.81	1.21	.18				438	98
1010							47	21	30	2		44	38	16	2					
Z75100.00		1.60	7.0	55 F	7.2	494	47	12	31	8.0	0.0	134	77	30	9.0	0.5	.12		270	167
02/07/66	5050	7.0	66		7.4		2.35	.99	1.35	.20		2.20	1.60	.85	.14				280	57
0845							48	20	28	4		46	33	18	3					
Z75100.00		1.79	5.6	60 F	7.5	1056	93	28	93	6.0	0.0	222	243	86	4.0	0.9	.24		690	347
03/14/66	5050	6.6	52		7.4		4.64	2.30	4.05	.15		3.64	5.05	2.43	.06				663	165
0845							42	21	36	1		33	45	22	1					
Z75100.00		3.23	11.4	59 F	8.0	1217	94	32	120	6.0	0.0	159	334	113	2.6	0.6	.18		830	366
04/08/66	5050	204.	112		8.3		4.69	2.63	5.22	.15		2.61	6.95	3.19	.04				780	236
0945							37	21	41	1		20	54	25						
Z75100.00		2.36	10.0	66 F	7.5	1218	91	35	125	6.0	0.0	161	334	112	2.0	0.6	.16		820	371
05/06/66	5050	111.	107		8.2		4.54	2.88	5.44	.15		2.64	6.95	3.16	.03				785	239
0830							35	22	42	1		21	54	25						
Z75100.00		2.18		74 F	7.9	1214	93	34	118	6.0	0.0	159	332	114	2.3	0.7	.19		810	372
06/03/66	5050	103.			8.0		4.64	2.79	5.13	.15		2.61	6.91	3.21	.04				778	241
0900							37	22	40	1		20	54	25						
Z75100.00			9.0	66 F	7.2	1005	75	23	103	7.0	0.0	207	197	89	10	1.2	.34		630	282
07/14/66	5050	3.6	97		8.2		3.74	1.89	4.48	.18		3.39	4.10	2.51	.16				607	112
0845							36	18	44	2		33	40	25	2					
Z75100.00		1.20	10.2	80 F	8.0	868	74	26	84	6.0	0.0	222	189	63	15	0.9	.22		600	292
08/05/66	5050	8.0	126		8.2		3.69	2.14	3.65	.15		3.64	3.93	1.78	.24				567	110
1245							38	22	38	2		38	41	19	3					
Z75100.00		2.20	8.8	77 F	7.6	1200	88	32	120	5.0	0.0	148	322	107	1.5	0.6	.17		803	351
09/06/66	5050	137.	115		8.0		4.39	2.63	5.22	.13		2.43	6.70	3.02	.02				749	230
2005							35	21	42	1		20	55	25						
Mission Creek at Whittier Narrows (49A)																				
Z76150.00			2.4	63 F	7.1	892	111	19	55	11	0.0	240	214	33	25	0.7	.34		590	355
01/07/66	5050	.1	40		7.2		5.54	1.56	2.39	.28		3.94	4.45	.93	.40				587	158
1050							57	16	24	3		41	46	10	4					
Z76150.00		6.19	7.4	57 F	7.5	1078	152	40	28	4.0	0.0	234	346	27	24	0.7	.16		772	544
02/07/66	5050	.5	74		7.2		7.58	3.29	1.22	.10		3.84	7.20	.76	.39				737	352
0900							62	27	10	1		32	59	6	3					
Z76150.00		5.82	8.4	61 F	7.7	770	108	26	24	3.0	0.0	237	203	18	5.0	0.8	.12		530	377
03/14/66	5050	1.5	85		7.4		5.39	2.14	1.04	.08		3.89	4.22	.51	.08				504	182
1100							62	25	12	1		45	49	6	1					
Z76150.00		5.84	10.4	65 F	7.8	684	96	23	22	2.0	0.0	227	166	17	2.8	0.7	.12		500	334
04/08/66	5050	.5	110		7.6		4.79	1.89	.96	.05		3.72	3.45	.48	.05				441	148
1015							62	25	12	1		48	45	6	1					
Z76150.00			8.0	67 F	7.5	500	63	18	17	2.0	0.0	185	90	12	0.5	0.6	.06		305	231
05/06/66	5050	1.0	86		8.1		3.14	1.48	.74	.05		3.03	1.87	.34	.01				294	80
0900							58	27	14	1		58	36	6						
Z76150.00		6.52	8.6	73 F	8.0	966	93	33	120	7.0	0.0	151	344	111	2.8	0.6	.16		810	368
09/06/66	5050	.3	99		8.0		4.64	2.71	5.22	.18		2.48	7.16	3.13	.05				786	244
1830							36	21	41	1		19	56	24						

TABLE D-3
TRACE ELEMENT ANALYSES OF SURFACE WATER
SOUTHERN CALIFORNIA

Station	Station number	Date 1966	Constituents in micrograms per liter															
			Al	Ba	Bi	Cd	Co	Cr	Cu	Fe	Ga	Ge	Mn	Mo	Ni	Pb	Sr	V
CENTRAL COASTAL DRAINAGE PROVINCE (T)																		
Lake Cachuma near Santa Ynez (44B)	D-81565.00	5-2	220	90				<1	23	10			4	7	5	1	240	3
Santa Ynez River near Solvang (45A)	D-81440.00	4-4	150	400				1	2	10			<1	7	3	<1	260	2
LOS ANGELES DRAINAGE PROVINCE (U)																		
Mission Creek at Whittier Narrows (49A)	Z-76150.00	4-8	<100	1,000				<1	2	70			5	4	2	<1	240	3
Rio Hondo at Whittier Narrows (49)	Z-75100.00	4-8	<100	1,300				<1	12	10			2	12	3	1	460	4
San Gabriel River at Azusa Powerhouse (50D)	Z-71927.10	4-8	<100	3,600				<1	3	50			195	6	1	<1	360	4
San Gabriel River at Whittier Narrows (50)	Z-71100.90	4-8	140	500				1	6	130			5	15	3	1	500	5
Rio Hondo above Spreading Grounds (49B)	Z-69780.00	4-8	140	1,600				3	9	10			1	11	14	2	440	4
Los Angeles River at Figueroa Street (47)	Z-61300.00	5-3	140	640				<1	5	50			190	11	4	5	260	2
Los Angeles River at Pacific Coast Highway (48)	Z-61100.00	5-3	260	1,120				<1	3	70			5	37	2	14	130	2
Santa Clara River at Los Angeles-Ventura County Line (46)	Z-31135.00	4-5	500	500				1	4	220			9	10	9	1	360	4
Piru Creek below Santa Felicia Dam (46H)	Z-23240.00	5-3	110	50				<1	2	10			7	10	2	1	260	1
Sespe Creek near Fillmore (46D)	Z-22150.00	5-3	200	60				<1	2	10			<1	7	2	1	440	1
Santa Clara River at Highway 99 (46F)	Z-21702.00	5-3	700	100				<1	20	30			2	2	2	3	520	6
Santa Clara River near Santa Paula (46A)	Z-21360.10	4-5	400	240				<1	3	20			<1	18	5	1	360	2
Santa Paula Creek near Santa Paula (46E)	Z-21300.00	5-3	150	60				<1	2	<10			<1	3	4	1	360	1
Matilija Creek above Matilija Dam (45B)	Z-15500.00	5-2	200	50				<1	1	10			<1	2	2	1	480	1
Ventura River near Ventura (61)	Z-11100.00	4-4	<100	600				<1	5	10			1	17	6	1	500	<1
LAHONTAN DRAINAGE PROVINCE (W)																		
Mojave River, West Fork above Cedar Springs (67C)	V-92300.00	4-6	<100	1,100				<1	1	50			4	1	1	1	240	2
Mojave River, East Fork of the West Fork (67B)	V-92250.00	4-6	<100	140				3	2	30			3	2	2	1	200	1
Mojave River, West Fork below Cedar Springs (67D)	V-92200.00	4-6	100	520				1	3	380			7	1	1	1	220	3

TABLE D-3

TRACE ELEMENT ANALYSES OF SURFACE WATER SOUTHERN CALIFORNIA

Station	Station number	Date 1966	Al	Ba	Bi	Cd	Co	Cr	Cu	Fe	Ga	Ge	Mn	Mo	Ni	Pb	Sr	V	Zn
			Constituents in micrograms per liter																
LAHONTAN DRAINAGE PROVINCE (W) (continued)																			
Mojave River at the Forks (67a)	V-92150.30	4-6	<100	340				7	2	70			2	3	3	1	170	2	10
Mojave River near Victorville (67)	V-91620.00	4-6	<100	1,000				<1	3	60			5	4	1	1	380	6	16
COLORADO RIVER DRAINAGE PROVINCE (X)																			
Alamo River near Calipatria (60)	W-92100.00	5-9	800	260				<1	6	10			1	29	1	2	760	7	1
Alamo River at International Boundary (59)	W-92020.00	5-10	200	160				5	10	70			1,500	43	6	2	360	10	37
New River at International Boundary (57)	W-91800.00	5-10	400	2,200				<1	2	20			95	12	5	3	2,200	2	6
New River near Westmorland (58)	W-91100.00	5-9	700	440				<1	4	20			3	22	2	<1	840	5	25
All American Canal above Pilot Knob Wasteway (56A)	W-71929.00	5-10	240	1,300				<1	4	140			160	23	2	2	400	5	16
Colorado River near Blythe (56C)	W-71870.05	5-16	260	400				<1	6	70			13	10	3	2	640	4	24
Colorado River below Morelos Dam (56B)	W-71750.00	5-10	520	280				<1	4	20			1	33	1	<1	920	5	27
Colorado River at Yuma, Arizona (56)	W-71700.00	5-10	320	1,900				<1	4	20			4	7	1	1	760	4	14
Salton Sea at Salton Sea State Park (68A)	W-51600.70	5-9	12,000	2,500				<5	6	10			<5	35	<5	<5	7,000	6	32
Whitewater River near Whitewater (68)	W-31450.00	5-9	<100	520				<1	3	10			2	16	2	<1	340	2	2
Whitewater River near Mecca (68B)	W-31070.00	5-9	260	320				<1	7	20			2	65	2	<1	720	18	11
Colorado River below Parker Dam (55)	W-21775.10	5-18	160	300				<1	8	<10			<1	9	2	1	560	3	19
Colorado River near Topock, Arizona (54)	W-21530.00	5-19	<100	320				<1	5	10			1	10	1	1	510	3	400
SANTA ANA DRAINAGE PROVINCE (Y)																			
Lake Elsinore at State Park (89)	Y-82200.00	5-12	<100	260				<1	5	180			55	130	3	3	160	16	50
San Timoteo Creek at Waterman Avenue near San Bernardino (51G)	Y-71145.00	4-7	380	800				<1	4	900			3	4	3	1	240	8	20
Santa Ana River near Arlington (51)	Y-61400.00	4-7	<100	1,040				<1	3	150			13	5	2	<1	360	7	6
Santa Ana River near Norco (51E)	Y-61225.00	4-7	<100	640				<1	5	20			7	7	3	2	320	7	60
Santa Ana No. 1 Tailrace near Mentone (51B)	Y-51978.00	4-7	<100	460				<1	2	5			1	3	1	<1	320	2	9
Santa Ana River at Colton (51F)	Y-51080.00	4-7	<100	360				<1	6	30			6	3	13	1	260	3	15
Warm Creek at Colton (50B)	Y-41100.00	4-7	<100	400				<1	7	180			7	4	18	2	280	3	35

TABLE D-3
TRACE ELEMENT ANALYSES OF SURFACE WATER
SOUTHERN CALIFORNIA

Station	Station number	Date 1966	Al	Ba	Bi	Cd	Co	Cr	Cu	Fe	Ga	Ge	Mn	Mo	Ni	Pb	Sr	V	Zn
			Constituents in micrograms per liter																
SANTA ANA DRAINAGE PROVINCE (Y) (continued)																			
Chino Creek near Chino (86)	Y-21210.05	4-7	<100	960				<1	9	4			18	8	4	2	280	9	2
Santa Ana River below Prado Dam (51A)	Y-11550.00	4-7	<100	760				<1	4	100			16	9	3	1	400	15	21
SAN DIEGO DRAINAGE PROVINCE (Z)																			
San Diego River at Old Mission Dam (65)	X-51230.30	5-11	300	1,100				5	14	80			500	43	11	18	260	15	130
Escondido Creek near Harmony Grove (63)	X-43400.05	5-12	200	640				<1	7	40			150	19	16	1	700	11	30
Santa Margarita River near Fallbrook (51C)	X-21350.00	5-12	<100	1,200				<1	2	120			70	6	1	2	240	5	17

TABLE D-4 MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

An explanation of column headings follows:

Coliform - The two values represent analyses of duplicate samples collected at the same time. The determinations were made by the California Department of Public Health.

Turbidity - The values are shown in Jackson Candle Units and reported as "Units".

MBAS - (Methylene Blue Active Substance). An indicator of the presence of the surface active agents alkyl benzene sulfonate and linear alkyl sulfonate in detergents.

TABLE D-4

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

SOUTHERN CALIFORNIA

STATION	STATION NUMBER	DATE	COLIFORM (MPN/ML)		MBAS (MG/L)	ARSENIC (MG/L)	PHOSPHATE (MG/L)	TURBIDITY (UNITS)
Cuyama River Near Garey (44A)	D63050.00	12-01-65	230.	620.	.	.	.	150
	D63050.00	01-04-66	6.	23.	.	.	.	< 25
	D63050.00	02-01-66	1.3	2.3	.	.	.	< 25
	D63050.00	04-04-66	6.2	6.2	.	.	.	< 25
Lake Cachuma Near Santa Ynez (44B)	D81565.00	10-04-65	13.	21.	.	.	.	< 25
	D81565.00	11-01-65	0.6	2.3	.	.	.	--
	D81565.00	12-01-65	0.6	0.6	.	.	.	< 25
	D81565.00	01-03-66	0.6	2.3	.	.	.	< 25
	D81565.00	02-01-66	2.3	2.3	.	.	.	< 25
	D81565.00	03-01-66	0.45	0.6	.	.	.	< 25
	D81565.00	04-04-66	0.6	0.45	.	.	.	< 25
	D81565.00	05-02-66	0.6	0.6	.	.	.	< 25
	D81565.00	06-01-66	0.45	0.45	.	.	.	--
	D81565.00	07-05-66	0.45	1.3	.	.	.	< 25
	D81565.00	08-01-66	0.45	0.45	.	.	.	< 25
	D81565.00	09-05-66	23.	0.6	.	.	.	< 25
Santa Ynez River Near Solvang (45A)	D81440.00	12-01-65	62.	62.	.	.	.	< 25
	D81440.00	01-03-66	62.	62.	.	.	.	40
	D81440.00	02-01-66	23.	23.	.	.	.	< 25
	D81440.00	03-01-66	6.2	6.2	.	.	.	< 25
	D81440.00	04-04-66	--.	--.	.	.	.	< 25
	D81440.00	05-02-66	23.	700.	.	.	.	< 25
	D81440.00	06-01-66	6.	4.5	.	.	.	< 25
Matilija Creek Above Dam (45B)	Z15500.00	10-05-65	240.	240.	.	.	.	< 25
	Z15500.00	11-01-65	4.5	6.	.	.	.	< 25
	Z15500.00	12-02-65	2.3	6.2	.	.	.	< 25
	Z15500.00	01-03-66	6.2	23.	.	.	.	120
	Z15500.00	02-01-66	0.6	0.6	.	.	.	< 25
	Z15500.00	03-01-66	6.2	0.6	.	.	.	< 25
	Z15500.00	04-05-66	0.6	0.45	.	.	.	< 25
	Z15500.00	05-02-66	5.	0.45	.	.	.	< 25
	Z15500.00	06-01-66	0.45	0.45	.	.	.	< 25
	Z15500.00	07-05-66	1.3	2.3	.	.	.	< 25
	Z15500.00	08-01-66	700.	240.	.	.	.	< 25
	Z15500.00	09-05-66	23.	23.	.	.	.	< 25
Santa Clara River at Los Angeles-Ventura County Line (46)	Z31135.00	12-02-65	23.	230.	.	.	.	< 25
	Z31135.00	01-04-66	130.	230.	.	.	.	1900
	Z31135.00	02-02-66	230.	230.	.	.	.	1500
	Z31135.00	03-02-66	62.	230.	.	.	.	700
	Z31135.00	04-05-66	500.	620.	.	.	.	4000

TABLE D-4

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

SOUTHERN CALIFORNIA

STATION	STATION NUMBER	DATE	COLIFORM (MPN/ML)		MBAS (MG/L)	ARSENIC (MG/L)	PHOSPHATE (MG/L)	TURBIDITY (UNITS)
Santa Clara River at Los Angeles-Ventura County Line (46)	Z31135.00	05-03-66	62.	62.	.	.	.	450
	Z31135.00	06-02-66	23.	23.	.	.	.	--
	Z31135.00	07-06-66	62.	23.	.	.	.	65
	Z31135.00	08-02-66	23.	62.	.	.	.	190
	Z31135.00	09-05-66	6.2	6.2	.	.	.	< 25
Santa Clara River Near Santa Paula (46A)	Z21360.10	10-05-65	13.	62.	.	.	.	< 25
	Z21360.10	11-02-65	23.	62.	.	.	.	--
	Z21360.10	12-02-65	23.	230.	.	.	.	70
	Z21360.10	01-04-66	230.	240.	.	.	.	640
	Z21360.10	02-02-66	23.	230.	.	.	.	100
	Z21360.10	03-02-66	50.	23.	.	.	.	< 25
	Z21360.10	04-05-66	130.	13.	.	.	.	< 25
	Z21360.10	05-03-66	6.2	62.	.	.	.	60
	Z21360.10	06-02-66	2.3	23.	.	.	.	< 25
	Z21360.10	08-02-66	29.	62.	.	.	.	< 25
	Z21360.10	09-05-66	23.	62.	.	.	.	< 25
Sespe Creek Near Fillmore (46D)	Z22150.00	10-05-65	4.6	240.	.	.	.	< 25
	Z22150.00	11-02-65	6.2	23.	.	.	.	--
	Z22150.00	12-02-65	23.	23.	.	.	.	40
	Z22150.00	01-04-66	62.	62.	.	.	.	75
	Z22150.00	02-02-66	0.6	0.6	.	.	.	< 25
	Z22150.00	03-02-66	6.2	6.2	.	.	.	< 25
	Z22150.00	04-05-66	2.3	2.3	.	.	.	< 25
	Z22150.00	05-03-66	2.3	1.3	.	.	.	< 25
	Z22150.00	06-02-66	1.3	0.6	.	.	.	--
	Z22150.00	07-06-66	6.	23.	.	.	.	< 25
	Z22150.00	08-02-66	0.45	0.6	.	.	.	< 25
	Z22150.00	09-05-66	2.1	5.0	.	.	.	< 25
Santa Paula Creek Near Santa Paula (46E)	Z21300.00	10-05-65	230.	620.	.	.	.	< 25
	Z21300.00	11-02-65	62.	--.	.	.	.	--
	Z21300.00	12-02-65	6.	23.	.	.	.	100
	Z21300.00	01-04-66	6.2	13.	.	.	.	30
	Z21300.00	02-02-66	1.3	0.6	.	.	.	< 25
	Z21300.00	03-02-66	6.2	6.2	.	.	.	< 25
	Z21300.00	04-05-66	2.3	2.3	.	.	.	< 25
	Z21300.00	05-03-66	6.2	0.45	.	.	.	< 25
	Z21300.00	06-02-66	0.6	0.45	.	.	.	--
	Z21300.00	07-06-66	6.2	13.	.	.	.	< 25
	Z21300.00	08-02-66	6.2	23.	.	.	.	< 25
	Z21300.00	09-05-66	62.	5.	.	.	.	< 25

TABLE D-4

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

SOUTHERN CALIFORNIA

STATION	STATION NUMBER	DATE	COLIFORM (MPN/ML)		MBAS (MG/L)	ARSENIC (MG/L)	PHOSPHATE (MG/L)	TURBIDITY (UNITS)
Piru Creek Below Santa Felicia Dam (46H)	Z23240.00	10-05-65	2.3	23.	.	.	.	75
	Z23240.00	11-02-65	6.2	6.2	.	.	.	--
	Z23240.00	12-02-65	4.5	6.	.	.	.	< 25
	Z23240.00	01-04-66	6.	23.	.	.	.	30
	Z23240.00	02-02-66	1.3	2.1	.	.	.	< 25
	Z23240.00	03-02-66	0.45	0.45	.	.	.	< 25
	Z23240.00	04-05-66	6.2	2.3	.	.	.	125
	Z23240.00	05-03-66	2.1	6.2	.	.	.	< 25
	Z23240.00	06-02-66	0.6	6.2	.	.	.	--
	Z23240.00	07-06-66	0.94	2.0	.	.	.	< 25
	Z23240.00	08-02-66	1.3	0.6	.	.	.	35
	Z23240.00	09-05-66	23.	0.6	.	.	.	< 25
Los Angeles River at Figueroa Street (47)	Z61300.00	10-06-65	7000.	.	.	.	.	0
	Z61300.00	11-03-65	130.	.	.	.	.	0
	Z61300.00	12-01-65	7000.	.	.	.	.	--
	Z61300.00	01-17-66	230.	.	.	.	.	0
	Z61300.00	02-02-66	7000.	.	.	.	.	--
	Z61300.00	03-02-66	230.	.	.	.	.	0
	Z61300.00	04-06-66	2400.	.	.	.	.	0
	Z61300.00	05-03-66	2400.	230.	.	.	.	< 25
	Z61300.00	07-06-66	130.	.	.	.	.	0
	Z61300.00	08-03-66	620.	.	.	.	.	0
	Z61300.00	09-05-66	6.	23.	.	.	.	< 25
Los Angeles River at Pacific Coast Highway (48)	Z61100.00	10-06-65	2400.	.	.	.	.	--
	Z61100.00	11-03-65	24.	.	.	.	.	--
	Z61100.00	12-01-65	6200.	.	.	.	.	--
	Z61100.00	01-05-66	620.	.	.	.	.	--
	Z61100.00	02-02-66	2100.	.	.	.	.	--
	Z61100.00	03-02-66	620.	.	.	.	.	--
	Z61100.00	04-06-66	62000.	.	.	.	.	--
	Z61100.00	05-03-66	130.	45.	.	.	.	65
	Z61100.00	06-01-66	13000.	.	.	.	.	0
	Z61100.00	07-06-66	.	7000.	.	.	.	--
	Z61100.00	08-03-66	500.	.	.	.	.	--
	Z61100.00	09-07-66	.	.	.	.	1.6	< 25
Rio Hondo at Whittier Narrows (49)	Z75100.00	10-08-65	2.3	50.	.	.	.	< 25
	Z75100.00	11-05-65	240.	240.	.	.	.	< 25
	Z75100.00	12-07-65	62.	230.	.	.	.	< 25
	Z75100.00	01-07-66	23.	62.	.	.	.	160
	Z75100.00	02-07-66	700.	700.	.	.	.	30

TABLE D-4

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

SOUTHERN CALIFORNIA

STATION	STATION NUMBER	DATE	COLIFORM (MPN/ML)		MBAS (MG/L)	ARSENIC (MG/L)	PHOSPHATE (MG/L)	TURBIDITY (UNITS)
Rio Hondo at Whittier Narrows (49)	Z75100.00	03-14-66	23.	23.	.	.	.	< 25
	Z75100.00	04-08-66	23.	2.3	.	.	.	< 25
	Z75100.00	05-06-66	13.	62.	.	.	.	< 25
	Z75100.00	06-03-66	2.3	23.	.	.	.	--
	Z75100.00	07-14-66	13.	130.	.	.	.	< 25
	Z75100.00	08-05-66	62.	130.	.	.	.	< 25
	Z75100.00	09-06-66	14.	23.	.	.	.	< 25
Mission Creek at Whittier Narrows (49A)	Z76150.00	01-07-66	6.2	6.2	.	.	.	40
	Z76150.00	02-07-66	620.	6.2	.	.	.	< 25
	Z76150.00	03-14-66	2.3	2.3	.	.	.	< 25
	Z76150.00	04-08-66	13.	6.2	.	.	.	< 25
	Z76150.00	05-06-66	2.3	23.	.	.	.	< 25
	Z76150.00	09-06-66	62.	240.	.	.	.	< 25
Rio Hondo Above Spreading Grounds (49B)	Z69780.00	10-08-65	23.	62.	0.28	.	3.6	< 25
	Z69780.00	11-05-65	240.	700.	0.08	.	2.2	--
	Z69780.00	12-07-65	6.	6.	.	.	.	360
	Z69780.00	01-07-66	6.2	6.2	.	.	.	280
	Z69780.00	02-07-66	23.	6.2	.	.	.	50
	Z69780.00	03-14-66	23.	6.2	.	.	.	< 25
	Z69780.00	04-08-66	62.	6.2	0.12	.	1.5	< 25
	Z69780.00	05-06-66	0.45	0.45	0.12	.	3.1	< 25
	Z69780.00	06-03-66	0.6	2.3	.	.	.	--
	Z69780.00	09-06-66	62.	240.	.	.	.	< 25
San Gabriel River at Whittier Narrows (50)	Z71100.90	12-07-65	62.	62.	.	.	.	250
	Z71100.90	01-07-66	13.	23.	.	.	.	230
	Z71100.90	02-07-66	700.	700.	.	.	.	420
	Z71100.90	03-14-66	620.	620.	.	.	.	< 25
	Z71100.90	04-08-66	230.	23.	.	.	.	< 25
	Z71100.90	05-06-66	62.	62.	.	.	.	< 25
	Z71100.90	06-03-66	240.	240.	.	.	.	--
	Z71100.90	09-06-66	620.	2400.	.	.	.	< 25
San Gabriel River at Azusa Powerhouse (50D)	Z71927.10	10-08-65	0.45	0.45	.	.	.	< 25
	Z71927.10	11-05-65	0.45	0.45	.	.	.	< 25
	Z71927.10	02-07-66	0.6	0.6	.	.	.	< 25
	Z71927.10	03-14-66	0.45	0.45	.	.	.	< 25
	Z71927.10	04-08-66	0.6	0.6	.	.	.	30
	Z71927.10	05-06-66	0.45	0.45	.	.	.	< 25
	Z71927.10	06-03-66	2.8	5.	.	.	.	--
	Z71927.10	07-14-66	0.45	0.45	.	.	.	< 25
	Z71927.10	08-05-66	0.60	0.60	.	.	.	< 25

TABLE D-4

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

SOUTHERN CALIFORNIA

STATION	STATION NUMBER	DATE	COLIFORM (MPN/ML)		MBAS (MG/L)	ARSENIC (MG/L)	PHOSPHATE (MG/L)	TURBIDITY (UNITS)
San Gabriel River at Azusa Powerhouse (50D)	Z71927.10	09-06-66	0.60	0.45	.	.	.	< 25
Ventura River Near Ventura (61)	Z11100.00	10-05-65	4.5	60.	.	.	.	< 25
	Z11100.00	12-02-65	230.	230.	.	.	.	750
	Z11100.00	01-03-66	23.	130.	.	.	.	< 25
	Z11100.00	02-01-66	0.45	620.	.	.	.	< 25
	Z11100.00	03-01-66	6.2	2.3	.	.	.	< 25
	Z11100.00	04-04-66	0.6	0.6	0.08	.	0.	< 25
	Z11100.00	05-02-66	20.	13.	.	.	.	< 25
	Z11100.00	06-01-66	6.2	2.3	.	.	.	--
	Z11100.00	07-05-66	2.3	6.2	.	.	.	< 25
	Z11100.00	08-01-66	6.2	.	.	.	.	< 25
	Z11100.00	09-05-66	700.	62.	0.01	.	0.04	< 25
Los Angeles Aqueduct Near San Fernando (70)	Z61850.05	10-19-65	.	.	.	.	.	2
	Z61850.05	11-16-65	.	.	.	0.02	.	7
	Z61850.05	12-21-65	.	.	.	0.02	.	5
	Z61850.05	01-18-66	.	.	.	0.02	.	8
	Z61850.05	02-24-66	.	.	.	0.03	.	4
	Z61850.05	03-22-66	.	.	.	0.03	.	5
	Z61850.05	04-19-66	.	.	.	0.02	.	3
	Z61850.05	05-17-66	.	.	.	0.03	.	4
	Z61850.05	06-21-66	.	.	.	0.03	.	4
	Z61850.05	07-19-66	.	.	.	0.03	.	7
	Z61850.05	08-16-66	.	.	.	0.03	.	3
	Z61850.05	09-20-66	62.	2300.	.	0.01	.	10
Mojave River Near Victorville (67)	V91620.00	10-06-65	.	.	.	.	.	500
	V91620.00	11-03-65	60.	130.	0.20	.	0.50	< 25
	V91620.00	12-03-65	130.	230.	.	.	.	30
	V91620.00	01-05-66	23.	62.	.	.	.	70
	V91620.00	02-03-66	0.6	2.3	0.28	.	0.66	< 25
	V91620.00	03-03-66	0.6	6.2	0.14	.	0.6	< 25
	V91620.00	04-06-66	9.5	62.	.	.	.	< 25
	V91620.00	05-04-66	240.	62.	.	.	.	< 25
	V91620.00	06-07-66	6.	62.	.	.	.	--
	V91620.00	07-07-66	700.	700.	.	.	.	60
	V91620.00	08-03-66	230.	62.	.	.	.	< 25
	V91620.00	09-06-66	7000.	230.	.	.	.	< 25
Mojave River at The Forks (67A)	V92150.30	10-06-65	4.5	6.	.	.	.	< 25
	V92150.30	11-03-65	0.6	6.2	.	.	.	--
	V92150.30	12-03-65	13.	23.	.	.	.	< 25
	V92150.30	01-05-66	23.	23.	.	.	.	60

TABLE D-4

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

SOUTHERN CALIFORNIA

STATION	STATION NUMBER	DATE	COLIFORM (MPN/ML)		MBAS (MG/L)	ARSENIC (MG/L)	PHOSPHATE (MG/L)	TURBIDITY (UNITS)
Mojave River at The Forks (67A)	V92150.30	02-03-66	0.45	0.6	.	.	.	< 25
	V92150.30	03-03-66	0.6	6.2	.	.	.	< 25
	V92150.30	04-06-66	6.2	6.2	.	.	.	< 25
	V92150.30	05-04-66	6.2	6.2	.	.	.	< 25
	V92150.30	06-07-66	2.3	2.3	.	.	.	--
	V92150.30	07-07-66	700.	240.	.	.	.	< 25
	V92150.30	08-03-66	4.5	23.	.	.	.	< 25
	V92150.30	09-06-66	23.	23.	.	.	.	< 25
Colorado River Near Topock, Arizona (54)	W21530.00	05-19-66	4.5	6.	.	.	.	< 25
	W21530.00	09-29-66	2.3	23.	.	.	.	< 25
Colorado River Below Parker Dam (55)	W21775.10	05-18-66	700.	240.	.	.	.	< 25
	W21775.10	09-28-66	4.5	4.5	.	.	.	< 25
Colorado River at Yuma, Arizona (56)	W71700.00	11-09-65	24.	24.	1.0	.	0.04	--
	W71700.00	01-11-66	6.2	24.	.	.	.	120
	W71700.00	03-03-66	6.2	6.2	.	.	.	< 25
	W71700.00	05-10-66	620.	2400.	.	.	.	30
	W71700.00	07-19-66	2.3	24.	.	.	.	< 25
	W71700.00	09-13-66	620.	2300.	.	.	.	30
All American Canal Above Pilot Knob Wasteway (56A)	W71929.00	11-09-65	2.3	6.2	.	.	.	--
	W71929.00	01-11-66	2.3	6.2	.	.	.	< 25
	W71929.00	03-08-66	6.2	6.2	.	.	.	< 25
	W71929.00	05-10-66	0.45	0.45	.	.	.	< 25
	W71929.00	07-19-66	13.	2.4	.	.	.	< 25
	W71929.00	09-13-66	0.46	2.3	.	.	.	< 25
Colorado River Below Morelos Dam (56B)	W71750.00	11-09-65	240.	240.	.	.	.	--
	W71750.00	01-11-66	240.	620.	.	.	.	< 25
	W71750.00	03-08-66	.	.	.	.	.	< 25
	W71750.00	05-10-66	.	.	.	.	.	< 25
	W71750.00	07-19-66	.	.	.	.	.	< 25
	W71750.00	09-13-66	.	.	.	.	.	< 25
Colorado River Near Blythe (56C)	W71870.05	05-16-66	6.	6.	.	.	.	< 25
	W71870.05	09-26-66	62.	23.	.	.	.	< 25
New River at International Boundary (57)	W91800.00	11-09-65	6200.	62000.	0.86	.	3.4	61
	W91800.00	01-11-66	6200.	6200.	0.82	.	2.3	150
	W91800.00	03-08-66	24000.	24000.	.	.	.	< 25
	W91800.00	05-10-66	.	.	.	.	.	75
	W91800.00	07-19-66	.	.	.	.	.	< 25
	W91800.00	09-13-66	.	.	.	.	.	35
New River Near Westmorland (58)	W91100.00	11-08-65	2400.	24000.	0.32	.	0.76	250
	W91100.00	01-10-66	2400.	6200.	.	.	0.7	350

TABLE D-4

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

SOUTHERN CALIFORNIA

STATION	STATION NUMBER	DATE	COLIFORM (MPN/ML)		MBAS (MG/L)	ARSENIC (MG/L)	PHOSPHATE (MG/L)	TURBIDI (UNITS)
New River Near Westmorland (58)	W91100.00	03-07-66	620.	2400.	.	.	.	250
	W91100.00	05-09-66	2400.	2400.	.	.	.	250
	W91100.00	07-18-66	620.	24000.	.	.	.	200
	W91100.00	09-12-66	2300.	23000.	.	.	.	250
Alamo River at International Boundary (59)	W92020.00	11-09-65	62.	62.	0.40	.	0.60	--
	W92020.00	01-11-66	6.2	24.	.	.	.	30
	W92020.00	03-08-66	24.	24.	0.14	.	0.10	< 25
	W92020.00	05-10-66	2400.	6200.	.	.	.	45
	W92020.00	07-19-66	620.	130.	.	.	.	< 25
	W92020.00	09-13-66	230.	620.	.	.	.	< 25
Alamo River Near Calipatria (60)	W92100.00	11-08-65	240.	620.	0.20	.	0.32	200
	W92100.00	01-10-66	62.	240.	.	.	1.10	250
	W92100.00	03-02-66	2400.	2400.	.	.	.	200
	W92100.00	05-09-66	24000.	24000.	.	.	.	350
	W92100.00	07-18-66	620.	2400.	.	.	.	100
	W92100.00	09-12-66	6200.	6200.	.	.	.	250
Whitewater River Near Whitewater (68)	W31450.00	11-08-65	23.	62.	.	.	.	< 25
	W31450.00	01-10-66	6.	13.	.	.	.	180
	W31450.00	03-07-66	62.	240.	.	.	.	250
	W31450.00	05-09-66	62.	130.	.	.	.	< 25
	W31450.00	07-18-66	23.	6.	.	.	.	< 25
	W31450.00	09-12-66	6.2	240.	.	.	.	< 25
Salton Sea at Salton Sea State Park (68A)	W51600.70	11-08-65	0.45	0.45	.	.	.	< 25
	W51600.70	01-10-66	0.45	2.3	.	.	.	40
	W51600.70	03-07-66	0.45	0.45	.	.	.	< 25
	W51600.70	05-09-66	0.45	0.60	.	.	.	< 25
	W51600.70	07-15-66	6.2	2.3	.	.	.	< 25
	W51600.70	09-12-66	0.45	0.45	.	.	.	< 25
Whitewater River Near Mecca (68B)	W31070.00	11-08-65	130.	620.	0.26	.	0.28	100
	W31070.00	01-12-66	620.	2400.	.	.	.	1000
	W31070.00	03-07-66	2300.	230.	.	.	.	150
	W31070.00	05-09-66	2300.	620.	.	.	.	225
	W31070.00	07-18-66	21000.	6200.	.	.	.	350
	W31070.00	09-12-66	6200.	13000.	.	.	.	325
Warm Creek Near Colton (50B)	Y41100.00	10-07-65	2.3	23.	1.3	.	33.	< 25
	Y41100.00	11-04-65	2.3	23.	0.88	.	27.	510
	Y41100.00	12-06-65	21.	62.	0.96	.	30.	200
	Y41100.00	01-06-66	620.	2400.	0.26	.	7.50	3800
	Y41100.00	02-04-66	23.	240.	0.28	.	7.10	190
	Y41100.00	03-04-66	62.	230.	0.40	.	10.	300

TABLE D-4

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

SOUTHERN CALIFORNIA

STATION	STATION NUMBER	DATE	COLIFORM (MPN/ML)		MBAS (MG/L)	ARSENIC (MG/L)	PHOSPHATE (MG/L)	TURBIDITY (UNITS)
arm Creek Near Colton (50B)	Y41100.00	04-07-66	7000.	2400.	0.33	.	14.50	300
	Y41100.00	05-05-66	45.	45.	0.59	.	31.05	< 25
	Y41100.00	06-08-66	4.6	4.5	1.08	.	32.00	50
	Y41100.00	07-08-66	700.	700.	0.60	.	32.00	50
	Y41100.00	08-04-66	4.5	4.5	1.00	.	26.00	50
	Y41100.00	09-07-66	6.2	13.	0.96	.	29.00	180
anta Ana River Near Arlington (51)	Y61400.00	10-07-65	.	.	0.08	.	0.16	< 25
	Y61400.00	11-04-65	23.	62.	0.06	.	0.14	--
	Y61400.00	12-06-65	23.	210.	0.11	.	0.32	120
	Y61400.00	01-06-66	2400.	2400.	0.13	.	2.20	800
	Y61400.00	02-04-66	230.	60.	0.16	.	0.50	160
	Y61400.00	03-04-66	230.	230.	0.10	.	0.40	120
	Y61400.00	04-07-66	62.	130.	0.12	.	0.40	150
	Y61400.00	05-05-66	62.	210.	.	.	.	300
	Y61400.00	06-08-66	23.	13.	0.06	.	0.34	< 25
	Y61400.00	07-08-66	240.	240.	.	.	.	< 25
	Y61400.00	08-04-66	23.	62.	0.08	.	0.22	< 25
	Y61400.00	09-07-66	62.	62.	0.08	.	0.16	< 25
anta Ana River Below Prado Dam (51A)	Y11550.00	10-07-65	.	.	0.28	.	2.60	< 25
	Y11550.00	11-04-65	45.	60.	0.32	.	3.70	--
	Y11550.00	12-06-65	2300.	70000.	0.26	.	2.60	7900
	Y11550.00	12-21-65	.	.	.	.	.	200
	Y11550.00	12-29-65	.	.	.	.	.	5000
	Y11550.00	01-06-66	2300.	2300.	0.26	.	4.10	3000
	Y11550.00	02-04-66	23000.	21000.	0.04	.	6.00	450
	Y11550.00	03-04-66	62000.	23000.	0.46	.	6.90	300
	Y11550.00	04-07-66	2300.	1300.	0.26	.	8.30	800
	Y11550.00	05-05-66	45.	230.	.	.	.	80
	Y11550.00	06-08-66	2400.	620.	0.28	.	11.00	< 25
	Y11550.00	07-13-66	500.	620.	.	.	.	85
	Y11550.00	08-04-66	230.	620.	0.18	.	4.50	100
	Y11550.00	09-07-66	230.	620.	0.21	.	7.30	110
anta Ana River Number One Tailrace Near Mentone (51B)	Y51978.00	10-06-65	6.	6.	.	.	.	< 25
	Y51978.00	11-04-65	6.2	13.	.	.	.	--
	Y51978.00	12-06-65	6.	62.	.	.	.	165
	Y51978.00	01-05-66	2.3	23.	.	.	.	100
	Y51978.00	02-04-66	2.3	0.45	.	.	.	100
	Y51978.00	03-03-66	13.	6.2	.	.	.	< 25
	Y51978.00	04-07-66	62.	5.	.	.	.	< 25
	Y51978.00	05-05-66	1.3	5.	.	.	.	< 25

TABLE D-4

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

SOUTHERN CALIFORNIA

STATION	STATION NUMBER	DATE	COLIFORM (MPN/ML)		MBAS (MG/L)	ARSENIC (MG/L)	PHOSPHATE (MG/L)	TURBIDI (UNITS)
Santa Ana River Number One Tailrace Near Mentone (51B)	Y51978.00	06-08-66	2.3	23.	.	.	.	< 25
	Y51978.00	07-08-66	23.	2.3	.	.	.	< 25
	Y51978.00	08-03-66	0.60	23.	.	.	.	< 25
	Y51978.00	09-06-66	13.	13.	.	.	.	< 25
Santa Ana River Near Norco (51E)	Y61225.00	10-07-65	.	.	0.56	.	10.00	< 25
	Y61225.00	11-04-65	230.	500.	0.34	.	6.30	--
	Y61225.00	12-06-65	23.	62.	0.42	.	9.00	100
	Y61225.00	01-06-66	700.	700.	0.42	.	10.00	700
	Y61225.00	02-04-66	62.	62.	0.50	.	11.00	80
	Y61225.00	03-04-66	230.	230.	0.50	.	11.00	75
	Y61225.00	04-07-66	62.	230.	0.28	.	11.00	40
	Y61225.00	05-05-66	210.	7000.	.	.	.	40
	Y61225.00	06-08-66	620.	620.	0.44	.	15.00	< 25
	Y61225.00	07-08-66	6200.	620.	.	.	.	< 25
	Y61225.00	08-04-66	230.	620.	0.27	.	2.75	< 25
	Y61225.00	09-07-66	2400.	620.	0.30	.	12.00	< 25
Santa Ana River at Colton (51F)	Y51080.00	10-07-65	.	.	0.80	.	33.00	400
	Y51080.00	11-04-65	6.2	6.2	1.00	.	29.00	--
	Y51080.00	12-06-65	230.	620.	0.94	.	32.00	600
	Y51080.00	01-06-66	23.	62.	0.56	.	14.00	3300
	Y51080.00	02-04-66	62.	130.	0.56	.	13.00	320
	Y51080.00	03-04-66	62.	13.	0.70	.	15.00	300
	Y51080.00	04-07-66	700.	240.	0.20	.	8.80	225
	Y51080.00	05-05-66	4.5	4.5	0.64	.	33.00	80
	Y51080.00	06-08-66	2.3	2.3	1.30	.	32.00	40
	Y51080.00	07-08-66	23.	240.	0.56	.	31.00	40
	Y51080.00	08-04-66	2.3	0.45	1.04	.	26.00	80
	Y51080.00	09-07-66	700.	700.	0.76	.	29.00	260
San Timoteo Creek at Waterman Avenue Near San Bernardino (51G)	Y71145.00	10-07-65	62.	62.	1.60	.	8.00	150
	Y71145.00	11-04-65	62.	240.	.	.	.	150
	Y71145.00	12-06-65	50.	62.	0.56	.	46.00	150
	Y71145.00	01-06-66	0.45	0.60	0.84	.	25.00	200
	Y71145.00	02-04-66	62.	0.60	2.10	.	28.00	140
	Y71145.00	04-07-66	700.	700.	0.04	.	0.82	825
	Y71145.00	05-05-66	130.	230.	0.09	.	0.70	< 25
	Y71145.00	06-08-66	7000.	7000.	0.04	.	0.34	< 25
	Y71145.00	07-08-66	2300.	2300.	.	.	.	< 25
	Y71145.00	08-04-66	45.	60.	0.13	.	0.26	< 25
	Y71145.00	09-06-66	60.	60.	0.04	.	0.45	< 25
Chino Creek Near Chino (86)	Y21210.05	10-07-65	6.	1300.	0.80	.	8.00	< 25

TABLE D-4

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

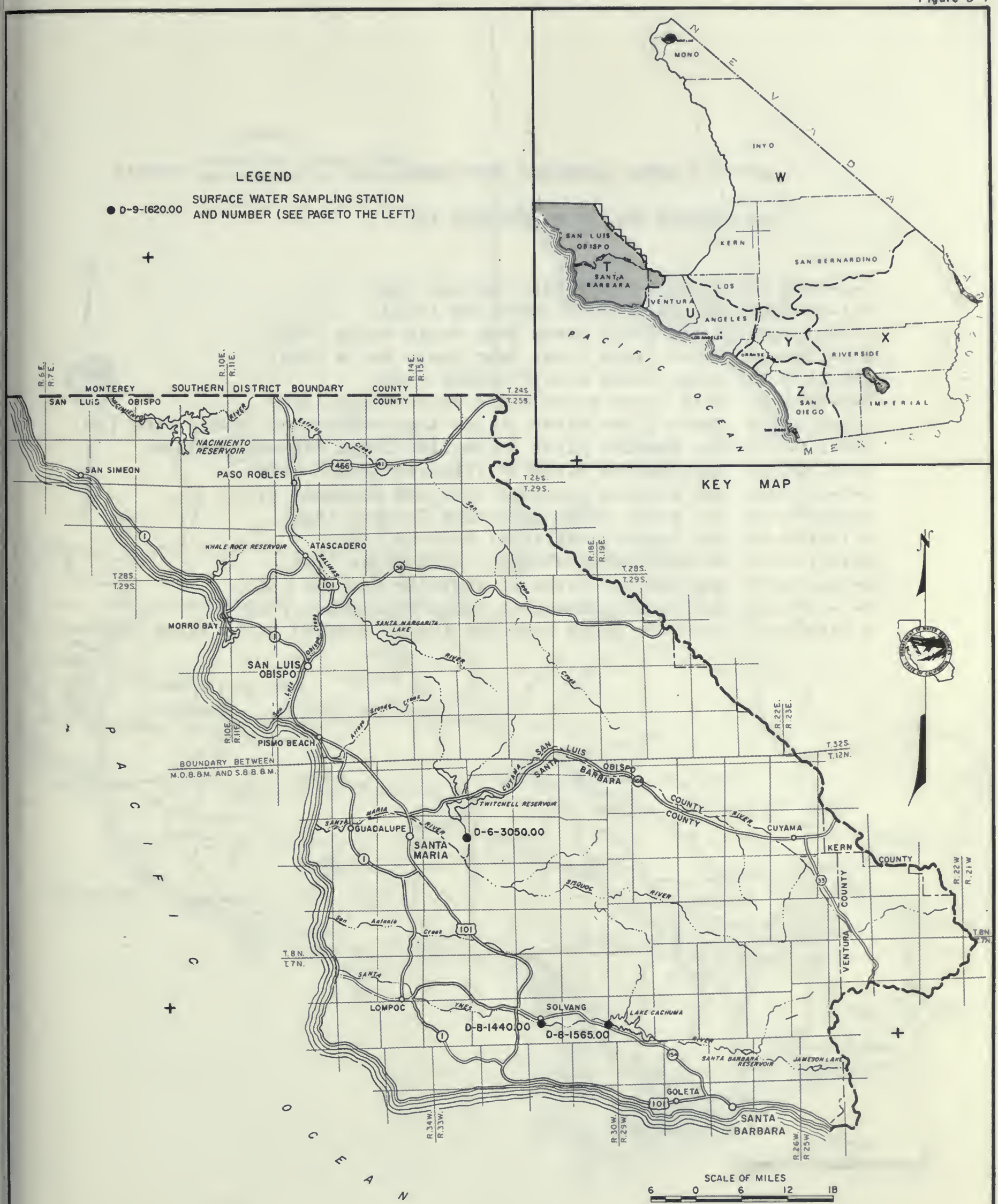
SOUTHERN CALIFORNIA

STATION	STATION NUMBER	DATE	COLIFORM (MPN/ML)		MBAS (MG/L)	ARSENIC (MG/L)	PHOSPHATE (MG/L)	TURBIDITY (UNITS)
Chino Creek Near Chino (86)	Y21210.05	11-04-65	230.	620.	1.40	.	14.00	--
	Y21210.05	12-06-65	62.	620.	0.80	.	9.50	80
	Y21210.05	01-06-66	620.	620.	0.28	.	3.00	80
	Y21210.05	02-04-66	230.	620.	0.48	.	4.50	55
	Y21210.05	03-04-66	620.	620.	0.76	.	30.00	200
	Y21210.05	04-07-66	7000.	7000.	0.19	.	4.60	< 25
	Y21210.05	05-05-66	620.	2300.	0.36	.	11.00	30
	Y21210.05	06-08-66	24000.	70000.	0.18	.	23.00	60
	Y21210.05	07-13-66	600.	2300.	.	.	.	35
	Y21210.05	08-04-66	6200.	2300.	0.28	.	16.00	100
Lake Elsinore at State Park (89)	Y82200.00	11-10-65	13.	23.	.	.	.	750
	Y82200.00	01-13-66	0.60	1.3	.	.	.	180
	Y82200.00	03-10-66	0.60	2.3	.	.	.	70
	Y82200.00	05-19-66	0.60	2.3	.	.	.	70
	Y82200.00	07-20-66	6.2	0.45	.	.	.	100
	Y82200.00	09-14-66	62.	6.2	.	.	.	180
Santa Margarita River Near Fallbrook (51C)	X21350.00	11-10-65	6.2	5.	.	.	.	< 25
	X21350.00	01-13-66	2.3	23.	.	.	.	< 25
	X21350.00	03-10-66	0.6	1.3	.	.	.	< 25
	X21350.00	05-12-66	13.	2.3	.	.	.	< 25
	X21350.00	07-20-66	23.	62.	.	.	.	< 25
	X21350.00	09-14-66	23.	13.	.	.	.	< 25
San Luis Rey River at Pala (62)	X31345.00	01-13-66	6.	23.	.	.	.	45
	X31345.00	03-10-66	0.6	0.6	0.04	.	0.08	< 25
Escondido Creek Near Harmony Grove (63)	X43400.05	11-10-65	62.	230.	1.00	.	32.00	870
	X43400.05	01-13-66	6.	62.	1.10	.	23.00	110
	X43400.05	03-10-66	13.	6.2	0.84	.	5.10	210
	X43400.05	05-12-66	700.	700.	0.48	.	27.00	< 25
	X43400.05	07-20-66	2400.	2400.	.	.	.	< 25
	X43400.05	09-14-66	230.	60.	0.48	.	26.00	< 25
San Diego River at Old Mission Dam (65)	X51230.30	11-10-65	23.	23.	1.00	.	1.30	110
	X51230.30	01-12-66	23.	240.	0.54	.	4.60	270
	X51230.30	03-09-66	62.	62.	.	.	.	2000
	X51230.30	05-11-66	130.	700.	.	.	.	120
	X51230.30	07-20-66	62.	62.	.	.	.	25
Spring Valley Creek Near La Pressa (65B)	X62020.05	11-10-65	6.2	6.2	0.64	.	0.32	< 25
	X62020.05	01-12-66	23.	62.	.	.	.	< 25
	X62020.05	03-09-66	240.	23.	1.05	.	0.36	< 25
	X62020.05	07-20-66	240.	23.	.	.	.	< 25
Tia Juana River at International Boundary (66)	X81100.40	03-10-66	70000.	24000.	.	.	.	1000

SURFACE WATER SAMPLING STATIONS

CENTRAL COASTAL DRAINAGE PROVINCE (T)

D-6-3050.00	Cuyama River Near Garey (44A)
D-8-1440.00	Santa Ynez River Near Solvang (45A)
D-8-1565.00	Lake Cachuma Near Santa Ynez (44B)



LOCATION OF SURFACE WATER SAMPLING STATIONS
CENTRAL COASTAL DRAINAGE PROVINCE (T)

DEPARTMENT OF WATER RESOURCES, SOUTHERN DISTRICT, 1968

SURFACE WATER SAMPLING STATIONS

LOS ANGELES DRAINAGE PROVINCE (U)

Z-1-1100.00	Ventura River Near Ventura (61)
Z-1-5500.00	Matilija Creek Above Dam (45B)
Z-2-1300.00	Santa Paula Creek Near Santa Paula (46E)
Z-2-1360.10	Santa Clara River Near Santa Paula (46A)
Z-2-2150.00	Sespe Creek Near Fillmore (46D)
Z-2-3240.00	Piru Creek Below Santa Felicia Dam (46H)
Z-3-1135.00	Santa Clara River at Los Angeles-Ventura County Line (46)
Z-6-1100.00	Los Angeles River at Pacific Coast Highway (48)
Z-6-1300.00	Los Angeles River at Figueroa Street (47)
Z-6-1850.05	Los Angeles Aqueduct Near San Fernando (70)
Z-6-9780.00	Rio Hondo Above Spreading Grounds (49B)
Z-7-5100.00	Rio Hondo at Whittier Narrows (49)
Z-7-6150.00	Mission Creek at Whittier Narrows (49A)
Z-7-1100.90	San Gabriel River at Whittier Narrows (50)
Z-7-1927.10	San Gabriel River at Azusa Powerhouse (50D)
W-2-1985.05	Colorado River Aqueduct (Upper Feeder) at La Verne (69)

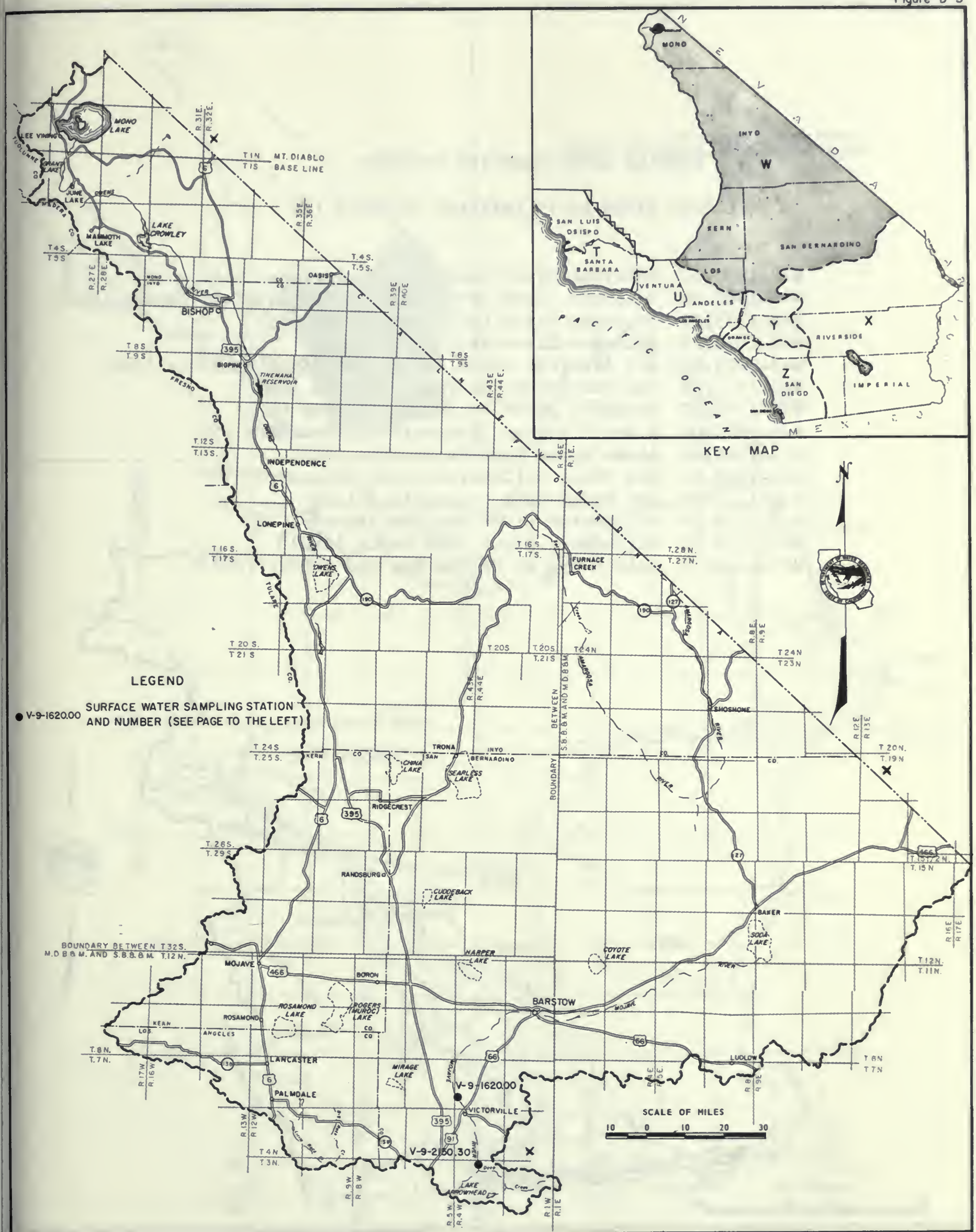
LOCATION OF SURFACE WATER SAMPLING STATIONS
LOS ANGELES DRAINAGE PROVINCE (U)

DEPARTMENT OF WATER RESOURCES, SOUTHERN DISTRICT, 1968

SURFACE WATER SAMPLING STATIONS

LAHONTAN DRAINAGE PROVINCE (W)

V-9-2150.30 Mojave River at The Forks (67A)
V-9-1620.00 Mojave River Near Victorville (67)



LOCATION OF SURFACE WATER SAMPLING STATIONS

LAHONTAN DRAINAGE PROVINCE (W)

DEPARTMENT OF WATER RESOURCES, SOUTHERN DISTRICT, 1968

SURFACE WATER SAMPLING STATIONS

COLORADO RIVER BASIN DRAINAGE PROVINCE (X)

W-2-1530.00	Colorado River Near Topock, Arizona (54)
W-2-1960.00	Colorado River at Colorado River Aqueduct Intake (56D)
W-2-1775.10	Colorado River Below Parker Dam (55)
W-7-1870.05	Colorado River Near Blythe (56C)
W-7-1929.00	All American Canal Above Pilot Knob Wasteway (56A)
W-7-1700.00	Colorado River at Yuma, Arizona (56)
W-7-1750.00	Colorado River Below Morelos Dam (56B)
W-9-2020.00	Alamo River at International Boundary (59)
W-9-2100.00	Alamo River Near Calipatria (60)
W-9-1800.00	New River at International Boundary (57)
W-9-1100.00	New River Near Westmorland (58)
W-3-1450.00	Whitewater River Near Whitewater (68)
W-3-1070.00	Whitewater River Near Mecca (68B)
W-5-1600.70	Salton Sea at Salton Sea State Park (68A)

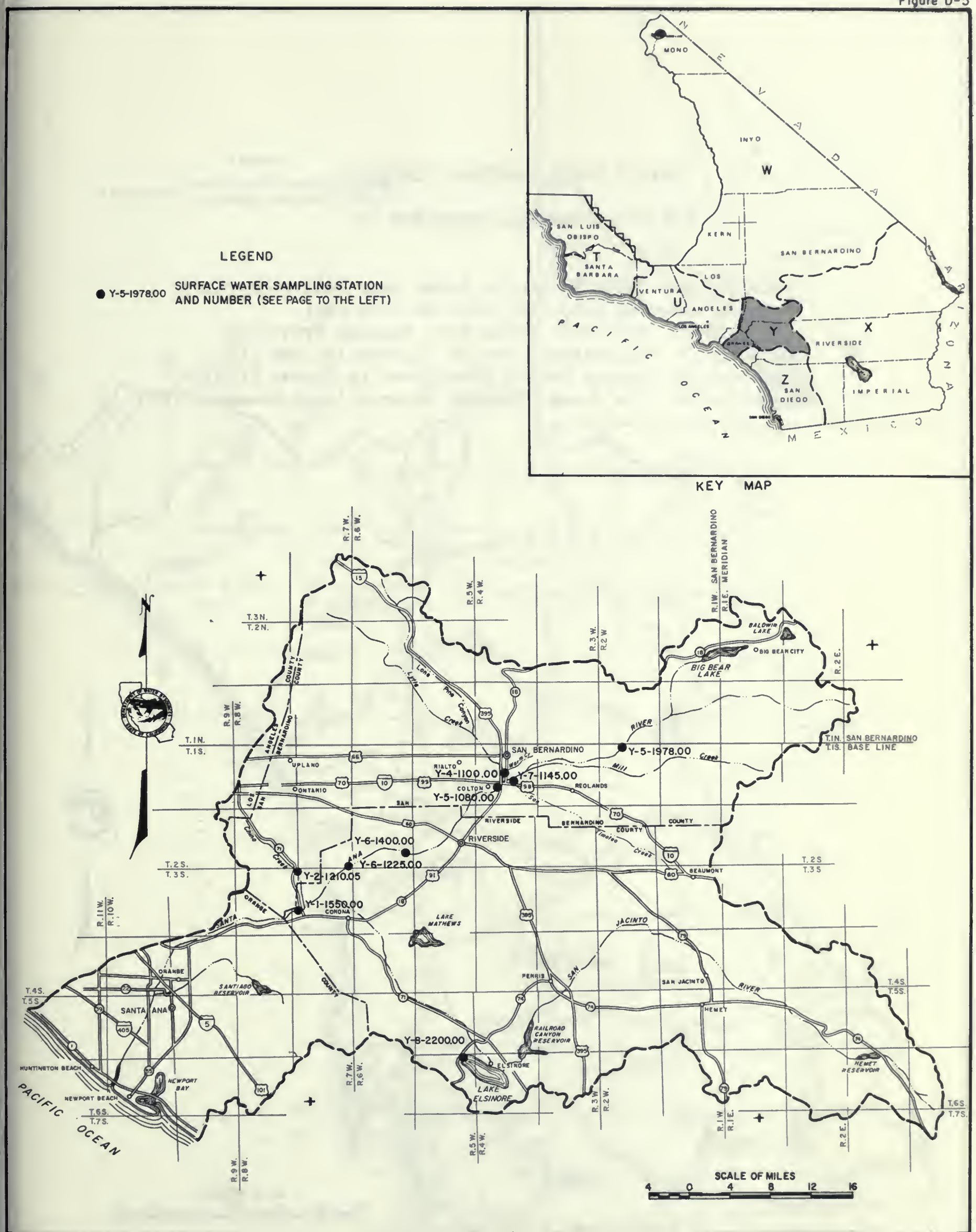
LOCATION OF SURFACE WATER SAMPLING STATIONS
COLORADO RIVER BASIN DRAINAGE PROVINCE (X)

DEPARTMENT OF WATER RESOURCES, SOUTHERN DISTRICT, 1968

SURFACE WATER SAMPLING STATIONS

SANTA ANA DRAINAGE PROVINCE (Y)

Y-5-1978.00	Santa Ana River Number One Tailrace Near Mentone (51B)
Y-7-1145.00	San Timoteo Creek at Waterman Avenue Near San Bernardino (51G)
Y-4-1100.00	Warm Creek Near Colton (50B)
Y-5-1080.00	Santa Ana River at Colton (51F)
Y-6-1400.00	Santa Ana River Near Arlington (51)
Y-6-1225.00	Santa Ana River Near Norco (51E)
Y-2-1210.05	Chino Creek Near Chino (86)
Y-1-1550.00	Santa Ana River Below Prado Dam (51A)
Y-8-2200.00	Lake Elsinore at State Park (89)



LOCATION OF SURFACE WATER SAMPLING STATIONS
SANTA ANA DRAINAGE PROVINCE (Y)

DEPARTMENT OF WATER RESOURCES, SOUTHERN DISTRICT, 1968

SURFACE WATER SAMPLING STATIONS

SAN DIEGO DRAINAGE PROVINCE (Z)

X-2-1350.00	Santa Margarita River Near Fallbrook (51C)
X-3-1345.00	San Luis Rey River at Pala (62)
X-4-3400.05	Escondido Creek Near Harmony Grove (63)
X-5-1230.30	San Diego River at Old Mission Dam (65)
X-6-2020.05	Spring Valley Creek Near La Pressa (65B)
X-8-1100.40	Tia Juana River at International Boundary (66)

LOCATION OF SURFACE WATER SAMPLING STATIONS
SAN DIEGO DRAINAGE PROVINCE (Z)

DEPARTMENT OF WATER RESOURCES, SOUTHERN DISTRICT, 1968

Appendix E

GROUND WATER QUALITY

Appendix E

GROUND WATER QUALITY

This appendix presents ground water quality data collected during the period from October 1, 1965, through September 30, 1966. The data were collected from a number of major ground water sources in Southern California in cooperation with other state, local, and federal agencies. Approximately 2,000 wells were sampled during the 1966 water year.

At the time of field sampling, a temperature measurement is normally made. Comments on current conditions are noted in field books which are available in the files of the Department of Water Resources, Southern District.

Laboratory analyses of ground waters were performed in accordance with "Standard Methods for the Examination of Water and Waste Water", prepared and published jointly by the American Public Health Association, American Water Works Association, and Water Pollution Control Federation, 12th Edition, 1965. In some cases, the methods used were those presented in the U. S. Geological Survey Water Supply Paper 1454, "Methods for Collection and Analysis of Water Samples", 1960.

Two numbering systems are used by the Department to facilitate processing of water quality data. The two systems are the Areal Designation and the State Well Numbering systems as described below.

The Areal Designation System comprises a series of major drainage provinces which are further subdivided into hydrologic units, hydrologic subunits, and hydrologic subareas. A coding system of the form U-04.A2 has been developed as follows:

U-04.A2

Drainage Province (Los Angeles)

Hydrologic Unit (Malibu)

Hydrologic Subunit (Topanga)

Hydrologic Subarea (Tuna Canyon)

Figures E-1 through E-6 show the location and code number of the hydrologic subdivision in each drainage province.

The State Well Numbering System is based on township, range, and section subdivisions of the Public Land Survey. The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below:

10N / 11E - 08 K 04 S

Township

Range

Section

Tract

Sequence Number

Base and Meridian

This number identifies and locates the well. In the example, the well is in Township 10 North, Range 11 East, Tract K of Section 8, located in the San Bernardino Base and Meridian. A section is divided into 40-acre tracts as follows:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Sequence numbers in a tract are generally assigned in chronological order. The example designates the fourth well to be assigned a number in Tract K.

TABLE E-1 MINERAL ANALYSES OF GROUND WATER

An explanation of column headings follows:

EC x 10^6 - The specific conductance in micromhos at 25° Centigrade.

TDS - Gravimetric determination of total dissolved solids in milligrams per liter.

Comp - Total dissolved solids determined by addition of analyzed constituents.

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C 105C COMP	HARDNESS CACO3
PASO ROBLES HYDRO SUBUNIT				T09H0				SALINAS HYDRO UNIT			T0900						
24S/12E-17L 2 M	--	8.0	1443	104	62	132	5	0	266	493	48	6.0	0.7	0.44	--	1070	515
10-18-65				5.19	5.10	5.74	0.13		4.36	10.26	1.35	0.10					
				32	32	36	1		27	64	8	1				982	
24S/15E-17F 1 M	75	8.1	1637	47	101	175	4	0	482	309	141	4	0.5	1.40	--	1015	533
10-21-65				2.35	8.31	7.61	0.10		7.90	6.43	3.98	0.06					
				13	45	41	1		43	35	22					1020	
25S/12E-16N 1 M	74	8.1	2032	99	108	194	3	0	267	534	228	8.0	0.6	0.66	--	1410	692
10-17-65				4.94	8.88	8.44	0.08		4.38	11.12	6.43	0.13					
				22	40	38			20	50	29	1				1306	
25S/12E-28N 1 M	61	8.2	796	39	38	74	2	0	292	76	60	15.0	0.5	0.44	--	470	254
10-17-65				1.95	3.13	3.22	0.05		4.79	1.58	1.69	0.24					
				23	37	39	1		58	19	20	3				448	
25S/13E-19R 1 M	72	8.5	531	35	28	34	2	8	220	10	38	23.0	0.7	0.08	--	298	203
10-18-65				1.75	2.30	1.48	0.05	0.27	3.61	0.21	1.07	0.37					
				31	41	27	1	5	65	4	19	7				287	
25S/14E-33Q 1 M	65	8.3	622	29	22	76	3	0	307	40	23	3	0.6	0.48	--	354	163
10-21-65				1.45	1.81	3.30	0.08		5.03	0.83	0.65	0.05					
				22	27	50	1		77	13	10	1				348	
25S/15E- 2C 2 M	70	8.0	1695	60	97	178	4	0	565	255	148	6	0.4	1.43	--	1086	549
10-12-65				2.99	7.98	7.74	0.10		9.26	5.31	4.17	0.10					
				16	42	41	1		49	28	22	1				1028	
25S/15E-21G 1 M	--	8.3	529	32	18	52	2	0	202	21	45	23	0.7	0.24	--	322	154
10-12-65				1.60	1.48	2.26	0.05		3.31	0.44	1.27	0.37					
				30	27	42	1		61	8	24	7				293	
25S/16E-31J 1 M	70	8.3	1277	53	25	191	3	8	281	247	113	4	0.8	1.60	--	779	235
10-12-65				2.64	2.06	8.30	0.08	0.27	4.61	5.14	3.19	0.06					
				20	16	63	1	2	35	39	24					785	
26S/12E-22P 2 M	67	8.4	693	34	25	78	2	10	260	33	62	14.0	0.4	0.26	--	380	188
10-19-65				1.70	2.06	3.39	0.05	0.33	4.26	0.69	1.75	0.23					
				24	29	47	1	5	59	10	24	3				386	
26S/13E-11F 1 M	75	8.3	1082	45	31	153	3	0	350	171	75	4	0.5	0.92	--	668	240
10-21-65				2.25	2.55	6.65	0.08		5.74	3.56	2.12	0.06					
				20	22	58	1		50	31	18	1				655	
26S/13E-28L 2 M	71	8.3	554	26	22	60	2	10	232	22	42	1.0	0.5	0.32	--	310	156
10-19-65				1.30	1.81	2.61	0.05	0.33	3.80	0.46	1.18	0.02					
				23	31	45	1	6	66	8	20					300	
26S/14E-35D 1 M	69	7.6	490	45	9	45	3	0	157	21	61	17.0	0.8	0.23	--	288	150
10-21-65				2.25	0.74	1.96	0.08		2.57	0.44	1.72	0.27					
				45	15	39	2		51	9	34	5				279	
26S/15E-28Q 2 M	70	7.7	4490	394	124	520	6	0	337	1414	626	0	1.1	1.65	--	3478	1494
10-21-65				19.66	10.20	22.61	0.15		5.52	29.44	17.65						
				37	19	43			10	56	34					3252	
26S/16E-15G 1 M	--	8.1	348	31	14	19	1	0	171	6	17	16	0.4	0.12	--	171	135
10-12-65				1.55	1.15	0.83	0.03		2.80	0.12	0.48	0.26					
				44	32	23	1		77	3	13	7				189	
26S/16E-31B 1 M	74	8.4	1627	36	21	300	2	8	317	366	102	46	1.2	2.35	--	1055	177
10-21-65				1.80	1.73	13.04	0.05	0.27	5.20	7.62	2.88	0.74					
				11	10	78		2	31	46	17	4				1040	
27S/12E- 3C 2 M	59	8.4	733	57	36	42	2	10	279	18	78	9.0	0.3	0.10	--	410	290
10-19-65				2.84	2.96	1.83	0.05	0.33	4.57	0.37	2.20	0.15					
				37	39	24	1	4	60	5	29	2				390	
27S/13E- 9K 1 M	84	8.4	906	6	3	200	2	5	355	88	51	2	1.7	3.20	--	570	28
10-19-65				0.30	0.25	8.70	0.05	0.17	5.82	1.83	1.44	0.03					
				3	3	94	1	2	63	20	16					536	
27S/13E-36R 1 M	70	7.7	492	61	9	26	2	0	213	15	34	14	0.4	0.05	--	306	189
10-21-65				3.04	0.74	1.13	0.05		3.49	0.31	0.96	0.23					
				61	15	23	1		70	6	19	5				266	
27S/15E-13A 1 M	64	7.9	4700	182	61	737	6	0	246	869	862	32	0.9	3.50	--	3408	706
10-22-65				9.08	5.02	32.04	0.15		4.03	18.09	24.31	0.52					
				20	11	69			9	39	52	1				2874	
27S/16E-23N51 M	66	8.3	790	36	9	128	5	25	221	71	66	14.0	0.5	0.47	--	464	127
10-22-65				1.80	0.74	5.57	0.13	0.83	3.62	1.48	1.86	0.23					
				22	9	68	2	10	45	18	23	3				464	
28S/13E-31R 2 M	60	7.9	776	66	43	38	2	0	304	119	34	3.0	0.4	0.04	--	452	342
10-14-65				3.29	3.54	1.65	0.05		4.98	2.48	0.96	0.05					
				39	42	19	1		59	29	11	1				455	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
SALINAS HYDRO UNIT T0900																	
PASO ROBLES HYDRO SUBUNIT T09H0																	
28S/16E-14Q 1 M	66	8.2	556	56	21	32	2	0	185	98	22	9.3	0.4	0.05	--	375	226
10-22-65				2.79	1.73	1.39	0.05		3.03	2.04	0.62	0.15					
				47	29	23	1		52	35	11	3				332	
28S/18E-20E 1 M	67	8.3	721	55	17	65	2	0	184	45	64	88	0.5	0.36	--	420	207
10-12-65				2.74	1.40	2.83	0.05		3.02	0.94	1.80	1.42					
				39	20	40	1		42	13	25	20				427	
29S/12E- 8B 1 M	--	7.8	910	56	30	92	3	0	413	72	36	2	0.1	0.25	--	832	263
10-10-65				2.79	2.47	4.00	0.08		6.77	1.50	1.02	0.03					
				30	26	43	1		73	16	11					494	
29S/14E-26A 1 M	--	7.9	704	72	12	52	2	0	237	50	63	19	0.3	0.04	--	410	229
10-13-65				3.59	0.99	2.26	0.05		3.88	1.04	1.78	0.31					
				52	14	33	1		55	15	25	4				387	
29S/14E-26A 2 M	--	7.6	509	50	10	39	1	0	193	29	45	5	0.2	0.02	--	316	166
10-13-65				2.50	0.82	1.70	0.03		3.16	0.60	1.27	0.08					
				50	16	34	1		62	12	25	2				274	
POZO HYDRO SUBUNIT T0910																	
30S/15E-21E 1 M	--	7.7	790	63	30	48	1	0	214	145	38	28	0.2	0.23	--	592	281
10-10-65				3.14	2.47	2.09	0.03		3.51	3.02	1.07	0.45					
				41	32	27			44	38	13	6				459	
30S/16E-29F 1 M	--	7.8	890	86	41	30	2	0	291	187	25	0	0.5	0.12	--	676	383
10-10-65				4.29	3.37	1.30	0.05		4.77	3.89	0.71						
				48	37	14	1		51	42	8					515	
CAMBRIA HYDRO SUBUNIT T10A0																	
SAN CARPOFORO HYDRO SUBAREA T10A1																	
25S/ 6E-16A 2 M	57	8.4	436	40	28	11	1	8	223	25	13	0	0.2	0.08	--	248	215
10- 5-65				2.00	2.30	0.48	0.03	0.27	3.65	0.52	0.37						
				42	48	10	1	6	76	11	8					236	
ARROYO DE LA CRUZ HYDRO SUBAREA T10A2																	
25S/ 6E-28AS1 M	65	7.9	667	23	45	40	0	0	228	15	87	3	0.1	0	--	385	243
11-30-65				1.15	3.70	1.74			3.74	0.31	2.45	0.05					
				17	56	26			57	5	37	1				325	
25S/ 6E-34K 1 M	59	8.4	532	--	--	--	--	3	265	--	18	1.0	--	--	--		
9-26-66								0.10	4.34		0.51	0.02					
	58	8.3	468	34	32	18	1	0	240	31	18	1.0	0.2	0.12	--	241	217
10- 5-65				1.70	2.63	0.78	0.03		3.93	0.65	0.51	0.02					
				33	51	15	1		77	13	10					253	
25S/ 6E-35N 1 M	--	7.8	420	35	25	11	1	0	195	24	19	2	0.2	0.09	--	224	191
11-30-65				1.75	2.06	0.48	0.03		3.20	0.50	0.54	0.03					
				41	48	11	1		75	12	13	1				213	
SAN SIMEON HYDRO SUBAREA T10A3																	
26S/ 6E-14AS1 M	--	8.3	729	22	20	83	1	2	93	27	144	17	0.2	0.02	--	368	137
10-13-65				1.10	1.64	3.61	0.03	0.07	1.52	0.56	4.06	0.27					
				17	26	57		1	23	9	63	4				362	
26S/ 7E-26C 1 M	64	8.3	969	78	50	44	2	0	380	29	112	0.7	--	0.10	--	598	400
9-26-66				3.89	4.11	1.91	0.05		6.23	0.60	3.16	0.01					
				39	41	19	1		62	6	32					503	
26S/ 7E-36BS1 M	62	8.0	1085	11	19	171	1	0	82	39	254	9	0.4	0.03	--	550	106
12- 1-65				0.55	1.56	7.44	0.03		1.34	0.81	7.16	0.15					
				6	16	78			14	9	76	2				545	
27S/ 8E- 6G 1 M	58	8.2	606	--	--	--	--	0	300	--	20	2.1	--	--	--		
9-26-66									4.92		0.56	0.03					
27S/ 8E- 6A 2 M	--	7.4	613	47	42	17	1	0	289	41	29	3	0.3	0.12	--	338	290
12- 2-65				2.35	3.45	0.74	0.03		4.74	0.85	0.82	0.05					
				36	53	11			73	13	13	1				323	
27S/ 8E- 9J 1 M	63	8.3	574	52	34	17	1	0	289	44	16	3.2	--	0.20	--	327	270
9-26-66				2.59	2.80	0.74	0.03		4.74	0.92	0.45	0.05					
				42	45	12			77	15	7	1				310	
27S/ 8E- 9P 2 M	--	8.4	597	54	35	18	1	2	298	43	19	2.4	--	0.20	--	339	279
9-26-66				2.69	2.88	0.78	0.03	0.07	4.88	0.90	0.54	0.04					
				42	45	12		1	76	14	8	1				321	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
SAN LUIS OBISPO HYDRO UNIT T1000																	
CAMBRIA HYDRO SUBUNIT T10A0																	
SAN SIMEON HYDRO SUBAREA T10A3																	
27S/ 8E- 9J 1 M	--	8.0	546	48	33	16	1	0	270	39	19	2	0.3	0.13	--	298	256
12- 3-65				2.40	2.71	0.70	0.03		4.43	0.81	0.54	0.03					
				41	46	12	1		76	14	9	1				291	
27S/ 8E-17A 1 M	--	8.4	1218	37	33	159	4	10	280	47	204	0.5	0.5	0.31	--	655	228
12- 3-65				1.85	2.71	6.91	0.10	0.33	4.59	0.98	5.75	0.01					
				16	23	60	1	3	39	8	49					633	
27S/ 8E-26D 1 M	64	7.9	1250	95	71	50	1	0	507	125	67	4	0.6	0.20	--	756	529
12- 7-65				4.74	5.84	2.17	0.03		8.31	2.60	1.89	0.06					
				37	46	17			65	20	15					663	
SANTA ROSA HYDRO SUBAREA T10A4																	
26S/ 7E-20D 1 M	--	8.2	3773	84	130	482	2	6	187	104	1048	15	0.6	0.06	--	2210	745
12- 2-65				4.19	10.69	20.96	0.05	0.20	3.06	2.17	29.55	0.24					
				12	30	58		1	9	6	84	1				1964	
27S/ 8E-21R 3 M	58	8.0	1300	--	--	--	--	0	562	--	98	0.7	--	--	--		
9-26-66									9.21		2.76	0.01					
	56	8.1	1056	50	80	59	4	0	441	107	79	0.0	0.3	0.18	--	587	454
10- 5-65				2.50	6.58	2.57	0.10		7.23	2.23	2.23						
				21	56	22	1		62	19	19					596	
27S/ 8E-26C 5 M	--	8.4	1120	90	74	50	2	6	521	113	55	3.6	--	0.20	--	595	529
9-27-66				4.49	6.09	2.17	0.05	0.20	8.54	2.35	1.55	0.06					
				35	48	17		2	67	19	12					650	
27S/ 8E-26D 1 M	59	7.9	1180	--	--	--	--	0	501	--	73	3.5	--	--	--		
9-26-66									8.21		2.06	0.06					
27S/ 8E-27G 1 M	58	8.2	1118	93	74	47	1	--	499	120	73	3	0.4	0.18	--	648	537
7-20-66				4.64	6.09	2.04	0.03		8.18	2.50	2.06	0.05					
				36	48	16			64	20	16					657	
27S/ 8E-34HS1 M	64	7.6	1400	59	60	140	1	0	221	29	311	35.0	0.5	0	--	884	394
12- 7-65				2.94	4.93	6.09	0.03		3.62	0.60	8.77	0.56					
				21	35	44			27	4	65	4				744	
27S/ 8E-36LS1 M	--	8.1	1241	80	88	74	1	0	710	16	83	2	0.6	0.18	--	670	562
12- 7-65				3.99	7.24	3.22	0.03		11.64	0.33	2.34	0.03					
				28	50	22			81	2	16					694	
27S/ 9E- 4E 1 M	--	8.4	1200	90	64	48	1	33	530	11	55	7.0	0.5	0.16	--	624	488
12- 7-65				4.49	5.26	2.09	0.03	1.10	8.69	0.23	1.55	0.11					
				38	44	18		9	74	2	13	1				570	
27S/ 9E-19M 1 M	--	8.2	1420	122	85	30	1	62	543	109	45	3	0.4	0.26	--	864	655
12- 7-65				6.09	6.99	1.30	0.03	2.07	8.90	2.27	1.27	0.05					
				42	49	9		14	61	16	9					725	
27S/ 9E-21B 1 M	--	8.1	570	63	27	5	5	0	152	67	53	2	0.4	0.20	--	392	268
12- 6-65				3.14	2.22	0.22	0.13		2.49	1.39	1.49	0.03					
				55	39	4	2		46	26	28	1				297	
27S/ 9E-32P 1 M	--	8.2	980	100	49	67	1	22	424	121	59	7.0	0.7	0.09	--	644	451
12- 7-65				4.99	4.03	2.91	0.03	0.73	6.95	2.52	1.66	0.11					
				42	34	24		6	58	21	14	1				635	
28S/ 9E- 8Q 1 M	--	8.4	1343	59	61	132	1	12	359	32	227	1	0.6	0.85	--	707	398
12- 3-65				2.94	5.02	5.74	0.03	0.40	5.88	0.67	6.40	0.02					
				21	37	42		3	44	5	48					703	
VILLA HYDRO SUBAREA T10A5																	
27S/ 9E-34L 1 M	--	7.3	400	36	17	15	1	0	145	9	21	21	0.4	0.05	--	284	160
12- 7-65				1.80	1.40	0.65	0.03		2.38	0.19	0.59	0.34					
				46	36	17	1		68	5	17	10				192	
28S/ 9E-10L 1 M	--	7.5	480	41	18	25	1	0	202	15	31	7.0	0.8	0.08	--	260	177
12- 8-65				2.05	1.48	1.09	0.03		3.31	0.31	0.87	0.11					
				44	32	23	1		72	7	19	2				238	
28S/ 9E-22N 1 M	67	7.9	2220	113	95	190	2	0	585	77	365	3	0.5	0.52	--	1252	673
12- 7-65				5.64	7.81	8.26	0.05		9.59	1.60	10.29	0.05					
				26	36	38			45	7	48					1134	
28S/ 9E-23E 1 M	--	8.4	1220	80	57	70	1	14	211	222	106	3	0.6	0.54	--	580	434
12- 7-65				3.99	4.69	3.04	0.03	0.47	3.46	4.62	2.99	0.05					
				34	40	26		4	30	40	26					658	
28S/ 9E-26E 1 M	63	8.1	1930	--	--	--	--	0	458	--	278	131	--	--	--		
9-26-66									7.51		7.84	2.11					

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
SAN LUIS OBISPO HYDRO UNIT T1000																	
CAMBRIA HYDRO SUBUNIT T10A0																	
VILLA HYDRO SUBAREA T10A5																	
28S/ 9E-26E 1 M	65	8.0	1798	57	86	182	1	0	359	66	293	143	0.6	0.50	--	1104	496
10- 4-65				2.84	7.07	7.91	0.03		5.88	1.37	8.26	2.31					
				16	40	44			33	8	46	13				1006	
28S/ 9E-26N 3 M	63	7.9	950	72	42	43	2	0	371	69	53	3	0.4	0.16	--	460	352
12- 7-65				3.59	3.45	1.87	0.05		6.08	1.44	1.49	0.05					
				40	39	21	1		67	16	16	1				467	
28S/10E-33F11 M	--	8.4	1300	72	61	90	1	32	428	35	129	18.0	0.6	0.32	--	708	431
12- 8-65				3.59	5.02	3.91	0.03	1.07	7.01	0.73	3.64	0.29					
				29	40	31		8	55	6	29	2				649	
CAYUCOS HYDRO SUBAREA T10A6																	
28S/10E-22DS1 M	--	7.8	740	55	41	25	1	0	315	35	39	14	0.5	0.10	--	464	306
12- 8-65				2.74	3.37	1.09	0.03		5.16	0.73	1.10	0.23					
				38	47	15			71	10	15	3				365	
28S/10E-31F 1 M	--	7.7	1580	72	57	152	1	0	405	45	262	18	1.0	0.30	--	900	414
12- 7-65				3.59	4.69	6.61	0.03		6.64	0.94	7.39	0.29					
				24	31	44			44	6	48	2				807	
28S/10E-32A 3 M	63	8.4	1340	--	--	--	--	8	553	--	116	37	--	--	--		
9-27-66								0.27	9.06		3.27	0.60					
28S/10E-32A 1 M	--	8.1	898	55	65	46	1	0	470	24	63	2	0.4	0.12	--	505	405
12- 8-65				2.74	5.35	2.00	0.03		7.70	0.50	1.78	0.03					
				27	53	20			77	5	18					488	
28S/10E-32A 3 M	61	8.2	1236	41	84	102	10	0	531	43	121	27.0	0.4	0.18	--	681	448
10- 5-65				2.05	6.91	4.43	0.26		8.70	0.90	3.41	0.44					
				15	51	32	2		65	7	25	3				690	
28S/10E-32A 4 M	62	8.3	1550	37	84	151	7	47	489	55	163	3.0	0.5	0.29	--	832	438
10- 5-65				1.85	6.91	6.57	0.18	1.57	8.01	1.15	4.60	0.05					
				12	45	42	1	10	52	7	30					788	
28S/10E-33E 5 M	65	8.6	1480	--	--	--	--	19	557	--	162	0.8	--	--	--		
9-27-66								0.63	9.13		4.57	0.01					
28S/10E-35E 5 M	64	8.3	1497	43	95	136	4	30	575	52	170	0	0.4	0.20	--	867	498
7-20-66				2.15	7.81	5.91	0.10	1.00	9.42	1.08	4.79						
				13	49	37	1	6	58	7	29					813	
OLD HYDRO SUBAREA T10A7																	
28S/10E-26H 2 M	66	7.5	980	81	43	50	1	0	423	64	44	4	0.4	0.15	--	556	379
12- 8-65				4.04	3.54	2.17	0.03		6.93	1.33	1.24	0.06					
				41	36	22			72	14	13	1				495	
28S/10E-34N 2 M	--	7.9	728	55	42	40	1	0	339	60	38	1	0.5	0.16	--	380	310
12- 8-65				2.74	3.45	1.74	0.03		5.56	1.25	1.07	0.02					
				34	43	22			70	16	14					404	
29S/10E- 2C 1 M	--	8.1	584	13	51	27	0	0	254	11	55	10	0.3	0.10	--	330	242
12- 8-65				0.65	4.19	1.17			4.16	0.23	1.55	0.16					
				11	70	19			68	4	25	3				292	
29S/10E- 3G 1 M	64	8.1	1660	100	89	97	2	0	405	92	287	8.0	0.5	0.23	--	1216	616
10- 5-65				4.99	7.32	4.22	0.05		6.64	1.92	8.09	0.13					
				30	44	25			40	11	48	1				875	
TORO HYDRO SUBAREA T10A8																	
29S/10E-11H 1 M	59	8.4	1000	--	--	--	--	6	350	--	110	2.5	--	--	--		
9-27-66								0.20	5.74		3.10	0.04					
	58	8.0	1200	76	73	45	2	0	425	70	120	4.0	0.3	0.19	--	732	490
10- 5-65				3.79	6.00	1.96	0.05		6.97	1.46	3.38	0.06					
				32	51	17			59	12	28	1				599	
29S/11E- 6L 1 M	66	8.3	840	58	63	31	1	0	425	70	30	0.3	--	0.20	--	482	404
9-27-66				2.89	5.18	1.35	0.03		6.97	1.46	0.85						
				31	55	14			75	16	9					462	
	--	7.6	868	59	65	33	1	0	431	79	32	0	0.3	0.10	--	525	415
12- 8-65				2.94	5.35	1.43	0.03		7.06	1.64	0.90						
				30	55	15			74	17	9					481	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
SAN LUIS OBISPO HYDRO SUBUNIT T10B0								SAN LUIS OBISPO HYDRO UNIT T1000									
MORRO HYDRO SUBAREA T10B1																	
11N/36W-13K 5 S	66	8.2	504	48	14	29	3	0	130	39	55	18.7	0.4	0.41	--	338	178
6- 9-66				2.40	1.15	1.26	0.08		2.13	0.81	1.55	0.30					
				49	24	26	2		44	17	32	6				271	
29S/10E-25C 2 M	--	7.7	1403	101	97	67	0	--	540	103	163	14	0.3	0.11	--	917	652
7-21-66				5.04	7.98	2.91			8.85	2.14	4.60	0.23					
				32	50	18			56	14	29	1				811	
	--	8.2	1610	--	--	--	--	0	535	--	197	16	--	--	--		
9-26-66									8.77		5.56	0.26					
29S/10E-25E 2 M	--	7.9	3060	--	--	--	--	0	445	--	653	8.6	--	--	--		
9-26-66									7.29		18.41	0.14					
29S/10E-25C 2 M	61	8.2	1230	46	89	65	2	25	276	106	160	23.0	0.4	0.22	--	808	481
10- 4-65				2.30	7.32	2.83	0.05	0.83	4.52	2.21	4.51	0.37					
				18	59	23		7	36	18	36	3				652	
29S/11E- 1LS1 M	--	8.3	490	42	20	22	1	8	146	71	23	3	0.7	0.08	--	288	187
12- 9-65				2.10	1.64	0.96	0.03	0.27	2.39	1.48	0.65	0.05					
				44	35	20	1	6	49	31	13	1				262	
CHORRO HYDRO SUBAREA T10B2																	
29S/11E-32J 6 S	--	7.6	1550	70	107	50	1	0	618	53	106	14	0.4	0.15	--	780	615
12- 9-65				3.49	8.80	2.17	0.03		10.13	1.10	2.99	0.23					
				24	61	15			70	8	21	2				705	
29S/11E- 9Q 2 M	--	7.2	1610	107	97	50	2	0	640	110	85	34	0.4	0.20	--	868	667
12- 9-65				5.34	7.98	2.17	0.05		10.49	2.29	2.40	0.55					
				34	51	14			67	15	15	3				800	
29S/11E-19G 2 M	--	7.7	1100	68	66	46	1	0	422	59	85	4	0.5	0.10	--	636	441
12- 9-65				3.39	5.43	2.00	0.03		6.92	1.23	2.40	0.06					
				31	50	18			65	12	23	.1				537	
29S/11E-32J 4 M	--	7.9	1130	--	--	--	--	0	504	--	93	0.7	--	--	--		
9-26-66									8.26		2.62	0.01					
29S/11E-32L 1 M	61	8.6	1180	--	--	--	--	24	498	--	88	6.4	--	--	--		
9-28-66								0.80	8.16		2.48	0.10					
29S/11E-32M 1 M	61	8.5	1910	55	133	150	5	29	570	116	273	7.9	--	0.20	--	1110	685
9-27-66				2.74	10.94	6.52	0.13	0.97	9.34	2.42	7.70	0.13					
				13	54	32	1	5	45	12	37	1				1049	
29S/11E-32F 2 M	60	8.5	1200	--	--	--	--	19	542	--	89	8.7	--	--	--		
9-28-66								0.63	8.88		2.51	0.14					
29S/11E-32K 2 M	68	7.5	1238	58	102	54	1	0	560	48	118	5	0.4	0.10	--	680	564
12- 9-65				2.89	8.39	2.35	0.03		9.18	1.00	3.33	0.08					
				21	61	17			68	7	25	1				662	
29S/11E-32M 1 M	60	8.5	1546	30	129	138	4	19	515	105	232	8.0	0.4	0.10	--	920	606
10- 4-65				1.50	10.61	6.00	0.10	0.63	8.44	2.19	6.54	0.13					
				8	58	33	1	4	47	12	36	1				919	
30S/11E- 3D 1 M	--	8.0	1240	56	99	57	1	0	540	48	118	4.8	--	0.10	--	657	547
9-26-66				2.79	8.14	2.48	0.03		8.85	1.00	3.33	0.08					
				21	61	18			67	8	25	1				649	
	--	7.7	1350	61	96	60	1	0	554	46	125	6	0.6	0.14	--	796	547
12- 9-65				3.04	7.90	2.61	0.03		9.08	0.96	3.53	0.10					
				22	58	19			66	7	26	1				668	
LOS OSOS HYDRO SUBAREA T10B3																	
30S/10E-13B 2 M	61	7.2	1405	59	74	75	3	--	23	22	395	23	0.1	0.02	--	925	452
7-19-66				2.94	6.09	3.26	0.08		0.38	0.46	11.14	0.37					
				24	49	26	1		3	4	90	3				662	
	65	6.9	1660	--	--	--	--	0	23	--	437	25	--	--	--		
9-28-66									0.38		12.32	0.40					
30S/10E-13L 1 M	62	7.6	202	7	6	24	1	--	40	5	37	7	0.1	0.02	--	113	42
7-19-66				0.35	0.49	1.04	0.03		0.66	0.10	1.04	0.11					
				18	26	54	2		35	5	54	6				107	
	70	6.8	203	--	--	--	--	0	43	--	30	5.4	--	--	--		
9-28-66									0.70		0.85	0.09					

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
SAN LUIS OBISPO HYDRO UNIT T1000																	
LOS OSOS HYDRO SUBAREA T10B3																	
30S/11E- 7G 3 M	67	6.9	194	8	7	19	1	--	45	3	31	12	0.1	0	--	118	49
7-19-66				0.40	0.58	0.83	0.03		0.74	0.06	0.87	0.19					
				22	32	45	2		40	3	47	10				103	
30S/11E- 7Q 1 M	64	7.3	213	9	6	20	1	0	31	5	30	18	--	0	--	148	47
9-28-66				0.45	0.49	0.87	0.03		0.51	0.10	0.85	0.29					
				24	27	47	2		29	6	49	17				04	
30S/11E- 8J 1 M	75	8.3	3240	--	--	--	--	0	366	--	730	60	--	--	--		
9-28-66									6.00		20.59	0.97					
30S/11E- 8R 1 M	69	8.4	1263	92	89	68	3	23	690	4	98	4	0.2	0.10	--	694	596
7-19-66				4.59	7.32	2.96	0.08	0.77	11.31	0.08	2.76	0.06					
				31	49	20	1	5	76	1	18					721	
	72	8.1	1330	--	--	--	--	0	721	--	88	3.9	--	--	--		
9-28-66									11.82		2.48	0.06					
30S/11E- 8J 1 M	63	7.9	3311	131	149	330	2	0	411	97	818	86	0.7	0.36	--	2020	940
10- 4-65				6.54	12.25	14.35	0.05		6.74	2.02	23.07	1.39					
				20	37	43			20	6	69	4				1816	
30S/11E-13Q 1 M	58	7.8	300	15	7	35	2	0	56	13	50	24.0	0.2	0.25	--	180	67
10- 4-65				0.75	0.58	1.52	0.05		0.92	0.27	1.41	0.39					
				26	20	52	2		31	9	47	13				174	
30S/11E-17H 1 M	65	8.6	575	--	--	--	--	11	210	--	40	13	--	--	--		
9-28-66								0.37	3.44		1.13	0.21					
30S/11E-18K 1 M	63	7.7	175	7	5	17	1	0	42	1	24	6.6	--	0	--	129	38
9-28-66				0.35	0.41	0.74	0.03		0.69	0.02	0.68	0.11					
				23	27	48	2		46	1	45	7				82	
30S/11E-18Q 1 M	64	7.7	257	--	--	--	--	0	34	--	34	26	--	--	--		
9-28-66									0.56		0.96	0.42					
30S/11E-18H 1 M	--	7.6	211	9	6	21	1	0	40	3	29	13	--	0	--	153	47
9-28-66				0.45	0.49	0.91	0.03		0.66	0.06	0.82	0.21					
				24	26	48	2		38	3	47	12				102	
30S/11E-18K 1 M	--	7.5	220	17	5	21	1	0	37	17	35	10	0.3	0.03	--	156	63
12- 9-65				0.85	0.41	0.91	0.03		0.61	0.35	0.99	0.16					
				39	19	41	1		29	17	47	8				124	
30S/11E-21E 1 M	--	8.3	1550	76	87	100	1	49	207	32	340	0.0	0.1	0.08	--	1020	547
12- 6-65				3.79	7.15	4.35	0.03	1.63	3.39	0.67	9.59						
				25	47	28		11	22	4	63					787	
30S/11E-23FS1 M	--	7.8	530	11	49	15	1	0	246	7	34	3	0.2	0.01	--	312	229
12- 9-65				0.55	4.03	0.65	0.03		4.03	0.15	0.96	0.05					
				10	77	12	1		78	3	18	1				241	
SAN LUIS OBISPO CR HYDRO SUBAREA T10B4																	
30S/12E-29Q 1 M	62	8.3	2500	52	127	260	1	43	343	94	498	76.0	0.7	0.19	--	1588	652
10- 4-65				2.59	10.44	11.30	0.03	1.43	5.62	1.96	14.04	1.23					
				11	43	46		6	23	8	58	5				1320	
31S/12E- 4K 1 M	--	7.2	660	35	50	18	1	0	325	20	31	7	0.2	0	--	352	293
12- 9-65				1.75	4.11	0.78	0.03		5.33	0.42	0.87	0.11					
				26	62	12			79	6	13	2				322	
31S/12E-10M 1 M	--	7.6	1080	55	75	35	1	0	458	49	62	10	0.2	0.06	--	600	446
12- 9-65				2.74	6.17	1.52	0.03		7.51	1.02	1.75	0.16					
				26	59	15			72	10	17	2				512	
31S/12E-12N 1 M	60	8.1	2490	121	150	111	1	0	240	12	677	12	0.4	0.11	--	1760	920
10- 7-65				6.04	12.34	4.83	0.03		3.93	0.25	19.09	0.19					
				26	53	21			17	1	81	1				1203	
31S/12E-16Q 1 M	66	7.8	850	33	75	9	1	0	441	13	30	5	0.4	0.08	--	464	391
12- 9-65				1.65	6.17	0.39	0.03		7.23	0.27	0.85	0.08					
				20	75	5			86	3	10	1				383	
31S/12E-28Q 1 M	--	7.8	1050	72	44	70	5	0	285	139	85	17	0.5	0	--	620	361
12-13-65				3.59	3.62	3.04	0.13		4.67	2.89	2.40	0.27					
				35	35	29	1		46	28	23	3				573	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
SAN LUIS OBISPO HYDRO UNIT T1000																	
SAN LUIS OBISPO CR HYDRO SUBAREA T10B4																	
31S/12E-29P 1 M	--	7.1	985	82	58	55	2	0	512	85	37	3	0.6	0.16	--	575	443
12-13-65				4.09	4.77	2.39	0.05		8.39	1.77	1.04	0.05					
				36	42	21			75	16	9					574	
31S/12E-32D 2 M	--	7.9	1230	59	46	153	5	--	564	66	96	3.5	1.8	0.39	--	712	336
8- 1-66				2.94	3.78	6.65	0.13		9.24	1.37	2.71	0.06					
				22	28	49	1		69	10	20					708	
31S/12E-33F 1 M	--	6.3	455	16	11	54	3	0	54	58	67	9	0.5	0.06	--	290	85
12-13-65				0.80	0.90	2.35	0.08		0.89	1.21	1.89	0.15					
				19	22	57	2		21	29	46	4				245	
POINT SAN LUIS HYDRO SUBAREA T10B5																	
30S/10E-27R 1 M	--	7.5	1560	96	56	130	3	0	384	30	297	10	0.3	0.20	--	1040	470
12- 9-65				4.79	4.61	5.65	0.08		6.29	0.62	8.38	0.16					
				32	30	37	1		41	4	54	1				811	
PISMO HYDRO SUBAREA T10B6																	
31S/12E- 1H 1 M	--	7.4	1233	50	107	46	2	0	459	51	158	18	0.3	0.06	--	715	565
12-14-65				2.50	8.80	2.00	0.05		7.52	1.06	4.46	0.29					
				19	66	15			56	8	33	2				658	
31S/12E- 1N 6 M	--	8.4	2000	71	108	157	0	43	382	81	335	32	0.6	0.14	--	1192	621
12-14-65				3.54	8.88	6.83		1.43	6.26	1.69	9.45	0.52					
				18	46	35		7	32	9	49	3				1016	
31S/12E-12F 3 M	--	7.6	2045	78	173	105	1	0	710	69	265	110	0.3	0.04	--	1210	907
12-14-65				3.89	14.23	4.57	0.03		11.64	1.44	7.47	1.77					
				17	63	20			52	6	33	8				1150	
31S/12E-15H 1 M	--	7.8	1447	17	20	330	15	0	545	165	172	5	1.2	0.42	--	970	125
12-13-65				0.85	1.64	14.35	0.38		8.93	3.44	4.85	0.08					
				5	10	83	2		52	20	28					994	
31S/13E- 7M 1 M	--	8.1	620	35	41	25	1	0	230	25	59	7	0.1	0.12	--	324	256
12-14-65				1.75	3.37	1.09	0.03		3.77	0.52	1.66	0.11					
				28	54	17			62	9	27	2				306	
31S/13E-16D 2 M	--	7.6	800	64	60	24	1	0	423	64	25	8	0.5	0.12	--	460	406
12-14-65				3.19	4.93	1.04	0.03		6.93	1.33	0.71	0.13					
				35	54	11			76	15	8	1				455	
31S/13E-18D 1 M	64	7.2	990	54	33	87	6	0	124	21	239	12.0	0.3	0.28	--	792	270
12-14-65				2.69	2.71	3.78	0.15		2.03	0.44	6.74	0.19					
				29	29	41	2		22	5	72	2				513	
31S/13E-19L 1 M	--	7.7	1100	83	51	78	4	0	450	115	56	8	0.7	0.20	--	652	417
12-14-65				4.14	4.19	3.39	0.10		7.38	2.39	1.58	0.13					
				35	35	29	1		64	21	14	1				617	
31S/13E-20D 1 M	--	8.2	880	49	49	43	3	20	298	73	51	1.5	0.5	0	--	584	324
12-15-65				2.45	4.03	1.87	0.08	0.67	4.88	1.52	1.44	0.02					
				29	48	22	1	8	57	18	17					437	
31S/13E-27D 3 M	--	8.4	980	46	66	39	1	59	300	21	67	22.0	0.2	0.11	--	504	387
12-15-65				2.30	5.43	1.70	0.03	1.97	4.92	0.44	1.89	0.35					
				24	57	18		21	51	5	20	4				469	
31S/13E-29F 4 M	--	8.5	970	75	55	29	1	67	270	85	38	7.0	0.3	0.10	--	536	413
12-15-65				3.74	4.52	1.26	0.03	2.23	4.43	1.77	1.07	0.11					
				39	47	13		23	46	18	11	1				490	
31S/13E-29F 5 M	60	8.5	843	73	57	28	1	21	368	82	32	8	0.4	0.10	--	500	417
10- 7-65				3.64	4.69	1.22	0.03	0.70	6.03	1.71	0.90	0.13					
				38	49	13		7	64	18	10	1				483	
31S/13E-32N 1 M	--	7.5	1080	32	18	135	2	0	140	0	241	14	0.6	0	--	608	154
11-15-65				1.60	1.48	5.87	0.05		2.29		6.80	0.23					
				18	16	65	1		25		73	2				511	
31S/13E-33Q 2 M	--	7.6	850	83	35	35	0	0	380	25	50	4	0.8	0.05	--	484	351
12-15-65				4.14	2.88	1.52			6.23	0.52	1.41	0.06					
				48	34	18			76	6	17	1				420	
32S/12E- 4K 2 M	--	7.6	2250	127	128	167	24	0	813	208	232	31	0.6	0.57	--	1368	844
12-15-65				6.34	10.53	7.26	0.61		13.33	4.33	6.54	0.50					
				26	43	29	2		54	18	26	2				1318	
32S/12E-13J 2 M	61	7.6	5144	194	174	635	16	0	548	224	1353	5	0.4	0.45	--	3294	1200
10- 7-65				9.68	14.31	27.61	0.41		8.98	4.66	38.15	0.08					
				19	28	53	1		17	9	74					2871	
32S/12E-15J 1 M	61	7.9	3142	139	140	340	12	0	804	248	533	0	0.6	0.90	--	1929	923
10- 7-65				6.94	11.51	14.78	0.31		13.18	5.16	15.03						
				21	34	44	1		39	15	45					1809	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
SAN LUIS OBISPO HYDRO UNIT T1000																	
PISMO HYDRO SUBAREA T10B6																	
32S/12E-24R 2 M	76	8.3	1035	101	32	79	5	24	332	147	62	0	0.3	0.05	--	651	384
1-17-66				5.04	2.63	3.43	0.13	0.80	5.44	3.06	1.75						
				45	23	31	1	7	49	28	16					614	
32S/12E-24R 3 M	72	8.0	1065	103	36	74	5	0	345	158	79	1.0	0.2	0	--	670	405
1-17-66				5.14	2.96	3.22	0.13		5.65	3.29	2.23	0.02					
				45	26	28	1		50	29	20					626	
32S/13E- 6M 1 M	--	8.3	2050	71	24	383	16	88	653	54	268	1	0.5	2.65	--	1356	276
11-15-65				3.54	1.97	16.65	0.41	2.93	10.70	1.12	7.56	0.02					
				16	9	74	2	13	48	5	34					1229	
32S/13E-31H 3 M	60	7.7	1403	148	74	61	1	0	408	291	89	48	0.6	0.12	--	995	675
10- 7-65				7.39	6.09	2.65	0.03		6.69	6.06	2.51	0.77					
				46	38	16			42	38	16	5				913	
ARROYO GRANDE HYDRO SUBUNIT T10C0																	
ARROYO GRANDE HYDRO SUBAREA T10C1																	
11N/36W-13K 6 S	68	8.4	997	94	37	75	5	12	209	284	40	1.0	0.3	0.06	--	718	387
6- 9-66				4.69	3.04	3.26	0.13	0.40	3.43	5.91	1.13	0.02					
				42	27	29	1	4	31	54	10					651	
32S/12E-24R 1 M	63	7.6	1687	113	47	137	3	0	187	87	345	67	0.2	0.08	--	1082	476
1-18-66				5.64	3.87	5.96	0.08		3.06	1.81	9.73	1.08					
				36	25	38	1		20	12	62	7				891	
32S/12E-24R 2 M	62	8.1	758	75	23	45	2	0	203	94	71	9.5	0.2	0	--	458	282
1-18-66				3.74	1.89	1.96	0.05		3.33	1.96	2.00	0.15					
				49	25	26	1		45	26	27	2				420	
32S/12E-24R 3 M	67	7.8	1051	110	45	50	3	0	376	167	54	1	0.2	0	--	640	460
1-19-66				5.49	3.70	2.17	0.08		6.16	3.48	1.52	0.02					
				48	32	19	1		55	31	14					615	
32S/13E-12Q 2 M	62	8.2	967	102	51	48	1	0	334	173	76	10.0	0.7	0.06	--	660	464
10- 7-65				5.09	4.19	2.09	0.03		5.47	3.60	2.14	0.16					
				45	37	18			48	32	19	1				626	
32S/13E-29G 2 M	60	7.9	938	99	46	40	2	0	350	148	43	27	0.4	0.12	--	610	436
10- 7-65				4.94	3.78	1.74	0.05		5.74	3.08	1.21	0.44					
				47	36	17			55	29	12	4				578	
32S/13E-30F 1 M	--	8.0	2767	201	81	250	6	0	173	381	586	33	0.4	0.11	--	1900	835
1-20-66				10.03	6.66	10.87	0.15		2.84	7.93	16.53	0.53					
				36	24	39	1		10	28	59	2				1624	
32S/13E-30F 2 M	66	7.6	970	94	38	47	2	0	280	152	68	27	0.2	0.08	--	580	391
1-20-66				4.69	3.13	2.04	0.05		4.59	3.16	1.92	0.44					
				47	32	21	1		45	31	19	4				566	
32S/13E-30F 3 M	68	7.8	1047	109	40	49	4	0	321	182	69	1	0.3	0.05	--	642	437
1-19-66				5.44	3.29	2.13	0.10		5.26	3.79	1.95	0.02					
				50	30	19	1		48	34	18					612	
32S/13E-30H 2 M	60	7.8	778	52	26	52	2	0	86	81	76	122	0.3	0.03	--	463	237
10- 7-65				2.59	2.14	2.26	0.05		1.41	1.69	2.14	1.97					
				37	30	32	1		20	23	30	27				454	
32S/13E-30L 2 M	61	8.0	1156	113	53	46	3	0	298	151	130	24	0.3	0.04	--	725	500
10- 7-65				5.64	4.36	2.00	0.08		4.88	3.14	3.67	0.39					
				47	36	17	1		40	26	30	3				667	
32S/13E-30N 1 M	68	10.3	1112	112	3	93	25	19	0	365	115	3	0.5	0.08	--	683	292
1-22-66				5.59	0.25	4.04	0.64	0.63		7.60	3.24	0.05					
				53	2	38	6	5		66	28					736	
32S/13E-30N 2 M	67	7.5	1376	148	63	71	5	0	232	483	54	0	0.5	0.12	--	1069	629
1-21-66				7.39	5.18	3.09	0.13		3.80	10.06	1.52						
				47	33	20	1		25	65	10					939	
32S/13E-30N 3 M	65	7.5	1226	132	59	54	3	0	410	250	57	1	0.5	0.08	--	804	572
1-22-66				6.59	4.85	2.35	0.08		6.72	5.21	1.61	0.02					
				48	35	17	1		50	38	12					758	
32S/13E-30P 1 M	--	7.4	1099	106	48	43	2	0	306	134	105	27	0.4	0.04	--	653	462
1-20-66				5.29	3.95	1.87	0.05		5.02	2.79	2.96	0.44					
				47	35	17			45	25	26	4				616	
32S/13E-30R 1 M	61	7.8	781	51	25	59	3	0	73	123	68	106	0.3	0.02	--	474	230
10- 7-65				2.54	2.06	2.57	0.08		1.20	2.56	1.92	1.71					
				35	28	35	1		16	35	26	23				471	
32S/13E-31J 3 M	58	7.9	2166	222	135	82	2	--	397	644	131	126	0.6	0.08	--	1595	1110
7-18-66				11.08	11.10	3.57	0.05		6.51	13.41	3.69	2.03					
				43	43	14			25	52	14	8				1538	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C 105C COMP	HARDNESS CACO3
				MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
SANTA MARIA-CUYAMA HYDRO UNIT T1200																	
ARROYO GRANDE HYDRO SUBUNIT T10C0																	
ARROYO GRANDE HYDRO SUBAREA T10C1																	
32S/13E-31H 3 M	61	8.2	1570	166	88	65	1	--	425	343	99	70	0.6	0.09	--	1036	777
7-18-66				8.28	7.24	2.83	0.03		6.97	7.14	2.79	1.13					
				45	39	15			39	40	15	6				1042	
32S/13E-31H 7 M	67	8.5	1788	194	82	92	4	38	365	368	146	91	0.6	0.06	--	1249	822
7-18-66				9.68	6.74	4.00	0.10	1.27	5.98	7.66	4.12	1.47					
				47	33	19		6	29	37	20	7				1195	
32S/13E-31C 1 M	63	7.8	4543	100	108	708	45	0	551	355	1008	3.7	0.8	0.55	--	2592	694
1-22-66				4.99	8.88	30.78	1.15		9.03	7.39	28.43	0.06					
				11	19	67	3		20	16	63					2600	
32S/13E-31F 2 M	--	8.1	1298	138	62	62	4	0	338	364	48	1.0	0.5	0.08	--	952	600
1-21-66				6.89	5.10	2.70	0.10		5.54	7.58	1.35	0.02					
				47	34	18	1		38	52	9					846	
32S/13E-31F 3 M	72	7.4	1436	158	63	72	4	0	225	521	50	1	0.4	0.13	--	1055	654
1-21-66				7.88	5.18	3.13	0.10		3.69	10.85	1.41	0.02					
				48	32	19	1		23	68	9					980	
32S/13E-31F 4 M	78	7.4	997	76	32	86	4	0	327	126	80	0	0.3	0.16	--	548	321
1-21-66				3.79	2.63	3.74	0.10		5.36	2.62	2.26						
				37	26	36	1		52	26	22					565	
32S/13E-32M 4 M	62	8.3	1207	138	65	43	2	22	395	231	60	24	0.4	0.05	--	773	612
7-18-66				6.89	5.35	1.87	0.05	0.73	6.47	4.81	1.69	0.39					
				49	38	13		5	46	34	12	3				780	
32S/13E-32A 1 M	60	7.6	935	77	38	50	2	0	53	194	76	128	0.2	0.10	--	630	349
10- 7-65				3.84	3.13	2.17	0.05		0.87	4.04	2.14	2.06					
				42	34	24	1		10	44	23	23				591	
32S/13E-32H 1 M	67	8.2	828	79	37	43	2	0	200	166	52	42.0	0.5	0.04	--	540	349
10- 7-65				3.94	3.04	1.87	0.05		3.28	3.46	1.47	0.68					
				44	34	21	1		37	39	17	8				520	
32S/13E-33M 2 M	59	8.0	1914	212	105	61	2	--	423	501	85	138	0.8	0.08	--	1411	962
7-18-66				10.58	8.64	2.65	0.05		6.93	10.43	2.40	2.23					
				48	39	12			32	47	11	10				1313	
NIPOMO MESA HYDRO SUBAREA T10C2																	
11N/35W- 5L 1 S	69	8.0	700	57	27	50	3	0	151	156	52	6.0	0.3	0.06	--	430	253
10-11-65				2.84	2.22	2.17	0.08		2.47	3.25	1.47	0.10					
				39	30	30	1		34	45	20	1				426	
11N/35W- 7R 1 S	70	8.0	1178	125	49	70	4	0	178	443	43	2.8	0.4	0.18	--	880	514
10- 8-65				6.24	4.03	3.04	0.10		2.92	9.22	1.21	0.05					
				47	30	23	1		22	69	9					825	
11N/35W- 9G 1 S	--	7.8	626	42	24	45	2	0	139	107	56	4	0.2	0.06	--	381	204
10-13-65				2.10	1.97	1.96	0.05		2.28	2.23	1.58	0.06					
				35	32	32	1		37	36	26	1				349	
11N/35W- 9P 1 S	65	7.8	293	12	5	34	2	0	49	11	50	11	0.1	0.01	--	206	51
10-11-65				0.60	0.41	1.48	0.05		0.80	0.23	1.41	0.18					
				24	16	58	2		31	9	54	7				149	
11N/35W-12F 1 S	71	8.2	528	37	13	48	2	0	127	30	84	2.2	0.2	0.05	--	290	146
10- 8-65				1.85	1.07	2.09	0.05		2.08	0.62	2.37	0.04					
				37	21	41	1		41	12	46	1				279	
T1100																	
10N/24W- 6C 1 S	--	7.7	5866	369	225	708	4	--	258	1492	1097	99	1.1	1.00	--	4370	1847
10-12-65				18.41	18.50	30.78	0.10		4.23	31.06	30.94	1.60					
				27	27	45			6	46	46	2				4123	
10N/24W- 9L 1 S	--	7.8	9860	457	678	1444	13	0	234	5561	709	37	1.4	4.10	--	10013	3931
10-12-65				22.80	55.76	62.79	0.33		3.84	115.78	19.99	0.60					
				16	39	44			3	83	14					9020	
10N/24W- 9Q 1 S	--	7.8	2824	392	137	145	4	0	239	1370	130	23	0.6	0.82	--	2504	1543
10-12-65				19.56	11.27	6.30	0.10		3.92	28.52	3.67	0.37					
				53	30	17			11	78	10	1				2320	
11N/26W- 2G 1 S	71	8.1	3115	56	29	615	3	0	239	794	398	35	0.9	1.30	--	2050	259
10-22-65				2.79	2.38	26.74	0.08		3.92	16.53	11.22	0.56					
				9	7	84			12	51	35	2				2050	
29S/17E-13R 1 M	71	8.2	880	38	13	126	1	0	161	119	81	68.0	0.9	0.63	--	530	149
10-22-65				1.90	1.07	5.48	0.03		2.64	2.48	2.28	1.10					
				22	13	65			31	29	27	13				527	
29S/18E-28L 1 M	69	7.9	1143	71	20	145	1	0	168	260	74	80.0	0.6	0.68	--	750	259
10-22-65				3.54	1.64	6.30	0.03		2.75	5.41	2.09	1.29					
				31	14	55			24	47	18	11				735	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
					T1100												
30S/18E- 2N 1 M	65	7.9	884	77	22	80	1	0	229	158	54	39	0.3	0.26	--	600	282
10-22-65				3.84	1.81	3.48	0.03		3.75	3.29	1.52	0.63					
				42	20	38			41	36	17	7				544	
30S/18E-12N 1 M	72	8.2	613	39	16	68	1	0	218	58	32	38	0.6	0.24	--	425	16
10-22-65				1.95	1.32	2.96	0.03		3.57	1.21	0.90	0.61					
				31	21	47			57	19	14	10				360	
SANTA MARIA HYDRO SUBUNIT				T12A0					SANTA MARIA-CUYAMA HYDRO UNIT		T1200						
9N/33W- 6G 1 S	63	7.7	1014	95	51	50	2	--	248	286	34	3.0	0.5	0.05	--	741	447
4-12-66				4.74	4.19	2.17	0.05		4.06	5.95	0.96	0.05					
				43	38	19			37	54	9					643	
9N/33W- 6G 1 S	--	8.1	986	93	54	50	2	0	259	295	28	5	0.6	0.12	--	490	454
11- 8-65				4.64	4.44	2.17	0.05		4.25	6.14	0.79	0.08					
				41	39	19			38	55	7	1				655	
9N/33W-12R 1 S	64	8.0	1124	100	60	63	2	--	262	329	35	14	0.4	0.15	--	847	496
4-12-66				4.99	4.93	2.74	0.05		4.29	6.85	0.99	0.23					
				39	39	22			35	55	8	2				732	
9N/33W-18R 1 S	70	7.2	798	64	14	70	2	--	157	49	127	19	0.4	0.08	--	505	217
4-12-66				3.19	1.15	3.04	0.05		2.57	1.02	3.58	0.31					
				43	15	41	1		34	14	48	4				423	
9N/34W- 8H 4 S	65	7.8	934	92	39	58	3	0	253	229	42	5	0.3	0.09	--	668	390
11- 8-65				4.59	3.21	2.52	0.08		4.15	4.77	1.18	0.08					
				44	31	24	1		41	47	12	1				593	
10N/34W- 3P 2 S	62	7.5	1335	145	55	68	3	--	271	396	54	26	0.6	0.11	--	1025	588
4-12-66				7.24	4.52	2.96	0.08		4.44	8.24	1.52	0.42					
				49	31	20	1		30	56	10	3				881	
10N/34W-17F 1 S	63	7.9	1909	206	89	112	4	--	271	708	89	45	0.8	0.16	--	1580	881
4-12-66				10.28	7.32	4.87	0.10		4.44	14.74	2.51	0.73					
				46	32	22			20	66	11	3				1387	
10N/34W-29N 1 S	68	8.0	1010	101	33	54	3	0	244	248	39	4.8	0.5	0.14	--	648	388
6- 2-66				5.04	2.71	2.35	0.08		4.00	5.16	1.10	0.08					
				50	27	23	1		39	50	11	1				603	
10N/34W-34E 2 S	69	8.0	1010	96	44	50	3	0	244	262	39	4.2	0.5	0.13	--	668	421
6- 2-66				4.79	3.62	2.17	0.08		4.00	5.45	1.10	0.07					
				45	34	20	1		38	51	10	1				619	
10N/35W- 4C 1 S	62	7.9	1776	197	89	98	4	0	277	708	69	20	0.7	0.28	--	1400	858
11- 8-65				9.83	7.32	4.26	0.10		4.54	14.74	1.95	0.32					
				46	34	20			21	68	9	1				1322	
10N/35W- 7F 1 S	63	8.2	2380	228	114	73	3	10	195	795	129	6.6	0.7	0.23	--	1704	1039
4-13-66				11.38	9.38	3.17	0.08	0.33	3.20	16.55	3.64	0.11					
				47	39	13		1	13	69	15					1455	
10N/35W- 9N 1 S	63	8.1	2320	208	84	146	5	0	292	780	95	11.6	1.3	0.25	--	1632	865
4-13-66				10.38	6.91	6.35	0.13		4.79	16.24	2.68	0.19					
				44	29	27	1		20	68	11	1				1475	
10N/35W-14D 1 S	63	7.5	1622	167	69	101	2	--	293	505	91	38	0.7	0.14	--	1204	701
4-13-66				8.33	5.67	4.39	0.05		4.80	10.51	2.57	0.61					
				45	31	24			26	57	14	3				1118	
	65	8.1	1619	165	71	100	4	0	291	509	87	37	0.7	0.16	--	1230	704
11- 8-65				8.23	5.84	4.35	0.10		4.77	10.60	2.45	0.60					
				44	32	23	1		26	58	13	3				1117	
10N/35W-21C 1 S	63	8.0	1656	134	70	133	4	0	312	415	139	42	0.5	0.28	--	1155	623
11- 8-65				6.69	5.76	5.78	0.10		5.11	8.64	3.92	0.68					
				36	31	32	1		28	47	21	4				1091	
11N/34W-29P 2 S	64	8.0	1078	95	42	64	2	--	167	264	73	51	0.5	0.08	--	769	410
4-12-66				4.74	3.45	2.78	0.05		2.74	5.50	2.06	0.82					
				43	31	25			25	49	19	7				674	
11N/35W-18M 1 S	--	8.3	1388	142	64	81	4	8	199	509	53	1	0	0.14	--	1026	618
4-12-66				7.09	5.26	3.52	0.10	0.27	3.26	10.60	1.49	0.02					
				44	33	22	1	2	21	68	10					960	
11N/35W-26M 1 S	62	8.3	872	88	32	51	2	10	162	222	50	18	0	0.06	--	570	351
4-12-66				4.39	2.63	2.22	0.05	0.33	2.66	4.62	1.41	0.29					
				47	28	24	1	4	29	50	15	3				553	
	63	8.0	693	66	23	44	2	0	155	148	45	19	0.3	0.06	--	440	259
11- 8-65				3.29	1.89	1.91	0.05		2.54	3.08	1.27	0.31					
				46	26	27	1		35	43	18	4				424	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
SANTA MARIA-CUYAMA HYDRO UNIT T1200																	
11N/36W-13R 1 S	--	8.1	1215	112	54	78	4	--	167	446	47	2.5	0.5	0.17	--	861	502
4-12-66				5.59	4.44	3.39	0.10		2.74	9.29	1.33	0.04					
				41	33	25	1		20	69	10					826	
	--	8.0	1282	132	60	78	4	0	254	461	41	1	0.5	0.16	--	970	576
11- 8-65				6.59	4.93	3.39	0.10		4.16	9.60	1.16	0.02					
				44	33	23	1		28	64	8					902	
SISQUOC HYDRO SUBUNIT T12B0																	
8N/29W-20J 1 S	--	8.2	1230	119	57	40	1	14	482	148	27	0	0.3	0.20	--	816	532
10-10-65				5.94	4.69	1.74	0.03	0.47	7.90	3.08	0.76						
				48	38	14		4	65	25	6					643	
9N/33W-12R 1 S	64	8.2	1085	99	62	58	2	0	282	332	28	14	0.6	0.16	--	790	502
11- 8-65				4.94	5.10	2.52	0.05		4.62	6.91	0.79	0.23					
				39	40	20			37	55	6	2				734	
11N/28W-27R 1 S	--	7.7	857	60	24	95	3	--	279	182	26	6.2	0.3	0.12	--	564	248
3-11-66				2.99	1.97	4.13	0.08		4.57	3.79	0.73	0.10					
				33	21	45	1		50	41	8	1				534	
CUYAMA VALLEY HYDRO SUBUNIT T12C0																	
3N/23W-12NS1 S	--	8.2	433	36	9	45	3	0	233	16	15	0.0	0.4	0.05	--	260	127
6-15-66				1.80	0.74	1.96	0.08		3.82	0.33	0.42						
				39	16	43	2		84	7	9					239	
7N/23W-19K 1 S	85	8.2	2050	259	108	79	4	0	174	1090	13	0.4	--	0.20	--	1680	1091
9-23-66				12.92	8.88	3.43	0.10		2.85	22.69	0.37	0.01					
				51	35	14			11	88	1					1639	
7N/23W-23G 1 S	57	7.6	2786	392	193	108	4	0	249	1717	10	0.4	2.4	0.18	--	2760	1773
6-28-66				19.56	15.87	4.70	0.10		4.08	35.75	0.28	0.01					
				49	39	12			10	89	1					2549	
7N/24W-12QS1 S	--	8.3	1159	138	40	72	2	8	161	463	16	6	0.6	0.03	--	885	509
7-10-66				6.89	3.29	3.13	0.05	0.27	2.64	9.64	0.45	0.10					
				52	25	23		2	20	74	3	1				825	
8N/23W-11DS1 S	71	8.0	511	50	11	44	2	0	234	31	17	26.5	0.6	0.03	--	310	170
5-18-66				2.50	0.90	1.91	0.05		3.84	0.65	0.48	0.43					
				47	17	36	1		71	12	9	8				297	
8N/23W-34L 1 S	62	8.2	371	52	6	18	1	--	196	10	14	6.3	0.2	0.01	--	206	154
5-12-66				2.59	0.49	0.78	0.03		3.21	0.21	0.39	0.10					
				67	13	20	1		82	5	10	3				204	
8N/24W- 7A 1 S	--	8.3	1722	222	98	82	4	12	157	892	20	5	1.2	0.14	--	1449	958
7-14-66				11.08	8.06	3.57	0.10	0.40	2.57	18.57	0.56	0.08					
				49	35	16		2	12	84	3					1413	
8N/25W-19DS1 S	62	7.6	1510	152	91	151	2	0	578	570	13	0.6	1.8	0.24	--	1310	754
7- 1-66				7.58	7.48	6.57	0.05		9.47	11.87	0.37	0.01					
				35	35	30			44	55	2					1266	
9N/23W-29E 1 S	--	8.5	5441	128	15	1060	5	14	216	622	1333	5.5	2.4	2.28	--	3357	381
6-16-66				6.39	1.23	46.09	0.13	0.47	3.54	12.95	37.59	0.09					
				12	2	86		1	6	24	69					3293	
9N/23W-31P 1 S	--	8.5	446	2	0	108	1	5	246	18	8	3.6	0.4	0.03	--	271	5
6-16-66				0.10		4.70	0.03	0.17	4.03	0.37	0.23	0.06					
				2		97	1	3	83	8	5	1				267	
9N/24W- 7B 1 S	69	7.8	1244	98	27	150	3	0	232	444	16	17	1.3	0.64	--	910	356
5-12-66				4.89	2.22	6.52	0.08		3.80	9.24	0.45	0.27					
				36	16	48	1		28	67	3	2				871	
9N/24W-19F 1 S	--	7.7	1888	246	98	86	4	--	196	967	15	3.5	1.4	0.20	--	1523	1018
4-26-66				12.28	8.06	3.74	0.10		3.21	20.13	0.42	0.06					
				51	33	15			13	85	2					1517	
9N/24W-30R 1 S	61	8.2	1798	235	101	76	4	0	185	956	13	2.0	1.4	0.18	--	1570	1003
6-30-66				11.73	8.31	3.30	0.10		3.03	19.90	0.37	0.03					
				50	35	14			13	85	2					1479	
9N/24W-33J 1 S	--	8.0	1103	52	11	176	3	0	258	193	100	1.7	0.8	0.33	--	618	175
6-16-66				2.59	0.90	7.65	0.08		4.23	4.02	2.82	0.03					
				23	8	68	1		38	36	25					665	
9N/25W- 6K 1 S	67	8.0	1214	118	48	93	4	0	242	463	13	0.8	0.6	0.19	--	785	492
5- 5-66				5.89	3.95	4.04	0.10		3.97	9.64	0.37	0.01					
				42	28	29	1		28	69	3					859	
9N/25W- 8R 1 S	--	7.7	1721	203	93	88	4	0	242	831	17	12.0	0.8	0.13	--	1440	890
5- 6-66				10.13	7.65	3.83	0.10		3.97	17.30	0.48	0.19					
				47	35	18			18	79	2	1				1368	
9N/25W-13B 1 S	60	8.1	1842	247	97	74	4	--	169	967	12	4.0	1.4	0.18	--	1605	1016
4-26-66				12.33	7.98	3.22	0.10		2.77	20.13	0.34	0.06					
				52	34	14			12	86	1					1490	

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SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
SANTA MARIA-CUYAMA HYDRO UNIT T1200																	
CUYAMA VALLEY HYDRO SUBUNIT T12CO																	
9N/25W-14H 1 S	--	7.9	1884	199	123	93	3	0	182	977	15	2.0	1.4	0.14	--	1650	1003
7- 1-66				9.93	10.12	4.04	0.08		2.98	20.34	0.42	0.03					
				41	42	17			13	86	2					1503	
9N/25W-33Q 1 S	--	7.9	2417	276	169	116	3	--	297	1290	17	1.1	1.9	0.14	--	2197	1385
7- 1-66				13.77	13.90	5.04	0.08		4.87	26.86	0.48	0.02					
				42	42	15			15	83	1					2020	
9N/27W- 2R 2 S	--	8.4	1050	87	35	88	2	4	232	335	13	0.6	--	0	--	710	361
8-18-66				4.34	2.88	3.83	0.05	0.13	3.80	6.97	0.37	0.01					
				39	26	35		1	34	62	3					679	
10N/24W-20L 1 S	--	7.9	1776	107	51	216	3	0	282	452	154	38.0	1.6	6.30	--	1218	477
5- 5-66				5.34	4.19	9.39	0.08		4.62	9.41	4.34	0.61					
				28	22	49			24	50	23	3				1168	
10N/25W-15N 1 S	67	7.3	3236	359	126	264	6	0	171	1193	282	250	1.0	2.12	--	2710	1415
7-13-66				17.91	10.36	11.48	0.15		2.80	24.84	7.95	4.03					
				45	26	29			7	63	20	10				2567	
CUYAMA VALLEY HYDRO SUBUNIT T12CO																	
10N/25W-16J 1 S	--	7.7	3636	489	161	264	7	0	310	1708	154	250	1.0	1.16	--	3375	1884
7-13-66				24.40	13.24	11.48	0.18		5.08	35.56	4.34	4.03					
				49	27	23			10	73	9	8				3188	
10N/25W-17J 2 S	67	7.6	2053	261	100	117	5	0	185	1069	32	16.0	1.0	0.42	--	1760	1063
5- 5-66				13.02	8.22	5.09	0.13		3.03	22.26	0.90	0.26					
				49	31	19			11	84	3	1				1692	
10N/25W-17M 1 S	64	7.9	2347	327	138	108	5	0	234	1289	39	40.0	1.0	0.32	--	2130	1385
5- 5-66				16.32	11.35	4.70	0.13		3.84	26.84	1.10	0.65					
				50	35	14			12	83	3	2				2062	
10N/25W-18M 1 S	63	7.9	1838	253	98	82	4	0	193	999	14	3.5	1.1	0.23	--	1620	1035
5- 5-66				12.62	8.06	3.57	0.10		3.16	20.80	0.39	0.06					
				52	33	15			13	85	2					1550	
10N/25W-20H 1 S	62	7.4	1794	233	93	77	4	--	178	911	15	4.0	1.4	0.18	--	1525	965
4-26-66				11.63	7.65	3.35	0.10		2.92	18.97	0.42	0.06					
				51	34	15			13	85	2					1426	
10N/25W-21G 1 S	62	7.5	2217	309	123	98	4	--	232	1186	20	25.0	1.8	0.24	--	2020	1278
4-26-66				15.42	10.12	4.26	0.10		3.80	24.69	0.56	0.40					
				52	34	14			13	84	2	1				1881	
10N/25W-22E 1 S	63	7.7	2076	280	110	90	4	--	201	1080	19	21.2	1.4	0.20	--	1840	1152
4-26-66				13.97	9.05	3.91	0.10		3.29	22.49	0.54	0.34					
				52	33	14			12	84	2	1				1705	
10N/25W-22H 1 S	65	7.5	1745	225	88	80	4	0	159	892	28	11.0	1.0	0.19	--	1430	924
5- 5-66				11.23	7.24	3.48	0.10		2.61	18.57	0.79	0.18					
				51	33	16			12	84	4	1				1407	
10N/25W-23E 1 S	71	7.6	2254	234	83	185	5	--	137	914	178	4.7	1.1	1.50	--	1810	926
4-26-66				11.68	6.83	8.04	0.13		2.25	19.03	5.02	0.08					
				44	26	30			9	72	19					1674	
10N/25W-30D 1 S	65	8.2	1742	234	96	79	4	--	169	909	20	18	0.8	0.17	--	1608	980
7-14-66				11.68	7.90	3.43	0.10		2.77	18.93	0.56	0.29					
				51	34	15			12	84	2	1				1444	
10N/25W-30F 2 S	64	7.9	1776	225	106	76	4	0	176	927	17	22	1.0	0.18	--	1550	998
5- 5-66				11.23	8.72	3.30	0.10		2.88	19.30	0.48	0.35					
				48	37	14			13	84	2	2				1465	
10N/25W-32G 1 S	65	8.0	1880	218	104	74	3	0	191	949	11	3.1	--	0.10	--	1550	972
9-23-66				10.88	8.55	3.22	0.08		3.13	19.76	0.31	0.05					
				48	38	14			13	85	1					1456	
10N/25W-32H 1 S	62	7.8	1776	224	102	75	4	0	185	899	18	30	1.3	0.14	--	1540	979
5-10-66				11.18	8.39	3.26	0.10		3.03	18.72	0.51	0.48					
				49	37	14			13	82	2	2				1444	
10N/26W- 4G 1 S	--	8.1	3450	398	168	246	4	0	164	1860	106	0.5	--	2.60	--		1685
9-23-66				19.86	13.82	10.70	0.10		2.69	38.73	2.99	0.01					
				45	31	24			6	87	7					2866	
10N/26W- 4R 3 S	72	7.5	1956	214	85	178	5	--	121	1033	48	2	0.9	0.95	--	1780	884
7-14-66				10.68	6.99	7.74	0.13		1.98	21.51	1.35	0.03					
				42	27	30	1		8	86	5					1626	
10N/26W- 9R 3 S	64	7.8	1984	271	95	93	5	0	185	1051	22	10.0	0.9	0.25	--	1710	1067
5- 5-66				13.52	7.81	4.04	0.13		3.03	21.88	0.62	0.16					
				53	31	16	1		12	85	2	1				1639	
10N/26W-24J 4 S	67	8.0	2329	316	139	125	4	--	188	1218	54	76	1.1	0.17	--	2187	1361
7-14-66				15.77	11.43	5.44	0.10		3.08	25.36	1.52	1.23					
				48	35	17			10	81	5	4				2026	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECx10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
SANTA MARIA-CUYAMA HYDRO UNIT T1200																	
CUYAMA VALLEY HYDRO SUBUNIT T12C0																	
10N/26W-24R 1 S	63	7.6	3547	492	202	169	5	--	180	1596	167	420	1.0	0.38	--	3287	2060
7-14-66				24.55	16.61	7.35	0.13		2.95	33.23	4.71	6.77					
				50	34	15			6	70	10	14				3141	
10N/27W- 3L 1 S	70	7.9	1050	98	37	74	1	--	220	310	31	2.0	0.6	0.08	--	748	397
4- 6-66				4.89	3.04	3.22	0.03		3.61	6.45	0.87	0.03					
				44	27	29			33	59	8					662	
10N/27W- 3H 1 S	68	7.6	4909	586	252	428	7	--	392	2862	111	1	1.2	0.53	--	5055	2500
4- 6-66				29.24	20.72	18.61	0.18		6.42	59.59	3.13	0.02					
				43	30	27			9	86	5					4441	
	--	7.9	5080	607	258	415	6	0	405	2930	103	0.8	--	0.50	--	4690	2578
9-23-66				30.29	21.22	18.04	0.15		6.64	61.00	2.90	0.01					
				43	30	26			9	86	4					4519	
10N/27W- 5L 1 S	94	7.9	1953	101	24	308	4	0	132	656	172	0.0	1.4	0.68	--	1430	351
4- 7-66				5.04	1.97	13.39	0.10		2.16	13.66	4.85						
				25	10	65			10	66	23					1332	
10N/27W- 6A 1 S	78	7.4	1686	101	28	240	5	0	200	570	104	4.5	0.9	0.42	--	1215	367
4-14-66				5.04	2.30	10.44	0.13		3.28	11.87	2.93	0.07					
				28	13	58	1		18	65	16					1152	
10N/27W-22D 1 S	71	8.0	664	63	27	39	1	--	201	149	16	19	0.3	0	--	333	268
4-15-66				3.14	2.22	1.70	0.03		3.29	3.10	0.45	0.31					
				44	31	24			46	43	6	4				413	
10N/27W-23R 1 S	--	8.0	1780	179	84	104	3	0	229	791	25	0.4	--	0.10	--	1420	793
8-18-66				8.93	6.91	4.52	0.08		3.75	16.47	0.71	0.01					
				44	34	22			18	79	3					1299	
10N/27W-26A 1 S	--	7.6	1733	175	86	110	4	0	238	747	34	0.5	0.6	0.08	--	1357	791
10-11-65				8.73	7.07	4.78	0.10		3.90	15.55	0.96	0.01					
				42	34	23			19	76	5					1274	
10N/28W- 2E 1 S	67	7.9	726	71	42	25	1	0	276	151	15	3.5	0.4	0	--	520	350
4-14-66				3.54	3.45	1.09	0.03		4.52	3.14	0.42	0.06					
				44	43	13			56	39	5	1				445	
10N/28W- 5P 1 S	65	8.0	759	93	19	44	1	--	274	113	34	24	0.3	0	--	468	310
4- 6-66				4.64	1.56	1.91	0.03		4.49	2.35	0.96	0.39					
				57	19	23			55	29	12	5				463	
10N/28W-10G 2 S	--	8.0	895	104	46	21	2	--	404	156	14	1	0.5	0	--	533	449
4-15-66				5.19	3.78	0.91	0.05		6.62	3.25	0.39	0.02					
				52	38	9	1		64	32	4					543	
10N/28W-13D 1 S	--	8.6	588	2	0	140	2	19	232	10	39	14	1.1	0.17	--	388	5
4-14-66				0.10		6.09	0.05	0.63	3.80	0.21	1.10	0.23					
				2		98	1	11	64	4	18	4				341	
10N/28W-13P 1 S	--	8.2	666	34	5	118	1	--	296	96	12	5	0	0	--	405	106
4-14-66				1.70	0.41	5.13	0.03		4.85	2.00	0.34	0.08					
				23	6	71			67	28	5	1				417	
10N/28W-24C 2 S	--	8.0	989	93	48	35	1	--	337	202	17	2	0.3	0.04	--	623	430
4- 6-66				4.64	3.95	1.52	0.03		5.52	4.21	0.48	0.03					
				46	39	15			54	41	5					564	
10N/28W-24CS1 S	58	7.7	932	124	42	36	1	--	413	187	12	0.0	0.4	0.01	--	669	482
4-14-66				6.19	3.45	1.57	0.03		6.77	3.89	0.34						
				55	31	14			62	35	3					605	
11N/27W-30N 1 S	--	7.4	4673	613	232	285	8	0	139	1832	765	3.0	1.6	0.12	--	4380	2485
4- 6-66				30.59	19.08	12.39	0.20		2.28	38.14	21.57	0.05					
				49	31	20			4	61	35					3808	
11N/27W-31M 1 S	66	8.0	1634	91	33	234	4	0	207	580	75	2.5	1.0	0.48	--	1200	363
4-14-66				4.54	2.71	10.17	0.10		3.39	12.08	2.12	0.04					
				26	15	58	1		19	69	12					1123	
11N/27W-32R 1 S	66	7.7	4056	504	249	303	9	--	276	2471	58	2	1.5	0.60	--	4140	2283
4- 6-66				25.15	20.48	13.17	0.23		4.52	51.45	1.64	0.03					
				43	35	22			8	89	3					3734	
11N/28W-16F 1 S	73	7.6	2814	141	94	359	7	--	289	837	301	0.0	0.7	0.77	--	2087	739
4- 5-66				7.04	7.73	15.61	0.18		4.74	17.43	8.49						
				23	25	51	1		15	57	28					1883	
11N/28W-22A 1 S	72	7.7	4066	216	156	497	7	--	295	1180	553	2.5	1.0	0.83	--	2976	1181
4- 5-66				10.78	12.83	21.61	0.18		4.84	24.57	15.59	0.04					
				24	28	48			11	55	35					2758	
11N/28W-26B 1 S	--	7.6	3510	399	178	260	11	--	265	1747	200	0.0	1.8	0.56	--	3296	1729
3-11-66				19.91	14.64	11.30	0.28		4.34	36.37	5.64						
				43	32	24	1		9	78	12					2928	

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ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
SAN ANTONIO HYDRO UNIT																	
11N/28W-33E99 S	72	7.8	1275	123	71	62	2	--	373	348	35	2	0.5	0.06	--	930	599
4- 6-66				6.14	5.84	2.70	0.05		6.11	7.25	0.99	0.03					
				42	40	18			42	50	7					827	
11N/32W-13N 1 S	--	7.9	1872	163	121	106	2	0	639	476	69	1	0.7	0.38	--	1320	905
10-13-65				8.13	9.95	4.61	0.05		10.47	9.91	1.95	0.02					
				36	44	20			47	44	9					1253	
30S/16E- 2D 1 M	--	7.7	460	43	20	23	3	0	211	23	30	0	0.2	0.12	--	368	190
10-10-65				2.15	1.64	1.00	0.08		3.46	0.48	0.85						
				44	34	21	2		72	10	18					246	
31S/16E- 4J 1 M	--	8.2	790	101	24	17	1	24	269	105	21	0	0.1	0	--	608	351
10-10-65				5.04	1.97	0.74	0.03	0.80	4.41	2.19	0.59						
				65	25	10		10	55	27	7					425	
31S/16E-35KS1 M	--	7.9	820	94	29	33	2	0	336	82	52	4	0.1	0.12	--	608	354
10-10-65				4.69	2.38	1.43	0.05		5.51	1.71	1.47	0.06					
				55	28	17	1		63	20	17	1				461	
			T1300														
7N/32W- 1B 1 S	--	8.4	629	55	20	41	2	11	176	11	86	26	0.2	0.02	--	383	219
4-13-66				2.74	1.64	1.78	0.05	0.37	2.88	0.23	2.43	0.42					
				44	26	29	1	6	45	4	38	7				339	
8N/32W-30H 6 S	64	8.2	808	65	29	62	3	--	151	169	77	5	0.4	0.05	--	494	281
4-13-66				3.24	2.38	2.70	0.08		2.47	3.52	2.17	0.08					
				39	28	32	1		30	43	26	1				485	
8N/33W-20R 1 S	--	8.0	1213	84	49	95	2	0	310	199	114	0.5	0.3	0.19	--	779	411
11- 5-65				4.19	4.03	4.13	0.05		5.08	4.14	3.21	0.01					
				34	33	33			41	33	26					696	
	--	8.4	1490	134	43	85	5	22	376	197	116	0.8	0.7	0.21	--	860	512
4-13-66				6.69	3.54	3.70	0.13	0.73	6.16	4.10	3.27	0.01					
				48	25	26	1	5	43	29	23					789	
8N/34W-16G 1 S	74	8.1	930	82	23	45	5	0	240	138	52	1.6	0.5	0.10	--	548	299
4-13-66				4.09	1.89	1.96	0.13		3.93	2.87	1.47	0.03					
				51	23	24	2		47	35	18					465	
8N/34W-16G 2 S	70	8.2	783	70	15	68	3	0	204	77	100	1	0.4	0.08	--	493	236
11- 5-65				3.49	1.23	2.96	0.08		3.34	1.60	2.82	0.02					
				45	16	38	1		43	21	36					435	
8N/34W-23B 3 S	65	7.9	1241	90	35	115	5	0	226	125	209	22	0.3	0.18	--	795	369
11- 5-65				4.49	2.88	5.00	0.13		3.70	2.60	5.89	0.35					
				36	23	40	1		30	21	47	3				713	
	65	7.8	1300	90	35	108	5	0	215	133	208	18.8	0.3	0.16	--	836	369
4-13-66				4.49	2.88	4.70	0.13		3.52	2.77	5.87	0.30					
				37	24	39	1		28	22	47	2				704	
9N/35W-18R 1 S	65	8.0	794	64	17	70	3	0	172	49	121	21	0.5	0.08	--	480	230
11- 8-65				3.19	1.40	3.04	0.08		2.82	1.02	3.41	0.34					
				41	18	39	1		37	13	45	4				430	
LOMPOC HYDRO SUBUNIT				T14A0													
					T14A0												
6N/31W- 7K 1 S	64	8.5	1190	97	40	60	0	4	236	286	43	18.6	--	1.20	--	799	407
4-19-66				4.84	3.29	2.61		0.13	3.87	5.95	1.21	0.30					
				45	31	24		1	34	52	11	3				666	
6N/31W- 7P 1 S	64	8.5	1800	107	91	92	0	6	234	485	88	6.2	--	1.40	--	1345	642
4-21-66				5.34	7.48	4.00		0.20	3.84	10.10	2.48	0.10					
				32	44	24		1	23	60	15	1				992	
6N/34W-13D 1 S	--	7.6	1229	115	66	58	5	0	542	121	84	0.0	0.3	0.10	--	795	559
6- 1-66				5.74	5.43	2.52	0.13		8.88	2.52	2.37						
				42	39	18	1		64	18	17					716	
7N/31W-23N 5 S	63	8.1	875	42	68	40	1	--	285	183	35	13	0.5	0.35	--	566	385
4-12-66				2.10	5.59	1.74	0.03		4.67	3.81	0.99	0.21					
				22	59	18			48	39	10	2				523	
7N/33W-30B 1 S	66	7.9	1220	50	36	150	4	--	41	29	371	20.0	0.5	0.16	--	1040	273
4- 7-66				2.50	2.96	6.52	0.10		0.67	0.60	10.46	0.32					
				21	25	54	1		6	5	87	3				681	
7N/34W-19J 1 S	71	7.9	1387	122	38	115	6	--	163	287	193	6	0.3	0.2	--	1007	461
4- 8-66				6.09	3.13	5.00	0.15		2.67	5.98	5.44	0.10					
				42	22	35	1		19	42	38	1				848	
7N/34W-19J 3 S	67	7.9	1669	144	51	143	6	--	146	407	227	7	0.4	0.24	--	1239	569
4- 8-66				7.19	4.19	6.22	0.15		2.39	8.47	6.40	0.11					
				41	24	35	1		14	49	37	1				1057	
7N/34W-20K 5 S	70	8.1	1078	97	35	83	3	--	208	205	123	0	0.2	0.13	--	738	386
4- 8-66				4.84	2.88	3.61	0.08		3.41	4.27	3.47						
				42	25	32	1		31	38	31					649	

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SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
LOMPOC HYDRO SUBUNIT				T14A0				SANTA YNEZ HYDRO UNIT			T1400						
7N/34W-20L 1 S	71	7.9	1293	117	35	101	4	--	168	261	178	0	0.2	0.21	--	900	436
4- 8-66				5.84	2.88	4.39	0.10		2.75	5.43	5.02						
				44	22	33	1		21	41	38					779	
7N/34W-20M 2 S	69	7.8	1348	109	31	131	6	--	223	173	217	6	0.4	0.26	--	859	400
4- 8-66				5.44	2.55	5.70	0.15		3.65	3.60	6.12	0.10					
				39	18	41	1		27	27	45	1				783	
7N/34W-24FS1 S	62	7.7	342	6	5	49	2	0	52	4	74	1	0.1	0.08	--	179	36
10-15-65				0.30	0.41	2.13	0.05		0.85	0.08	2.09	0.02					
				10	14	74	2		28	3	69	1				167	
7N/34W-28G 1 S	66	8.3	2530	162	103	198	5	18	245	772	167	7.7	1.6	1.12	--	1784	828
4- 7-66				8.08	8.47	8.61	0.13	0.60	4.02	16.07	4.71	0.12					
				32	33	34	1	2	16	63	18					1556	
7N/34W-29K 2 S	65	8.1	2800	222	136	130	7	--	309	795	213	3.5	0.6	0.59	--	2112	1114
4- 7-66				11.08	11.18	5.65	0.18		5.06	16.55	6.01	0.06					
				39	40	20	1		18	60	22					1660	
7N/34W-34F 4 S	68	8.3	1498	125	47	92	0	2	201	375	116	6.2	--	1.30	--	1063	506
4-21-66				6.24	3.87	4.00		0.07	3.29	7.81	3.27	0.10					
				44	27	28			23	54	22	1				863	
7N/34W-34P 4 S	65	8.2	1460	114	70	101	6	0	325	368	105	0	--	0.80	--	1061	573
9-26-66				5.69	5.76	4.39	0.15		5.33	7.66	2.96						
				36	36	27	1		33	48	19					925	
7N/34W-35H 1 S	65	8.2	3150	138	86	397	11	30	460	384	503	38.4	0.6	1.30	--	1928	699
4- 7-66				6.89	7.07	17.26	0.28	1.00	7.54	7.99	14.18	0.62					
				22	22	55	1	3	24	26	45	2				1815	
7N/35W-17K 1 S	66	7.4	8403	315	311	1125	22	0	525	860	2320	5.0	0.9	0.30	--	6560	2067
7-27-66				15.72	25.58	48.92	0.56		8.60	17.91	65.42	0.08					
				17	28	54	1		9	19	71					5217	
7N/35W-17M 1 S	80	7.7	3584	105	53	50	28	0	371	21	1000	5.0	1.1	0.70	--	2050	480
7-27-66				5.24	4.36	2.17	0.72		6.08	0.44	28.20	0.08					
				42	35	17	6		17	1	81					1446	
7N/35W-17QX1 S	107	7.8	9434	34	31	2100	46	0	1547	33	2550	20	1.9	5.35	--	5610	213
7-27-66				1.70	2.55	91.31	1.18		25.36	0.69	71.91	0.32					
				2	3	94	1		26	1	73					5582	
7N/35W-18J 1 S	60	7.3	5556	62	96	1000	35	0	493	95	1560	9.9	1.1	1.00	--	3160	550
7-27-66				3.09	7.90	43.48	0.89		8.08	1.98	43.99	0.16					
				6	14	79	2		15	4	81					3102	
7N/35W-18J 2 S	66	7.3	29412	241	985	6150	192	0	254	1522	11800	5.0	1.2	2.50	--	22730	4656
7-27-66				12.03	81.01	267.40	4.91		4.16	31.69	332.76	0.08					
				3	22	73	1		1	9	90					21024	
7N/35W-18H 2 S	63	9.0	17241	15	409	3375	112	53	88	452	6100	12	0.9	1.60	--	11140	1721
7-27-66				0.75	33.64	146.75	2.86	1.77	1.44	9.41	172.02	0.19					
					18	80	2	1	1	5	93					10574	
7N/35W-18J 1 S	--	7.8	5682	63	91	975	36	0	505	82	1560	8	0.5	1.06	--	3125	531
10- 1-65				3.14	7.48	42.39	0.92		8.28	1.71	43.99	0.13					
				6	14	79	2		15	3	81					3065	
7N/35W-22J 2 S	64	7.6	2770	228	139	192	10	--	353	722	365	10	0.5	0.49	--	2140	1141
4- 8-66				11.38	11.43	8.35	0.26		5.79	15.03	10.29	0.16					
				36	36	27	1		19	48	33	1				1840	
7N/35W-22M 1 S	64	8.1	1816	122	48	188	4	--	232	179	371	1.0	0.2	0.15	--	1135	502
4- 8-66				6.09	3.95	8.17	0.10		3.80	3.73	10.46	0.02					
				33	22	45	1		21	21	58					1027	
7N/35W-23E 2 S	65	7.5	2800	216	81	233	8	0	405	466	348	7.0	0.6	0.97	--	1824	873
4- 4-66				10.78	6.66	10.13	0.20		6.64	9.70	9.81	0.11					
				39	24	36	1		25	37	37					1560	
7N/35W-24K 2 S	65	8.0	3180	183	85	292	6	0	285	410	550	15.0	0.7	0.62	--	1924	807
4- 8-66				9.13	6.99	12.70	0.15		4.67	8.54	15.51	0.24					
				32	24	44	1		16	29	54	1				1682	
7N/35W-25D 1 S	65	7.8	2601	184	143	209	9	--	235	834	301	5	0.5	0.72	--	2086	1048
4- 8-66				9.18	11.76	9.09	0.23		3.85	17.36	8.49	0.08					
				30	39	30	1		13	58	29					1802	
7N/35W-33J 3 S	67	8.1	1309	128	39	74	5	--	229	141	228	2	0.2	0.03	--	873	480
4- 8-66				6.39	3.21	3.22	0.13		3.75	2.94	6.43	0.03					
				49	25	25	1		29	22	49					730	
7N/35W-36J99 S	--	7.9	2800	165	156	165	2	0	535	621	248	3.3	0.7	0.40	--	1796	1054
4- 7-66				8.23	12.83	7.17	0.05		8.77	12.93	6.99	0.05					
				29	45	25			31	45	24					1624	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
SANTA YNEZ HYDRO UNIT T1400																	
SANTA RITA HYDRO SUBUNIT T1480																	
6N/30W- 7C 4 S	68	8.6	634	29	52	22	1	21	238	12	63	11	0.1	0.02	--	318	287
4-13-66				1.45	4.28	0.96	0.03	0.70	3.90	0.25	1.78	0.18					
				22	64	14		10	57	4	26	3				328	
6N/30W-24H 1 S	--	8.2	601	48	30	31	1	--	182	135	20	2	0.5	0.10	--	326	244
4-13-66				2.40	2.47	1.35	0.03		2.98	2.81	0.56	0.03					
				38	40	22			47	44	9					357	
6N/32W-17J 2 S	61	8.4	1880	124	82	125	0	4	217	520	144	6.2	--	1.90	--	1382	647
5-10-66				6.19	6.74	5.44		0.13	3.56	10.83	4.06	0.10					
				34	37	30		1	19	58	22	1				1114	
	67	7.9	1980	187	100	127	5	0	430	540	138	0	--	0.90	--	1561	878
9-27-66				9.33	8.22	5.52	0.13		7.05	11.24	3.89						
				40	35	24	1		32	51	18					1309	
6N/32W-18H 1 S	63	8.2	3150	265	176	101	3	34	504	790	201	27.2	1.7	0.70	--	2328	1386
4- 7-66				13.22	14.47	4.39	0.08	1.13	8.26	16.45	5.67	0.44					
				41	45	14		4	26	51	18	1				1847	
6N/33W- 8G 4 S	66	8.3	2000	149	95	101	0	2	248	586	123	6.2	--	1.20	--	1540	763
4-20-66				7.44	7.81	4.39		0.07	4.06	12.20	3.47	0.10					
				38	40	22			20	61	17	1				1185	
	66	8.2	1990	163	137	92	6	0	322	640	117	5	--	0.50	--	1637	971
9-21-66				8.13	11.27	4.00	0.15		5.28	13.32	3.30	0.08					
				35	48	17	1		24	61	15					1319	
6N/33W-11M 1 S	60	7.7	1592	144	90	93	4	0	395	443	100	1.3	0.6	0.34	--	1200	730
4- 1-66				7.19	7.40	4.04	0.10		6.47	9.22	2.82	0.02					
				38	40	22	1		35	50	15					1070	
7N/30W-33M 1 S	--	8.6	729	28	74	24	2	33	356	19	39	6	0.2	0.02	--	378	375
4-13-66				1.40	6.09	1.04	0.05	1.10	5.83	0.40	1.10	0.10					
				16	71	12	1	13	68	5	13	1				400	
BUELLTON HYDRO SUBUNIT T14C0																	
6N/31W- 7P 1 S	64	8.0	1780	160	115	90	5	0	480	445	87	0	--	0.50	--	1359	873
9-22-66				7.98	9.46	3.91	0.13		7.87	9.26	2.45						
				37	44	18	1		40	47	13					1139	
6N/31W-21K 1 S	66	8.3	1200	87	80	65	4	2	315	315	51	10	--	0	--	848	546
9-20-66				4.34	6.58	2.83	0.10	0.07	5.16	6.56	1.44	0.16					
				31	48	20	1	1	39	49	11	1				769	
SANTA YNEZ HYDRO SUBUNIT T14D0																	
6N/30W- 7C 4 S	65	8.3	653	30	52	22	2	12	251	11	66	8	0.2	0.05	--	379	289
11- 5-65				1.50	4.28	0.96	0.05	0.40	4.11	0.23	1.86	0.13					
				22	63	14	1	6	61	3	28	2				327	
6N/30W-30B 1 S	62	8.6	1070	78	47	57	0	5	232	240	34	12.4	--	1.20	--	743	388
4-22-66				3.89	3.87	2.48		0.17	3.80	5.00	0.96	0.20					
				38	38	24		2	38	49	9	2				589	
	66	8.2	950	68	54	55	3	0	214	273	33	5.0	--	0.50	--	647	392
9-20-66				3.39	4.44	2.39	0.08		3.51	5.68	0.93	0.08					
				33	43	23	1		34	56	9	1				597	
6N/30W-30C 1 S	62	8.5	1550	107	68	68	0	5	259	395	46	6.2	--	1.20	--	1139	547
4-22-66				5.34	5.59	2.96		0.17	4.25	8.22	1.30	0.10					
				38	40	21		1	30	59	9	1				824	
6N/34W-12C 4 S	65	7.8	2900	196	168	109	8	0	432	695	184	7.0	0.4	0.56	--	2516	1181
4- 1-66				9.78	13.82	4.74	0.20		7.08	14.47	5.19	0.11					
				34	48	17	1		26	54	19					1580	
7N/30W-33M 1 S	--	8.4	773	30	75	23	2	15	398	18	38	5	0.2	0.07	--	470	384
11- 5-65				1.50	6.17	1.00	0.05	0.50	6.52	0.37	1.07	0.08					
				17	71	11	1	6	76	4	13	1				402	
HEADWATER HYDRO SUBUNIT T14E0																	
6N/30W-24H 1 S	59	8.1	920	90	45	42	2	0	258	248	22	0	0.5	0.34	--	664	410
11- 5-65				4.49	3.70	1.83	0.05		4.23	5.16	0.62						
				45	37	18			42	52	6					577	
ARGUELLO HYDRO SUBUNIT T15A0																	
5N/31W-28Q 1 S	--	7.3	807	157	0	22	1	0	278	156	28	0.0	0.4	0	--	575	392
7-13-66				7.83		0.96	0.03		4.56	3.25	0.79						
				89		11			53	38	9					501	

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ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
SANTA BARBARA HYDRO UNIT T1500																	
SOUTH COAST HYDRO SUBUNIT T15C0																	
GOLETA HYDRO SUBAREA T15C1																	
4N/25W-21N 4 S	--	8.2	870	82	31	63	1	--	360	103	44	4	0.5	0.09	--	540	332
4- 6-66				4.09	2.55	2.74	0.03		5.90	2.14	1.24	0.06					
				43	27	29			63	23	13	1				506	
4N/25W-22R 3 S	62	7.6	916	97	31	55	1	--	290	168	35	35	0.6	0.13	--	622	370
4- 6-66				4.84	2.55	2.39	0.03		4.75	3.50	0.99	0.56					
				49	26	24			48	36	10	6				565	
4N/25W-26B 2 S	66	8.0	689	59	29	40	1	--	179	156	30	8	0.3	0.04	--	464	266
4- 6-66				2.94	2.38	1.74	0.03		2.93	3.25	0.85	0.13					
				41	34	25			41	45	12	2				411	
4N/26W-24F 7 S	68	7.9	1579	115	59	124	1	--	358	62	249	90	0.8	0.39	--	1005	530
4- 6-66				5.74	4.85	5.39	0.03		5.87	1.29	7.02	1.45					
				36	30	34			38	8	45	9				877	
4N/28W- 8N 3 S	--	8.6	1135	63	31	133	2	19	247	175	118	5	0.4	0.27	--	690	285
4- 6-66				3.14	2.55	5.78	0.05	0.63	4.05	3.64	3.33	0.08					
				27	22	50		5	35	31	28	1				668	
4N/28W-12K 2 S	70	7.8	1211	116	43	90	2	--	268	322	69	3	0.6	0.13	--	867	467
4- 6-66				5.79	3.54	3.91	0.05		4.39	6.70	1.95	0.05					
				44	27	29			34	51	15					777	
4N/28W-17R 1 S	--	8.4	1045	37	23	147	9	17	310	29	142	14	0.2	0.41	--	570	187
4- 6-66				1.85	1.89	6.39	0.23	0.57	5.08	0.60	4.00	0.23					
				18	18	62	2	5	48	6	38	2				571	
CARPINTERIA HYDRO SUBAREA T15C4																	
4N/25W-28N 3 S	65	7.7	1075	95	41	79	3	--	354	160	84	1.0	0.4	0.21	--	690	406
4- 6-66				4.74	3.37	3.43	0.08		5.80	3.33	2.37	0.02					
				41	29	30	1		50	29	21					638	
4N/25W-29D 3 S	--	7.9	779	83	24	51	1	--	312	120	27	2	0.4	0.08	--	486	306
4- 6-66				4.14	1.97	2.22	0.03		5.11	2.50	0.76	0.03					
				50	24	27			61	30	9					462	
4N/29W-14A 2 S	--	7.5	3514	80	148	441	9	--	487	264	770	72	0.3	0.44	--	2117	809
4- 6-66				3.99	12.17	19.17	0.23		7.98	5.50	21.71	1.16					
				11	34	54	1		22	15	60	3				2024	
9N/34W- 8H 4 S	67	8.1	848	64	39	54	3	--	169	230	46	3.5	0	0.11	--	587	320
4-12-66				3.19	3.21	2.35	0.08		2.77	4.79	1.30	0.06					
				36	36	27	1		31	54	15	1				523	
VENTURA RIVER HYDRO UNIT U0200																	
LOWER VENTURA RIVER HYDRO SUBUNIT U02A0																	
2N/23W- 5L 1 S	71	7.9	2415	196	72	218	8	0	270	484	369	8.0	0.5	0.70	--	1670	786
10-11-65				9.78	5.92	9.48	0.20		4.43	10.08	10.41	0.13					
				39	23	37	1		18	40	42	1				1489	
2N/23W- 5P 1 S	70	7.9	4087	384	124	286	11	0	208	521	976	12.0	0.5	0.72	--	3513	1469
10-11-65				19.16	10.20	12.44	0.28		3.41	10.85	27.52	0.19					
				46	24	30	1		8	26	66					2417	
2N/23W-14K 1 S	--	7.2	1507	136	38	150	--	--	376	411	69	--	0.4	0.50	--	1180	496
6- 3-66				6.79	3.13	6.52			6.16	8.56	1.95						
2N/23W-36A 1 S	--	7.4	1342	120	37	119	--	--	262	404	55	--	0.6	0.32	--	997	452
6- 3-66				5.99	3.04	5.17			4.29	8.41	1.55						
UPPER VENTURA RIVER HYDRO SUBUNIT U02B0																	
4N/23W- 9B 1 S	--	7.8	1056	127	35	56	2	0	268	279	46	10.0	0.7	0.60	--	710	461
10-14-65				6.34	2.88	2.43	0.05		4.39	5.81	1.30	0.16					
				54	25	21			38	50	11	1				688	
4N/23W-14G 1 S	--	7.7	1919	207	51	147	5	0	429	358	225	1.0	0.5	0.52	--	1280	727
10-21-65				10.33	4.19	6.39	0.13		7.03	7.45	6.35	0.02					
				49	20	30	1		34	36	30					1206	
4N/23W-33M 1 S	--	7.5	1692	202	51	110	3	0	383	384	164	4.5	0.7	0.52	--	1210	714
12-22-65				10.08	4.19	4.78	0.08		6.28	7.99	4.62	0.07					
				53	22	25			33	42	24					1108	
5N/24W-15M 1 S	--	7.9	960	110	33	33	1	0	438	60	50	0.0	0.4	0.14	--	640	410
10-10-65				5.49	2.71	1.43	0.03		7.18	1.25	1.41						
				57	28	15			73	13	14					503	

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SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
SANTA YNEZ HYDRO UNIT T1400																	
SANTA RITA HYDRO SUBUNIT T14B0																	
6N/30W- 7C 4 S	68	8.6	634	29	52	22	1	21	238	12	63	11	0.1	0.02	--	318	287
4-13-66				1.45	4.28	0.96	0.03	0.70	3.90	0.25	1.78	0.18					
				22	64	14		10	57	4	26	3				328	
6N/30W-24H 1 S	--	8.2	601	48	30	31	1	--	182	135	20	2	0.5	0.10	--	326	244
4-13-66				2.40	2.47	1.35	0.03		2.98	2.81	0.56	0.03					
				38	40	22			47	44	9					357	
6N/32W-17J 2 S	61	8.4	1880	124	82	125	0	4	217	520	144	6.2	--	1.90	--	1382	647
5-10-66				6.19	6.74	5.44		0.13	3.56	10.83	4.06	0.10					
				34	37	30		1	19	58	22	1				1114	
	67	7.9	1980	187	100	127	5	0	430	540	138	0	--	0.90	--	1561	878
9-27-66				9.33	8.22	5.52	0.13		7.05	11.24	3.89						
				40	35	24	1		32	51	18					1309	
6N/32W-18H 1 S	63	8.2	3150	265	176	101	3	34	504	790	201	27.2	1.7	0.70	--	2328	1386
4- 7-66				13.22	14.47	4.39	0.08	1.13	8.26	16.45	5.67	0.44					
				41	45	14		4	26	51	18	1				1847	
6N/33W- 8G 4 S	66	8.3	2000	149	95	101	0	2	248	586	123	6.2	--	1.20	--	1540	763
4-20-66				7.44	7.81	4.39		0.07	4.06	12.20	3.47	0.10					
				38	40	22			20	61	17	1				1185	
	66	8.2	1990	163	137	92	6	0	322	640	117	5	--	0.50	--	1637	971
9-21-66				8.13	11.27	4.00	0.15		5.28	13.32	3.30	0.08					
				35	48	17	1		24	61	15					1319	
6N/33W-11M 1 S	60	7.7	1592	144	90	93	4	0	395	443	100	1.3	0.6	0.34	--	1200	730
4- 1-66				7.19	7.40	4.04	0.10		6.47	9.22	2.82	0.02					
				38	40	22	1		35	50	15					1070	
7N/30W-33M 1 S	--	8.6	729	28	74	24	2	33	356	19	39	6	0.2	0.02	--	378	375
4-13-66				1.40	6.09	1.04	0.05	1.10	5.83	0.40	1.10	0.10					
				16	71	12	1	13	68	5	13	1				400	
BUELLTON HYDRO SUBUNIT T14C0																	
6N/31W- 7P 1 S	64	8.0	1780	160	115	90	5	0	480	445	87	0	--	0.50	--	1359	873
9-22-66				7.98	9.46	3.91	0.13		7.87	9.26	2.45						
				37	44	18	1		40	47	13					1139	
6N/31W-21K 1 S	66	8.3	1200	87	80	65	4	2	315	315	51	10	--	0	--	848	546
9-20-66				4.34	6.58	2.83	0.10	0.07	5.16	6.56	1.44	0.16					
				31	48	20	1	1	39	49	11	1				769	
SANTA YNEZ HYDRO SUBUNIT T14D0																	
6N/30W- 7C 4 S	65	8.3	653	30	52	22	2	12	251	11	66	8	0.2	0.05	--	379	289
11- 5-65				1.50	4.28	0.96	0.05	0.40	4.11	0.23	1.86	0.13					
				22	63	14	1	6	61	3	28	2				327	
6N/30W-30B 1 S	62	8.6	1070	78	47	57	0	5	232	240	34	12.4	--	1.20	--	743	388
4-22-66				3.89	3.87	2.48		0.17	3.80	5.00	0.96	0.20					
				38	38	24		2	38	49	9	2				589	
	66	8.2	950	68	54	55	3	0	214	273	33	5.0	--	0.50	--	647	392
9-20-66				3.39	4.44	2.39	0.08		3.51	5.68	0.93	0.08					
				33	43	23	1		34	56	9	1				597	
6N/30W-30C 1 S	62	8.5	1550	107	68	68	0	5	259	395	46	6.2	--	1.20	--	1139	547
4-22-66				5.34	5.59	2.96		0.17	4.25	8.22	1.30	0.10					
				38	40	21		1	30	59	9	1				824	
6N/34W-12C 4 S	65	7.8	2900	196	168	109	8	0	432	695	184	7.0	0.4	0.56	--	2516	1181
4- 1-66				9.78	13.82	4.74	0.20		7.08	14.47	5.19	0.11					
				34	48	17	1		26	54	19					1580	
7N/30W-33M 1 S	--	8.4	773	30	75	23	2	15	398	18	38	5	0.2	0.07	--	470	384
11- 5-65				1.50	6.17	1.00	0.05	0.50	6.52	0.37	1.07	0.08					
				17	71	11	1	6	76	4	13	1				402	
HEADWATER HYDRO SUBUNIT T14E0																	
6N/30W-24H 1 S	59	8.1	920	90	45	42	2	0	258	248	22	0	0.5	0.34	--	664	410
11- 5-65				4.49	3.70	1.83	0.05		4.23	5.16	0.62						
				45	37	18			42	52	6					577	
ARGUELLO HYDRO SUBUNIT T15A0																	
5N/31W-28Q 1 S	--	7.3	807	157	0	22	1	0	278	156	28	0.0	0.4	0	--	575	392
7-13-66				7.83		0.96	0.03		4.56	3.25	0.79						
				89		11			53	38	9					501	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
SANTA BARBARA HYDRO UNIT T1500																	
SOUTH COAST HYDRO SUBUNIT T15CO																	
GOLETA HYDRO SUBAREA T15C1																	
4N/25W-21N 4 S	--	8.2	870	82	31	63	1	--	360	103	44	4	0.5	0.09	--	540	332
4- 6-66				4.09	2.55	2.74	0.03		5.90	2.14	1.24	0.06					
				43	27	29			63	23	13	1				506	
4N/25W-22R 3 S	62	7.6	916	97	31	55	1	--	290	168	35	35	0.6	0.13	--	622	370
4- 6-66				4.84	2.55	2.39	0.03		4.75	3.50	0.99	0.56					
				49	26	24			48	36	10	6				565	
4N/25W-26B 2 S	66	8.0	689	59	29	40	1	--	179	156	30	8	0.3	0.04	--	464	266
4- 6-66				2.94	2.38	1.74	0.03		2.93	3.25	0.85	0.13					
				41	34	25			41	45	12	2				411	
4N/26W-24F 7 S	68	7.9	1579	115	59	124	1	--	358	62	249	90	0.8	0.39	--	1005	530
4- 6-66				5.74	4.85	5.39	0.03		5.87	1.29	7.02	1.45					
				36	30	34			38	8	45	9				877	
4N/28W- 8N 3 S	--	8.6	1135	63	31	133	2	19	247	175	118	5	0.4	0.27	--	690	285
4- 6-66				3.14	2.55	5.78	0.05	0.63	4.05	3.64	3.33	0.08					
				27	22	50		5	35	31	28	1				668	
4N/28W-12K 2 S	70	7.8	1211	116	43	90	2	--	268	322	69	3	0.6	0.13	--	867	467
4- 6-66				5.79	3.54	3.91	0.05		4.39	6.70	1.95	0.05					
				44	27	29			34	51	15					777	
4N/28W-17R 1 S	--	8.4	1045	37	23	147	9	17	310	29	142	14	0.2	0.41	--	570	187
4- 6-66				1.85	1.89	6.39	0.23	0.57	5.08	0.60	4.00	0.23					
				18	18	62	2	5	48	6	38	2				571	
CARPINTERIA HYDRO SUBAREA T15C4																	
4N/25W-28N 3 S	65	7.7	1075	95	41	79	3	--	354	160	84	1.0	0.4	0.21	--	690	406
4- 6-66				4.74	3.37	3.43	0.08		5.80	3.33	2.37	0.02					
				41	29	30	1		50	29	21					638	
4N/25W-29D 3 S	--	7.9	779	83	24	51	1	--	312	120	27	2	0.4	0.08	--	486	306
4- 6-66				4.14	1.97	2.22	0.03		5.11	2.50	0.76	0.03					
				50	24	27			61	30	9					462	
4N/29W-14A 2 S	--	7.5	3514	80	148	441	9	--	487	264	770	72	0.3	0.44	--	2117	809
4- 6-66				3.99	12.17	19.17	0.23		7.98	5.50	21.71	1.16					
				11	34	54	1		22	15	60	3				2024	
9N/34W- 8H 4 S	67	8.1	848	64	39	54	3	--	169	230	46	3.5	0	0.11	--	587	320
4-12-66				3.19	3.21	2.35	0.08		2.77	4.79	1.30	0.06					
				36	36	27	1		31	54	15	1				523	
VENTURA RIVER HYDRO UNIT U0200																	
LOWER VENTURA RIVER HYDRO SUBUNITU02AO																	
2N/23W- 5L 1 S	71	7.9	2415	196	72	218	8	0	270	484	369	8.0	0.5	0.70	--	1670	786
10-11-65				9.78	5.92	9.48	0.20		4.43	10.08	10.41	0.13					
				39	23	37	1		18	40	42	1				1489	
2N/23W- 5P 1 S	70	7.9	4087	384	124	286	11	0	208	521	976	12.0	0.5	0.72	--	3513	1469
10-11-65				19.16	10.20	12.44	0.28		3.41	10.85	27.52	0.19					
				46	24	30	1		8	26	66					2417	
2N/23W-14K 1 S	--	7.2	1507	136	38	150	--	--	376	411	69	--	0.4	0.50	--	1180	496
6- 3-66				6.79	3.13	6.52			6.16	8.56	1.95						
2N/23W-36A 1 S	--	7.4	1342	120	37	119	--	--	262	404	55	--	0.6	0.32	--	997	452
6- 3-66				5.99	3.04	5.17			4.29	8.41	1.55						
UPPER VENTURA RIVER HYDRO SUBUNITU02BO																	
4N/23W- 9B 1 S	--	7.8	1056	127	35	56	2	0	268	279	46	10.0	0.7	0.60	--	710	461
10-14-65				6.34	2.88	2.43	0.05		4.39	5.81	1.30	0.16					
				54	25	21			38	50	11	1				688	
4N/23W-14G 1 S	--	7.7	1919	207	51	147	5	0	429	358	225	1.0	0.5	0.52	--	1280	727
10-21-65				10.33	4.19	6.39	0.13		7.03	7.45	6.35	0.02					
				49	20	30	1		34	36	30					1206	
4N/23W-33M 1 S	--	7.5	1692	202	51	110	3	0	383	384	164	4.5	0.7	0.52	--	1210	714
12-22-65				10.08	4.19	4.78	0.08		6.28	7.99	4.62	0.07					
				53	22	25			33	42	24					1108	
5N/24W-15M 1 S	--	7.9	960	110	33	33	1	0	438	60	50	0.0	0.4	0.14	--	640	410
10-10-65				5.49	2.71	1.43	0.03		7.18	1.25	1.41						
				57	28	15			73	13	14					503	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
VENTURA RIVER HYDRO UNIT U0200																	
OJAI HYDRO SUBUNIT U02C0																	
UPPER OJAI HYDRO SUBAREA U02C1																	
4N/22W-12N 1 S	--	8.2	965	68	22	123	2	0	487	14	56	30.0	0.3	1.48	--	591	260
10- 1-65				3.39	1.81	5.35	0.05		7.98	0.29	1.58	0.48					
				32	17	50			77	3	15	5				556	
OJAI HYDRO SUBAREA U02C2																	
4N/22W- 5L 8 S	--	8.1	846	104	23	42	1	0	218	188	37	30.0	0.5	0.04	--	579	354
10- 1-65				5.19	1.89	1.83	0.03		3.57	3.91	1.04	0.48					
				58	21	20			40	43	12	5				533	
4N/22W- 6K 7 S	72	7.8	1806	157	37	167	2	0	251	256	302	8.5	0.6	0.46	--	1185	544
10- 1-65				7.83	3.04	7.26	0.05		4.11	5.33	8.52	0.14					
				43	17	40			23	29	47	1				1054	
4N/22W- 7C 1 S	65	7.9	776	99	20	38	1	0	248	174	22	4.0	0.5	0	--	504	329
10-14-65				4.94	1.64	1.65	0.03		4.06	3.62	0.62	0.06					
				60	20	20			49	43	7	1				480	
4N/22W- 9B 5 S	--	8.1	937	121	33	40	1	0	303	201	32	21.0	0.6	0.08	--	662	438
10- 1-65				6.04	2.71	1.74	0.03		4.97	4.18	0.90	0.34					
				57	26	17			48	40	9	3				599	
4N/22W- 9B 5 S	--	7.4	700	73	20	25	4	0	152	165	24	3.0	0.5	0.25	--	480	264
10-21-65				3.64	1.64	1.09	0.10		2.49	3.44	0.68	0.05					
				56	25	17	2		37	52	10	1				389	
4N/23W- 2B 1 S	65	7.5	1093	121	44	41	1	0	312	150	99	30.0	0.3	0	--	706	483
10-14-65				6.04	3.62	1.78	0.03		5.11	3.12	2.79	0.48					
				53	32	16			44	27	24	4				640	
4N/23W-11D 1 S	--	8.5	567	43	18	47	1	17	195	11	49	14.0	0.5	0	--	307	182
10-14-65				2.15	1.48	2.04	0.03	0.57	3.20	0.23	1.38	0.23					
				38	26	36	1	10	57	4	25	4				296	
OJAI HYDRO SUBAREA U02C2																	
4N/23W-12H 2 S	--	7.8	866	105	28	36	1	0	248	191	25	33.0	0.5	0	--	568	377
10-14-65				5.24	2.30	1.57	0.03		4.06	3.98	0.71	0.53					
				57	25	17			44	43	8	6				541	
	--	8.2	697	69	25	37	1	0	119	188	25	29.0	0.4	0	--	448	275
10-21-65				3.44	2.06	1.61	0.03		1.95	3.91	0.71	0.47					
				48	29	23			28	56	10	7				433	
4N/23W-12K 2 S	--	7.8	2043	209	46	150	2	0	316	231	360	30.0	0.5	0	--	1410	711
10-14-65				10.43	3.78	6.52	0.05		5.18	4.81	10.15	0.48					
				50	18	31			25	23	49	2				1184	
	--	7.4	1988	209	44	143	2	0	317	230	340	27.0	0.5	0	--	1291	703
10-21-65				10.43	3.62	6.22	0.05		5.20	4.79	9.59	0.44					
				51	18	31			26	24	48	2				1151	
4N/23W-14G 1 S	--	7.9	2011	202	55	126	4	0	420	344	223	0.0	0.6	0.47	--	1260	731
10-14-65				10.08	4.52	5.48	0.10		6.88	7.16	6.29						
				50	22	27			34	35	31					1162	
5N/23W- 3J 2 S	--	7.5	1417	152	35	110	2	0	300	292	144	0.0	0.7	0.23	--	968	523
10-20-65				7.58	2.88	4.78	0.05		4.92	6.08	4.06						
				50	19	31			33	40	27					883	
SANTA CLARA-CALLEGUAS HYDRO UNIT U0300																	
OXNARD PLAIN HYDRO SUBUNIT U03A0																	
OXNARD HYDRO SUBAREA U03A1																	
1N/21W- 3L 1 S	--	7.4	1006	88	28	83	--	--	238	238	58	3	0.3	0.39	--	736	335
6- 3-66				4.39	2.30	3.61			3.90	4.96	1.64	0.05					
				43	22	35			37	47	16					616	
	--	8.0	955	82	29	80	2	0	194	238	59	2.5	0.4	0.22	--	665	324
10-27-65				4.09	2.38	3.48	0.05		3.18	4.96	1.66	0.04					
				41	24	35	1		32	50	17					588	
1N/21W- 4F 1 S	68	8.1	3200	345	114	135	6	0	244	820	407	2.0	1.0	0.84	--	2760	1331
4-18-66				17.22	9.38	5.87	0.15		4.00	17.07	11.48	0.03					
				53	29	18			12	52	35					1951	
1N/21W- 5A 3 S	--	7.8	2291	284	97	143	6	--	243	998	118	3	0.9	0.84	--	1991	1108
4-18-66				14.17	7.98	6.22	0.15		3.98	20.78	3.33	0.05					
				50	28	22	1		14	74	12					1770	
1N/21W- 6L 2 S	--	8.1	1310	131	45	99	4	0	242	413	56	1.5	0.9	0.61	--	972	512
10-22-65				6.54	3.70	4.30	0.10		3.97	8.60	1.58	0.02					
				45	25	29	1		28	61	11					870	
1N/21W- 6R 3 S	--	7.7	1680	181	60	62	4	0	195	516	109	1.5	0.9	0.60	--	1248	699
10-19-65				9.03	4.93	2.70	0.10		3.20	10.74	3.07	0.02					
				54	29	16	1		19	63	18					1031	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
SANTA CLARA-CALLEGUAS HYDRO UNIT U0300																	
OXNARD PLAIN HYDRO SUBUNIT U03A0																	
OXNARD HYDRO SUBAREA U03A1																	
1N/21W- 9A 1 S	68	7.8	1700	180	69	90	4	0	270	603	67	2.1	0.9	0.84	--	1280	733
4-19-66				8.98	5.67	3.91	0.10		4.43	12.55	1.89	0.03					
				48	30	21	1		23	66	10					1150	
1N/21W- 9M 1 S	69	8.2	900	73	23	78	6	9	239	147	52	3.0	0.6	0.33	--	1008	277
10-19-65				3.64	1.89	3.39	0.15	0.30	3.92	3.06	1.47	0.05					
				40	21	37	2	3	45	35	17	1				509	
1N/21W-17C 2 S	--	7.8	5500	651	237	134	7	0	144	515	1599	1.9	0.9	0.78	--	4844	2601
4-19-66				32.48	19.49	5.83	0.18		2.36	10.72	45.09	0.03					
				56	34	10			4	18	77					3217	
1N/21W-18Q 1 S	--	7.9	1162	110	36	95	--	--	278	329	45	--	0.7	0.52	--	893	423
5-12-66				5.49	2.96	4.13			4.56	6.85	1.27						
1N/21W-25C 2 S	--	8.6	1200	126	44	82	3	11	211	402	39	6.6	1.0	0.55	--	888	496
4-12-66				6.29	3.62	3.57	0.08	0.37	3.46	8.37	1.10	0.11					
				46	27	26	1	3	26	62	8	1				819	
1N/21W-30A 1 S	--	8.2	1500	148	42	87	6	24	232	371	71	8.0	0.7	0.64	--	1032	542
10-10-65				7.39	3.45	3.78	0.15	0.80	3.80	7.72	2.00	0.13					
				50	23	26	1	6	26	53	14	1				872	
1N/21W-30A 1 S	--	8.2	1460	126	49	103	2	19	209	432	58	6.7	1.4	0.68	--	940	516
4- 6-66				6.29	4.03	4.48	0.05	0.63	3.43	8.99	1.64	0.11					
				42	27	30		4	23	61	11	1				900	
1N/21W-30F 1 S	68	7.9	1100	75	28	103	5	0	287	216	46	5.5	0.1	0.39	--	456	302
4-15-66				3.74	2.30	4.48	0.13		4.70	4.50	1.30	0.09					
				35	22	42	1		44	42	12	1				620	
1N/21W-30K 1 S	67	7.8	1250	130	37	90	5	0	254	344	65	3.6	0.9	0.72	--	848	477
4- 6-66				6.49	3.04	3.91	0.13		4.16	7.16	1.83	0.06					
				48	22	29	1		31	54	14					801	
1N/21W-31J 1 S	--	7.6	1190	83	37	113	5	0	231	325	55	3.2	0.6	0.48	--	840	359
4-12-66				4.14	3.04	4.91	0.13		3.79	6.77	1.55	0.05					
				34	25	40	1		31	56	13					736	
1N/21W-31L 1 S	--	7.7	1000	66	28	96	5	0	273	174	64	5.0	0.8	0.45	--	632	280
4-12-66				3.29	2.30	4.17	0.13		4.47	3.62	1.80	0.08					
				33	23	42	1		45	36	18	1				573	
1N/21W-32A 1 S	--	8.3	1650	101	41	194	6	0	285	321	189	2.2	--	0.50	--	988	421
9- 7-66				5.04	3.37	8.44	0.15		4.67	6.68	5.33	0.04					
				30	20	50	1		28	40	32					995	
1N/21W-32G 1 S	68	7.7	1203	107	38	102	5	--	234	305	100	1.0	0.5	0.56	--	845	424
3- 2-66				5.34	3.13	4.43	0.13		3.84	6.35	2.82	0.02					
				41	24	34	1		29	49	22					774	
1N/21W-32Q 1 S	66	7.4	1426	80	40	166	4	--	217	227	221	1.5	0.4	0.32	--	893	364
3- 2-66				3.99	3.29	7.22	0.10		3.56	4.73	6.23	0.02					
				27	23	49	1		24	33	43					847	
1N/21W-32C 1 S	--	8.1	1150	88	27	111	4	0	234	326	23	3.2	1.0	0.46	--	840	331
4-12-66				4.39	2.22	4.83	0.10		3.84	6.79	0.65	0.05					
				38	19	42	1		34	60	6					699	
1N/21W-32K 1 S	--	7.8	1300	86	41	116	6	--	237	346	67	3.2	0.9	0.51	--	864	383
4-12-66				4.29	3.37	5.04	0.15		3.88	7.20	1.89	0.05					
				33	26	39	1		30	55	15					783	
1N/22W- 3F 4 S	--	7.9	1488	154	53	100	--	--	292	482	59	19	0.7	0.61	--	1159	602
5-12-66				7.68	4.36	4.35			4.79	10.04	1.66	0.31					
				47	27	27			29	60	10	2				1012	
	69	7.5	1570	157	46	83	4	0	226	482	56	8.0	0.8	0.89	--	912	581
10-18-65				7.83	3.78	3.61	0.10		3.70	10.04	1.58	0.13					
				51	25	24	1		24	65	10	1				949	
	--	7.6	1464	139	52	100	--	--	284	438	56	14.0	0.7	0.63	--		561
11- 5-65				6.94	4.28	4.35			4.65	9.12	1.58	0.23				1034	
				45	27	28			30	59	10	1				940	
1N/22W- 5M 1 S	67	8.1	1200	106	48	95	4	0	185	432	46	6.0	0.9	0.64	--	880	462
4-15-66				5.29	3.95	4.13	0.10		3.03	8.99	1.30	0.10					
				39	29	31	1		23	67	10	1				829	
1N/22W- 5K 1 S	--	8.3	1200	122	46	80	3	7	227	403	41	3.2	0.9	0.68	--	920	494
4-15-66				6.09	3.78	3.48	0.08	0.23	3.72	8.39	1.16	0.05					
				45	28	26	1	2	27	62	9					818	
1N/22W- 5R 1 S	--	7.9	1151	131	32	82	4	--	242	354	45	1	--	0.63	--	799	459
4-19-66				6.54	2.63	3.57	0.10		3.97	7.37	1.27	0.02					
				51	20	28	1		31	58	10					769	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
SANTA CLARA-CALLEGUAS HYDRO UNIT U0300																	
OXNARD PLAIN HYDRO SUBUNIT U03A0																	
OXNARD HYDRO SUBAREA U03A1																	
1N/22W- 6B 1 S	--	7.8	1085	118	41	88	4	0	246	393	37	2.5	0.9	0.68	--	900	463
7-20-66				5.89	3.37	3.83	0.10		4.03	8.18	1.04	0.04					
				45	26	29	1		30	62	8					806	
1N/22W- 6A 1 S	--	7.7	1237	129	45	91	4	--	246	401	49	4	0.9	0.65	--	907	507
4-19-66				6.44	3.70	3.96	0.10		4.03	8.35	1.38	0.06					
				45	26	28	1		29	60	10					845	
1N/22W- 7D 1 S	--	7.6	1206	112	39	93	--	--	248	361	43	0.0	0.7	0.55	--		440
11-16-65				5.59	3.21	4.04			4.06	7.52	1.21					920	
				44	25	31			32	59	9					771	
	--	8.6	1120	120	38	80	3	12	208	371	40	0.9	1.0	0.69	--	856	456
4-18-66				5.99	3.13	3.48	0.08	0.40	3.41	7.72	1.13	0.01					
				47	25	27	1	3	27	61	9					769	
1N/22W- 7H 1 S	--	8.5	1204	119	45	90	4	19	202	387	48	1	1.0	0.70	--	871	482
4-15-66				5.94	3.70	3.91	0.10	0.63	3.31	8.06	1.35	0.02					
				44	27	29	1	5	25	60	10					814	
1N/22W- 8B 2 S	--	8.3	1440	121	46	101	4	18	222	415	49	1.6	1.4	0.77	--	980	491
4-19-66				6.04	3.78	4.39	0.10	0.60	3.64	8.64	1.38	0.03					
				42	26	31	1	4	25	60	10					867	
1N/22W- 8K 3 S	--	8.3	1370	126	43	80	5	20	185	401	53	1.0	1.1	0.78	--	876	492
10-18-65				6.29	3.54	3.48	0.13	0.67	3.03	8.35	1.49	0.02					
				47	26	26	1	5	22	62	11					822	
	68	8.4	1230	122	47	85	3	5	218	387	65	0.9	1.0	0.82	--	932	498
4-15-66				6.09	3.87	3.70	0.08	0.17	3.57	8.06	1.83	0.01					
				44	28	27	1	1	26	59	13					824	
1N/22W- 8L 2 S	--	8.6	1380	114	43	92	3	28	195	393	46	1.7	1.7	0.77	--	956	462
4-19-66				5.69	3.54	4.00	0.08	0.93	3.20	8.18	1.30	0.03					
				43	27	30	1	7	23	60	10					819	
1N/22W- 9L 2 S	68	7.7	3734	405	159	145	7	0	108	471	999	1.2	1.3	0.64	--	3080	1666
4-25-66				20.21	13.08	6.30	0.18		1.77	9.81	28.17	0.02					
				51	33	16			4	25	71					2242	
1N/22W- 9D 1 S	67	8.0	1450	148	54	85	3	0	252	486	48	23.5	1.0	0.75	--	1056	592
4-19-66				7.39	4.44	3.70	0.08		4.13	10.12	1.35	0.38					
				47	28	24	1		26	63	8	2				973	
1N/22W- 9M 1 S	--	8.4	1340	132	52	91	2	13	222	445	54	3.4	1.0	0.73	--	1036	544
4-19-66				6.59	4.28	3.96	0.05	0.43	3.64	9.26	1.52	0.05					
				44	29	27		3	24	62	10					903	
1N/22W-14K 1 S	--	7.8	1258	121	40	99	--	--	259	395	47	--	0.8	0.56	--	961	467
5-12-66				6.04	3.29	4.30			4.25	8.22	1.33						
1N/22W-14D 1 S	--	8.0	1550	147	44	100	4	0	256	460	62	2.9	0.8	1.05	--	812	548
4-13-66				7.34	3.62	4.35	0.10		4.20	9.58	1.75	0.05					
				48	23	28	1		27	61	11					948	
1N/22W-14F 1 S	--	7.9	1330	128	44	75	4	0	251	408	16	0.6	0.6	0.79	--	984	501
4-11-66				6.39	3.62	3.26	0.10		4.11	8.49	0.45	0.01					
				48	27	24	1		31	65	3					800	
1N/22W-14K 1 S	--	8.1	1400	125	36	106	4	0	250	405	55	0.0	0.9	0.48	--	720	460
4-13-66				6.24	2.96	4.61	0.10		4.10	8.43	1.55						
				45	21	33	1		29	60	11					855	
1N/22W-14R 3 S	--	8.3	1350	117	39	95	4	19	232	354	60	2.0	0.5	0.42	--	640	453
4-13-66				5.84	3.21	4.13	0.10	0.63	3.80	7.37	1.69	0.03					
				44	24	31	1	5	28	55	13					805	
1N/22W-15B 3 S	--	8.2	1450	134	41	100	5	13	218	427	60	6.5	0.6	0.57	--	796	503
4-11-66				6.69	3.37	4.35	0.13	0.43	3.57	8.89	1.69	0.10					
				46	23	30	1	3	24	61	12	1				895	
1N/22W-15C 1 S	--	7.7	5100	575	204	129	8	0	200	496	1328	1.6	0.9	0.74	--	4080	2275
4- 7-66				28.69	16.78	5.61	0.20		3.28	10.33	37.45	0.03					
				56	33	11			6	20	73					2842	
1N/22W-15L 1 S	--	7.8	1820	180	61	90	4	0	233	422	201	2.7	1.0	0.94	--	1152	701
4- 8-66				8.98	5.02	3.91	0.10		3.82	8.79	5.67	0.04					
				50	28	22	1		21	48	31					1077	
1N/22W-15P 1 S	--	7.7	1900	189	63	90	6	0	229	408	226	1.3	0.9	0.76	--	1224	731
4- 8-66				9.43	5.18	3.91	0.15		3.75	8.49	6.37	0.02					
				51	28	21	1		20	46	34					1097	
1N/22W-16D 1 S	--	7.9	1300	122	36	85	5	0	237	374	50	0.0	0.4	1.00	--	624	453
4- 7-66				6.09	2.96	3.70	0.13		3.88	7.79	1.41						
				47	23	29	1		30	60	11					790	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
SANTA CLARA-CALLEGUAS HYDRO UNIT U0300																	
OXNARD PLAIN HYDRO SUBUNIT U03A0																	
OXNARD HYDRO SUBAREA U03A1																	
1N/22W-17M 3 S	66	8.2	705	7	29	91	4	0	80	210	41	0.6	0.6	0.62	--	405	137
4-19-66				0.35	2.38	3.96	0.10		1.31	4.37	1.16	0.01					
				5	35	58	1		19	64	17					423	
1N/22W-17C 1 S	--	7.7	2000	186	63	114	6	0	218	371	298	0.0	0.8	0.50	--	1240	724
4- 4-66				9.28	5.18	4.96	0.15		3.57	7.72	8.40						
				47	26	25	1		18	39	43					1146	
1N/22W-17D 2 S	--	8.1	1350	124	43	85	5	0	236	406	41	1.7	0.9	0.80	--	884	487
4- 8-66				6.19	3.54	3.70	0.13		3.87	8.45	1.16	0.03					
				46	26	27	1		29	63	9					823	
1N/22W-17J 2 S	68	8.2	1900	200	50	85	7	27	157	391	222	0.0	0.8	0.65	--	1348	705
10-20-65				9.98	4.11	3.70	0.18	0.90	2.57	8.14	6.26						
				56	23	21	1	5	14	46	35					1061	
	65	8.0	1341	95	53	101	5	--	138	320	159	2	0.7	0.76	--	893	455
3-15-66				4.74	4.36	4.39	0.13		2.26	6.66	4.48	0.03					
				35	32	32	1		17	50	33					804	
1N/22W-17Q 1 S	68	7.7	11000	437	232	1500	21	0	20	1162	3015	2.0	0.7	0.68	--	7388	2046
10-20-65				21.81	19.08	65.22	0.54		0.33	24.19	85.02	0.03					
				20	18	61	1			22	78					6380	
1N/22W-17Q 1 S	66	7.1	6698	761	124	910	12	--	22	338	2034	0	0.4	0.79	--	4142	1162
3-15-66				13.02	10.20	39.57	0.31		0.36	7.04	57.36						
				21	16	63			1	11	89					3691	
1N/22W-18L 2 S	68	8.4	1134	126	35	84	4	14	220	378	39	0.3	0.7	0.64	--	815	459
5- 9-66				6.29	2.88	3.65	0.10	0.47	3.61	7.87	1.10						
				49	22	28	1	4	28	60	8					790	
1N/22W-18E 1 S	--	8.3	1120	123	36	75	3	7	220	369	35	1.6	0.8	0.68	--	856	455
4-15-66				6.14	2.96	3.26	0.08	0.23	3.61	7.68	0.99	0.03					
				49	24	26	1	2	29	61	8					759	
1N/22W-18P 1 S	--	8.2	1190	127	29	82	3	14	205	361	43	0.6	0.6	0.70	--	872	436
4-15-66				6.34	2.38	3.57	0.08	0.47	3.36	7.52	1.21	0.01					
				51	19	29	1	4	27	60	10					762	
1N/22W-19A 1 S	--	8.3	1425	124	34	118	5	17	182	440	60	8.0	0.8	0.59	--	932	450
10-19-65				6.19	2.80	5.13	0.13	0.57	2.98	9.16	1.69	0.13					
				43	20	36	1	4	21	63	12	1				897	
	--	8.3	1130	124	36	75	3	8	218	362	38	1.6	0.9	0.70	--	840	458
4-19-66				6.19	2.96	3.26	0.08	0.27	3.57	7.54	1.07	0.03					
				50	24	26	1	2	29	60	9					756	
1N/22W-20K 2 S	--	7.5	40650	1073	1052	8800	94	--	137	2308	16994	3.0	1.9	2.60	--	31700	7009
5- 5-66				53.54	86.52	382.62	2.40		2.25	48.05	479.23	0.05					
				10	16	73				9	90					30396	
1N/22W-20K 3 S	67	7.3	10290	810	257	1100	20	--	221	708	3260	0.5	1.5	0.80	--	6930	3080
5- 5-66				40.42	21.14	47.83	0.51		3.62	14.74	91.93	0.01					
				37	19	44			3	13	83					6266	
1N/22W-20K 4 S	--	7.5	1095	98	33	96	9	--	314	268	38	2.7	0.5	0.66	--	747	380
5- 5-66				4.89	2.71	4.17	0.23		5.15	5.58	1.07	0.04					
				41	23	35	2		43	47	9					700	
1N/22W-20E 2 S	--	8.0	1222	125	35	91	--	--	262	377	42	--	0.3	0.37	--	932	456
5-12-66				6.24	2.88	3.96			4.29	7.85	1.18						
1N/22W-20H 5 S	68	7.9	990	70	29	98	6	--	211	281	37	0.0	0.6	0.72	--	687	294
4-21-66				3.49	2.38	4.26	0.15		3.46	5.85	1.04						
				34	23	41	1		33	57	10					626	
1N/22W-20H 6 S	67	7.4	39526	1175	1099	8640	54	--	185	2304	16756	3.0	1.9	2.60	--	31196	7456
4-21-66				58.63	90.38	375.67	1.38		3.03	47.97	472.52	0.05					
				11	17	71			1	9	90					30126	
1N/22W-20H 7 S	67	7.7	2513	271	78	139	7	--	228	366	514	0.5	0.7	0.60	--	2110	997
4-21-66				13.52	6.41	6.04	0.18		3.74	7.62	14.49	0.01					
				52	25	23	1		14	29	56					1489	
1N/22W-20E 1 S	--	7.7	1139	126	34	82	4	--	237	363	43	1	0.6	0.61	--	807	455
4-18-66				6.29	2.80	3.57	0.10		3.88	7.56	1.21	0.02					
				49	22	28	1		31	60	10					771	
1N/22W-20E 2 S	--	7.7	1178	122	29	93	--	--	261	336	43	0.0	0.4	0.38	--		424
11-16-65				6.09	2.38	4.04			4.28	7.00	1.21					900	
				49	19	32			34	56	10					752	
1N/22W-20H 1 S	--	7.5	47200	1078	1216	8970	75	0	185	800	18490	3.0	1.2	2.85	--	40888	7696
1-13-66				53.79	100.00	390.02	1.92		3.03	16.66	521.42	0.05					
				10	18	71			1	3	96					30727	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
SANTA CLARA-CALLEGUAS HYDRO UNIT U0300																	
OXNARD PLAIN HYDRO SUBUNIT U03A0																	
OXNARD HYDRO SUBAREA U03A1																	
1N/22W-20K 1 S	--	7.5	47400	772	1195	9660	145	0	185	800	19500	3.0	1.2	3.60	--	42504	6845
1-14-66				38.52	98.28	420.02	3.71		3.03	16.66	549.90	0.05					
				7	18	75	1		1	3	97					32171	
1N/22W-20R 1 S	68	7.4	3500	932	980	5770	128	0	28	3435	11000	4.0	0.8	2.00	--	27972	6361
10-19-65				46.51	80.60	250.88	3.27		0.46	71.52	310.20	0.06					
				12	21	66	1			19	81					22266	
	67	7.3	20243	441	466	3640	66	--	22	926	7345	0.0	0.7	1.84	--	13477	3019
3-15-66				22.01	38.32	158.27	1.69		0.36	19.28	207.13						
				10	17	72	1			9	91					12897	
1N/22W-21B 1 S	--	7.8	4200	422	107	279	8	0	236	475	1023	2.5	0.7	0.46	--	3420	1494
4- 7-66				21.06	8.80	12.13	0.20		3.87	9.89	28.85	0.04					
				50	21	29			9	23	68					2434	
1N/22W-21B 3 S	--	8.0	1310	127	29	85	6	0	203	370	46	2.0	0.6	0.60	--	836	436
10-26-65				6.34	2.38	3.70	0.15		3.33	7.70	1.30	0.03					
				50	19	29	1		27	62	11					766	
	--	7.9	1300	130	33	78	2	0	231	384	38	2.9	0.7	0.68	--	860	460
4- 7-66				6.49	2.71	3.39	0.05		3.79	7.99	1.07	0.05					
				51	21	27			29	62	8					783	
1N/22W-21E 9 S	--	8.5	40000	1650	785	6280	50	10	8	663	14270	3.2	1.2	1.85	--	33316	7351
1-14-66				82.34	64.56	273.05	1.28	0.33	0.13	13.80	402.41	0.05					
				20	15	65				3	97					23718	
1N/22W-21E10 S	--	7.5	47200	1140	1158	8490	63	0	208	862	17730	3.2	1.2	1.60	--	38140	7612
1-13-66				56.89	95.23	369.15	1.61		3.41	17.95	499.99	0.05					
				11	18	71			1	3	96					29551	
1N/22W-21F 1 S	--	7.5	44300	1405	1055	8160	28	0	285	810	17090	3.0	1.2	1.60	--	34640	7850
1-13-66				70.11	86.76	354.80	0.72		4.67	16.86	481.94	0.05					
				14	17	69			1	3	96					28694	
1N/22W-21J 4 S	--	7.3	1500	150	39	102	2	0	257	454	57	5.0	0.8	1.34	--	1092	535
4- 7-66				7.49	3.21	4.43	0.05		4.21	9.45	1.61	0.08					
				49	21	29			27	62	10	1				937	
1N/22W-21L 1 S	67	7.4	5621	530	194	315	10	0	12	287	1735	9.0	0.4	0.63	--	4640	2122
11- 4-65				26.45	15.95	13.70	0.26		0.20	5.98	48.93	0.15					
				47	28	24				11	89					3087	
1N/22W-21L 4 S	--	7.5	39600	1360	1015	5250	50	0	269	812	12410	3.0	1.1	1.65	--	32924	7573
1-12-66				67.86	83.47	228.27	1.28		4.41	16.91	349.96	0.05					
				18	22	60			1	5	94					21035	
1N/22W-21L 5 S	--	7.5	39700	1194	1111	6250	80	0	317	807	14540	3.0	1.2	2.00	--	35668	7554
1-12-66				59.58	91.37	271.75	2.05		5.20	16.80	410.03	0.05					
				14	22	64			1	4	95					24144	
1N/22W-21L 6 S	--	7.6	30600	1082	728	5550	62	0	260	805	11620	3.0	1.1	1.70	--	24432	5698
1-13-66				53.99	59.87	241.31	1.59		4.26	16.76	327.68	0.05					
				15	17	68			1	5	94					19981	
1N/22W-21M 1 S	--	7.4	47500	1279	1130	7610	63	0	236	890	16230	2.5	1.2	2.50	--	40728	7844
1-13-66				63.82	92.93	330.88	1.61		3.87	18.53	457.69	0.04					
				13	19	68			1	4	95					27324	
1N/22W-21M 2 S	--	7.1	44000	1950	990	6670	62	0	278	809	15650	3.0	1.2	1.95	--	37352	8944
1-13-66				97.31	81.42	290.01	1.59		4.56	16.84	441.33	0.05					
				21	17	62			1	4	95					26274	
1N/22W-21M 3 S	--	7.7	17600	465	365	3140	30	0	458	795	5900	2.5	1.0	1.35	--	11444	2663
1-13-66				23.20	30.02	136.53	0.77		7.51	16.55	166.38	0.04					
				12	16	72			4	9	87					10925	
1N/22W-21E 4 S	--	7.5	47200	1810	780	8370	115	0	258	865	17420	3.0	1.2	2.65	--	40368	7730
1-13-66				90.32	64.15	363.93	2.94		4.23	18.01	491.24	0.05					
				17	12	70	1		1	4	96					29494	
1N/22W-21E 5 S	--	7.4	47200	1150	1165	8900	62	0	227	1082	17910	3.0	1.2	1.70	--	37536	7666
1-13-66				57.39	95.81	386.97	1.59		3.72	22.53	505.06	0.05					
				11	18	71			1	4	95					30387	
1N/22W-21E 6 S	--	7.7	47400	1022	1166	9540	60	0	219	781	19030	3.1	1.2	1.80	--	36400	7350
1-14-66				51.00	95.89	414.80	1.53		3.59	16.26	536.65	0.05					
				9	17	74			1	3	96					31713	
1N/22W-21E 7 S	--	8.0	1400	126	34	125	5	0	240	295	155	1.3	0.9	0.50	--	868	455
1-11-66				6.29	2.80	5.44	0.13		3.93	6.14	4.37	0.02					
				43	19	37	1		27	42	30					861	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
SANTA CLARA-CALLEGUAS HYDRO UNIT U0300																	
OXNARD PLAIN HYDRO SUBUNIT U03A0																	
OXNARD HYDRO SUBAREA U03A1																	
1N/22W-21E 8 S	--	7.4	9050	1075	3450	700	15	0	163	489	3591	1.5	0.9	0.47	--	7740	6882
1-12-66				53.64	283.73	30.44	0.38		2.67	10.18	101.27	0.02					
				15	77	8			2	9	89					9403	
	--	7.4	9050	1075	345	700	15	0	163	489	3591	1.5	0.9	0.47	--	7740	4104
1-12-66				53.64	28.37	30.44	0.38		2.67	10.18	101.27	0.02					
				48	25	27			2	9	89					6298	
1N/22W-22K 3 S	68	7.7	6123	425	284	920	8	0	334	3368	315	13	1.9	3.50	--	6090	2230
3-16-66				21.21	23.36	40.00	0.20		5.47	70.12	8.88	0.21					
				25	28	47			6	83	10					5503	
1N/22W-22H 3 S	66	7.6	1776	230	61	115	6	0	315	671	93	12	0.7	0.86	--	1460	826
3-17-66				11.48	5.02	5.00	0.15		5.16	13.97	2.62	0.19					
				53	23	23	1		24	64	12	1				1344	
1N/22W-22A 1 S	--	8.3	1350	140	39	62	13	27	212	348	60	3.0	0.9	0.73	--	920	510
10-18-65				6.99	3.21	2.70	0.33	0.90	3.47	7.25	1.69	0.05					
				53	24	20	2	7	26	54	13					798	
1N/22W-22C 1 S	--	8.1	2700	309	102	108	4	0	203	427	565	3.1	0.9	0.74	--	2032	1191
4- 8-66				15.42	8.39	4.70	0.10		3.33	8.89	15.93	0.05					
				54	29	16			12	32	56					1620	
1N/22W-22H 1 S	68	7.8	2100	244	52	95	7	0	224	350	340	2.0	0	0.70	--	1644	824
10-23-65				12.18	4.28	4.13	0.18		3.67	7.29	9.59	0.03					
				59	21	20	1		18	35	47					1201	
1N/22W-22H 2 S	67	7.8	4050	470	127	125	7	0	220	401	975	1.0	0	0.74	--	3164	1696
10-23-65				23.45	10.44	5.44	0.18		3.61	8.35	27.50	0.02					
				59	26	14			9	21	70					2215	
	68	7.8	3256	365	123	134	6	--	132	381	850	2.0	0.7	0.67	--	2962	1418
3-17-66				18.21	10.12	5.83	0.15		2.16	7.93	23.97	0.03					
				53	29	17			6	23	70					1927	
1N/22W-22H 3 S	67	7.6	2200	229	61	112	14	0	329	677	71	6.0	0.3	0.68	--	1432	823
10-23-65				11.43	5.02	4.87	0.36		5.39	14.10	2.00	0.10					
				53	23	22	2		25	65	9					1333	
1N/22W-22H 4 S	65	7.5	2836	403	115	156	19	--	307	1319	126	30.0	1.2	2.00	--	2559	1480
3-17-66				20.11	9.46	6.78	0.49		5.03	27.46	3.55	0.48					
				55	26	18	1		14	75	10	1				2322	
1N/22W-22H 5 S	67	7.8	2040	197	66	100	10	0	201	379	309	0.0	0.8	0.78	--	1424	764
10-18-65				9.83	5.43	4.35	0.26		3.29	7.89	8.71						
				49	27	22	1		17	40	44					1161	
	65	8.1	1880	180	56	102	7	0	244	355	248	1.0	0.8	0.83	--	1268	680
3-17-66				8.98	4.61	4.43	0.18		4.00	7.39	6.99	0.02					
				49	25	24	1		22	40	38					1071	
1N/22W-22J 2 S	--	8.1	1600	176	55	100	5	0	219	356	226	0.9	0.9	0.82	--	1364	666
4- 7-66				8.78	4.52	4.35	0.13		3.59	7.41	6.37	0.01					
				49	25	24	1		21	43	37					1028	
1N/22W-22J 3 S	--	7.5	5300	602	193	163	8	0	191	414	1461	5.0	0.7	1.30	--	4244	2297
4- 8-66				30.04	15.87	7.09	0.20		3.13	8.62	41.20	0.08					
				56	30	13			6	16	78					2942	
1N/22W-22K 1 S	--	7.8	3000	320	101	112	6	0	182	431	616	2.5	1.0	0.76	--	2319	1215
4- 8-66				15.97	8.31	4.87	0.15		2.98	8.97	17.37	0.04					
				55	28	17	1		10	31	59					1680	
1N/22W-22K 2 S	66	7.7	2700	281	78	132	10	0	236	384	517	1.0	1.1	0.81	--	1960	1022
10-19-65				14.02	6.41	5.74	0.26		3.87	7.99	14.58	0.02					
				53	24	22	1		15	30	55					1521	
	69	7.8	2380	258	81	124	6	--	207	372	476	0	0.6	0.71	--	1973	977
3-17-66				12.87	6.66	5.39	0.15		3.39	7.75	13.42						
				51	27	21	1		14	32	55					1420	
1N/22W-22R 5 S	--	8.5	1350	125	36	81	7	36	231	303	56	10.0	0.8	0.28	--	788	460
10-20-65				6.24	2.96	3.52	0.18	1.20	3.79	6.31	1.58	0.16					
				48	23	27	1	9	29	48	12	1				769	
	--	8.2	1300	122	38	90	5	5	299	322	49	12.5	0.6	0.84	--	800	461
4- 5-66				6.09	3.13	3.91	0.13	0.17	4.90	6.70	1.38	0.20					
				46	24	29	1	1	37	50	10	1				792	
1N/22W-23A 1 S	--	8.0	1400	124	36	107	4	0	248	396	59	0.0	0.8	1.00	--	1092	458
4-15-66				6.19	2.96	4.65	0.10		4.06	8.24	1.66						
				45	21	33	1		29	59	12					850	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
SANTA CLARA-CALLEGUAS HYDRO UNIT U0300																	
OXNARD PLAIN HYDRO SUBUNIT U03A0																	
OXNARD HYDRO SUBAREA U03A1																	
1N/22W-23C 1 S	--	8.1	1180	114	41	59	3	0	191	339	49	2.0	1.1	0.75	--	840	453
10-19-65				5.69	3.37	2.57	0.08		3.13	7.06	1.38	0.03					
				49	29	22	1		27	61	12					703	
	--	7.7	1300	125	36	73	4	0	262	366	53	3.0	0.9	0.76	--	912	460
4- 7-66				6.24	2.96	3.17	0.10		4.29	7.62	1.49	0.05					
				50	24	25	1		32	57	11					790	
1N/22W-23E 2 S	66	7.9	2000	209	56	100	7	0	252	349	302	1.0	0	0.78	--	1472	753
10-18-65				10.43	4.61	4.35	0.18		4.13	7.27	8.52	0.02					
				53	24	22	1		21	36	43					1149	
	68	8.0	2600	255	83	128	10	0	231	360	496	1.0	0.8	0.81	--	1920	978
3-17-66				12.72	6.83	5.57	0.26		3.79	7.50	13.99	0.02					
				50	27	22	1		15	30	55					1448	
1N/22W-23E 3 S	69	7.2	9500	487	304	1040	8	0	370	3962	222	17.0	1.3	6.55	--	9625	2467
10-23-65				24.30	25.00	45.22	0.20		6.06	82.49	6.26	0.27					
				26	26	48			6	87	7					6230	
	67	7.9	1100	81	35	88	3	0	239	222	77	5.4	1.4	0.59	--	640	346
3-17-66				4.04	2.88	3.83	0.08		3.92	4.62	2.17	0.09					
				37	27	35	1		36	43	20	1				631	
1N/22W-23N 2 S	--	7.1	2200	26	50	146	390	0	249	340	372	20.0	1.3	0.70	--	1388	271
4- 5-66				1.30	4.11	6.35	9.97		4.08	7.08	10.49	0.32					
				6	19	29	46		19	32	48	1				1468	
1N/22W-23Q 1 S	--	8.1	1760	164	55	102	6	0	200	447	166	1.6	0.9	0.74	--	1142	636
4- 5-66				8.18	4.52	4.43	0.15		3.28	9.31	4.68	0.03					
				47	26	26	1		19	54	27					1042	
1N/22W-23R 1 S	--	8.2	1600	162	46	103	5	17	225	455	102	1.5	0.8	1.05	--	868	593
4-12-66				8.08	3.78	4.48	0.13	0.57	3.69	9.47	2.88	0.02					
				49	23	27	1	3	22	57	17					1004	
1N/22W-25J 1 S	--	8.3	1280	86	39	110	8	5	260	291	49	27.5	0.7	0.70	--	768	375
4- 6-66				4.29	3.21	4.78	0.20	0.17	4.26	6.06	1.38	0.44					
				34	26	38	2	1	35	49	11	4				745	
1N/22W-26M 1 S	64	7.7	1862	181	59	135	6	0	205	378	302	0.0	0.8	0.63	--	1285	695
4-14-66				9.03	4.85	5.87	0.15		3.36	7.87	8.52						
				45	24	29	1		17	40	43					1163	
1N/22W-26A 1 S	68	8.3	1600	162	45	102	4	28	190	430	120	1.0	0.6	0.65	--	1044	589
10-20-65				8.08	3.70	4.43	0.10	0.93	3.11	8.95	3.38	0.02					
				50	23	27	1	6	19	55	21					987	
1N/22W-26B 2 S	--	8.6	1450	131	42	98	4	24	190	428	45	5.0	0.9	0.59	--	956	500
4- 5-66				6.54	3.45	4.26	0.10	0.80	3.11	8.91	1.27	0.08					
				46	24	30	1	6	22	63	9	1				872	
1N/22W-26D 2 S	68	7.9	1350	118	39	91	4	0	261	365	46	7.0	0.9	0.79	--	888	455
4- 5-66				5.89	3.21	3.96	0.10		4.28	7.60	1.30	0.11					
				45	24	30	1		32	57	10	1				800	
1N/22W-26J 1 S	69	8.7	1110	94	35	73	3	32	239	215	56	3.3	0.9	0.68	--	720	379
4- 6-66				4.69	2.88	3.17	0.08	1.07	3.92	4.48	1.58	0.05					
				43	27	29	1	10	35	40	14					630	
1N/22W-26J 2 S	--	8.2	1100	81	35	78	6	13	230	239	46	2.7	0.9	0.65	--	656	346
4- 6-66				4.04	2.88	3.39	0.15	0.43	3.77	4.98	1.30	0.04					
				39	28	32	1	4	36	47	12					615	
1N/22W-26K 1 S	--	8.4	2550	184	73	184	9	13	136	414	429	2.5	0.7	0.70	--	1744	760
4- 6-66				9.18	6.00	8.00	0.23	0.43	2.23	8.62	12.10	0.04					
				39	26	34	1	2	10	37	52					1377	
1N/22W-26Q 1 S	70	8.4	1289	109	44	88	7	18	212	364	43	5.5	0.5	0.45	--	868	453
10-13-65				5.44	3.62	3.83	0.18	0.60	3.47	7.58	1.21	0.09					
				42	28	29	1	5	27	59	9	1				784	
1N/22W-27B 4 S	64	7.1	789	11	26	105	6	0	61	220	69	2.8	0.3	0.55	--	450	135
4-14-66				0.55	2.14	4.57	0.15		1.00	4.58	1.95	0.05					
				7	29	62	2		13	60	26	1				471	
1N/22W-27R 1 S	66	8.0	1022	83	37	87	4	0	167	331	44	0.0	0.8	0.32	--	712	359
4-14-66				4.14	3.04	3.78	0.10		2.74	6.89	1.24						
				37	27	34	1		25	63	11					669	
1N/22W-27R 2 S	65	7.4	1536	73	40	178	7	0	90	247	286	1.0	0.7	0.52	--	972	347
4-15-66				3.64	3.29	7.74	0.18		1.48	5.14	8.07	0.02					
				25	22	52	1		10	35	55					877	
1N/22W-27F 2 S	--	7.4	1300	130	34	78	4	0	197	403	44	0.0	0.6	0.65	--	808	465
10-20-65				6.49	2.80	3.39	0.10		3.23	8.39	1.24						
				51	22	27	1		25	65	10					791	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C 105C COMP	HARDNESS CACO3
SANTA CLARA-CALLEGUAS HYDRO UNIT U0300																	
OXNARD PLAIN HYDRO SUBUNIT U03A0																	
OXNARD HYDRO SUBAREA U03A1																	
1N/22W-27J 2 S	--	7.7	2650	227	73	194	7	0	268	420	442	37.0	0.8	1.30	--	1868	867
4- 5-66				11.33	6.00	8.44	0.18		4.39	8.74	12.46	0.60					
				44	23	33	1		17	33	48	2				1534	
1N/22W-28C 1 S	68	6.8	10582	381	206	1660	19	--	27	477	3458	1.3	1.2	1.60	--	6640	1799
3-18-66				19.01	16.94	72.18	0.49		0.44	9.93	97.52	0.02					
				18	16	66				9	90					6218	
1N/22W-28B 1 S	66	7.9	7000	411	180	750	24	0	20	798	1823	2.0	0.5	0.80	--	4652	1767
10-21-65				20.51	14.80	32.61	0.61		0.33	16.61	51.41	0.03					
				30	22	48	1			24	75					3999	
	66	5.9	7000	369	170	750	30	0	7	358	2057	0.6	0.4	0.76	--	4800	1621
3-18-66				18.41	13.98	32.61	0.77		0.11	7.45	58.01	0.01					
				28	21	50	1			11	88					3739	
1N/22W-28C 1 S	68	7.8	12000	419	206	1640	28	0	26	1210	3032	2.0	0.7	0.82	--	7400	1894
10-21-65				20.91	16.94	71.31	0.72		0.43	25.19	85.50	0.03					
				19	15	65	1			23	77					6551	
1N/22W-29A 4 S	68	7.4	1228	96	42	110	16	0	209	417	40	1.3	0.5	0.48	--	862	412
4-19-66				4.79	3.45	4.78	0.41		3.43	8.68	1.13	0.02					
				36	26	36	3		26	65	9					826	
	65	7.6	1214	88	40	103	21	0	225	367	45	1.0	0.4	0.50	--	834	384
11- 5-65				4.39	3.29	4.48	0.54		3.69	7.64	1.27	0.02					
				35	26	35	4		29	61	10					777	
	66	8.0	1097	67	37	108	17	--	185	317	44	18	0.2	0.47	--	726	319
3-16-66				3.34	3.04	4.70	0.43		3.03	6.60	1.24	0.29					
				29	26	41	4		27	59	11	3				700	
1N/22W-29G 1 S	--	8.3	1550	120	43	134	4	23	249	440	53	2.5	0.5	0.68	--	876	477
4-12-66				5.99	3.54	5.83	0.10	0.77	4.08	9.16	1.49	0.04					
				39	23	38	1	5	26	59	10					943	
1N/22W-35C 1 S	--	8.0	1148	113	32	91	--	--	293	298	46	--	0.5	0.46	--	873	414
5-12-66				5.64	2.63	3.96			4.80	6.20	1.30						
	--	7.7	1090	99	34	88	--	--	312	245	51	0.0	0.6	0.71	--		387
11-30-65				4.94	2.80	3.83			5.11	5.10	1.44					765	
				43	24	33			44	44	12					672	
	--	8.6	1320	124	37	83	2	16	228	357	46	3.3	0.9	0.68	--	840	462
4- 5-66				6.19	3.04	3.61	0.05	0.53	3.74	7.43	1.30	0.05					
				48	24	28		4	29	57	10					782	
1N/22W-35G 1 S	--	8.5	910	70	21	68	3	17	295	70	49	3.3	0.9	0.59	--	516	261
4- 5-66				3.49	1.73	2.96	0.08	0.57	4.84	1.46	1.38	0.05					
				42	21	36	1	7	58	18	17	1				448	
1N/22W-36B 2 S	--	8.8	1250	100	37	93	6	32	189	298	64	4.5	0.7	0.53	--	764	402
4- 6-66				4.99	3.04	4.04	0.15	1.07	3.10	6.20	1.80	0.07					
				41	25	33	1	9	25	51	15	1				729	
1N/23W- 1H 1 S	--	7.8	1153	120	37	84	4	--	269	325	45	3	0.9	0.72	--	828	452
4-18-66				5.99	3.04	3.65	0.10		4.41	6.77	1.27	0.05					
				47	24	29	1		35	54	10					752	
2N/21W- 6P 1 S	--	7.9	2134	194	78	200	--	--	360	751	113	0.0	0.7	0.99	--		805
11- 9-65				9.68	6.41	8.70			5.90	15.64	3.19					1738	
				39	26	35			24	63	13					1515	
2N/21W-12D 1 S	--	7.7	1994	181	58	205	--	--	366	677	80	5	0.5	0.47	--	1572	691
5-11-66				9.03	4.77	8.91			6.00	14.10	2.26	0.08					
				40	21	39			27	63	10					1387	
2N/21W-19A 2 S	--	7.8	1656	162	59	149	--	--	293	600	71	8	0.7	0.64	--	1342	647
5-11-66				8.08	4.85	6.48			4.80	12.49	2.00	0.13					
				42	25	33			25	64	10	1				1194	
2N/21W-27M 2 S	--	7.8	2000	195	63	113	5	0	238	578	84	25.5	0.9	0.89	--	1144	746
4-20-66				9.73	5.18	4.91	0.13		3.90	12.03	2.37	0.41					
				49	26	25	1		21	64	13	2				1182	
2N/21W-29K 2 S	--	7.7	1050	78	29	87	5	0	255	221	61	4.0	0.4	0.20	--	696	314
10-22-65				3.89	2.38	3.78	0.13		4.18	4.60	1.72	0.06					
				38	23	37	1		40	44	16	1				611	
2N/21W-29L 1 S	--	8.1	1641	153	54	116	4	0	306	251	230	16.0	0.7	0.39	--	1064	604
10-22-65				7.63	4.44	5.04	0.10		5.02	5.23	6.49	0.26					
				44	26	29	1		30	31	38	2				975	
2N/21W-29L 3 S	--	7.5	1290	108	31	102	5	0	233	344	59	7.0	0.6	0.46	--	828	397
10-22-65				5.39	2.55	4.43	0.13		3.82	7.16	1.66	0.11					
				43	20	35	1		30	56	13	1				772	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUE										MILLIGRAMS PER LITER			
SANTA CLARA-CALLEGUAS HYDRO UNIT U0300																	
OXNARD PLAIN HYDRO SUBUNIT U03A0																	
OXNARD HYDRO SUBAREA U03A1																	
2N/22W-11A 1 S	--	8.1	2010	185	50	204	6	0	374	685	80	9.4	--	0.70	--	1400	668
9-30-66				9.23	4.11	8.87	0.15		6.13	14.26	2.26	0.15					
				41	18	40	1		27	63	10	1				1404	
2N/22W-12D 1 S	--	7.0	1858	162	58	182	--	--	319	624	75	5.0	0.4	0.71	--		643
11- 4-65				8.08	4.77	7.91			5.23	12.99	2.12	0.08				1360	
				39	23	38			26	64	10					1264	
2N/22W-12E 1 S	--	7.5	2141	237	82	164	6	0	317	835	116	3.0	0.7	0.80	--	1700	929
10-20-65				11.83	6.74	7.13	0.15		5.20	17.38	3.27	0.05					
				46	26	28	1		20	67	13					1600	
2N/22W-12G 1 S	--	7.6	2542	265	88	198	7	0	309	951	144	0.0	0.9	0.96	--	2006	1024
10-13-65				13.22	7.24	8.61	0.18		5.06	19.80	4.06						
				45	25	29	1		17	68	14					1807	
2N/22W-12L 2 S	--	7.8	1862	211	73	150	6	0	320	732	97	4.0	0.9	0.76	--	1550	827
11- 9-65				10.53	6.00	6.52	0.15		5.24	15.24	2.74	0.06					
				45	26	28	1		23	65	12					1432	
2N/22W-12M 2 S	--	7.7	1653	176	59	126	5	0	329	567	71	3.0	0.8	0.72	--	1260	682
10- 9-65				8.78	4.85	5.48	0.13		5.39	11.80	2.00	0.05					
				46	25	28	1		28	61	10					1170	
2N/22W-13K 3 S	--	8.0	1471	87	46	164	5	--	157	503	83	1.0	0.8	0.68	--	1060	406
5-10-66				4.34	3.78	7.13	0.13		2.57	10.47	2.34	0.02					
				28	25	46	1		17	68	15					968	
2N/22W-13L 3 S	--	7.7	1441	157	56	129	5	0	284	551	63	12.0	0.7	0.92	--	1180	622
11- 9-65				7.83	4.61	5.61	0.13		4.65	11.47	1.78	0.19					
				43	25	31	1		26	63	10	1				1114	
2N/22W-14P 2 S	--	7.7	1160	110	38	79	--	--	235	354	39	5	0.7	0.40	--	860	431
3-25-66				5.49	3.13	3.43			3.85	7.37	1.10	0.08					
				46	26	28			31	59	9	1				742	
2N/22W-15Q 1 S	--	7.5	1739	155	51	147	5	0	269	547	75	35.0	0.8	0.52	--	1185	596
10-20-65				7.73	4.19	6.39	0.13		4.41	11.39	2.12	0.56					
				42	23	35	1		24	62	11	3				1149	
2N/22W-15Q 3 S	72	8.1	1610	150	51	148	5	0	259	547	76	32.0	0.9	0.52	--	1170	584
10-14-65				7.49	4.19	6.44	0.13		4.25	11.39	2.14	0.52					
				41	23	35	1		23	62	12	3				1138	
2N/22W-16K 1 S	--	7.8	1397	114	44	151	--	--	254	475	54	7	0.7	0.55	--	1099	466
5-12-66				5.69	3.62	6.57			4.16	9.89	1.52	0.11					
				36	23	41			27	63	10	1				971	
	--	7.8	1442	114	45	125	--	0	259	437	56	7.0	0.7	0.70	--		470
11- 5-65				5.69	3.70	5.44			4.25	9.10	1.58	0.11				987	
				38	25	37			28	61	11	1				913	
2N/22W-17Q 1 S	--	7.6	1600	155	40	114	5	0	240	478	78	1.0	0.8	0.43	--	1092	551
10-20-65				7.73	3.29	4.96	0.13		3.93	9.95	2.20	0.02					
				48	20	31	1		24	62	14					990	
2N/22W-20J 1 S	68	7.8	1245	126	41	96	4	0	243	409	47	2.1	0.9	0.57	--	905	483
4-27-66				6.29	3.37	4.17	0.10		3.98	8.52	1.33	0.03					
				45	24	30	1		29	61	10					846	
2N/22W-20Q 1 S	--	7.5	1673	164	57	151	--	--	277	578	87	19	0.6	0.60	--	1333	644
5-12-66				8.18	4.69	6.57			4.54	12.03	2.45	0.31					
				42	24	34			23	62	13	2				1193	
2N/22W-20M 7 S	--	7.9	1550	128	40	125	6	0	188	480	63	12.0	0.9	4.00	--	1004	484
10-25-65				6.39	3.29	5.44	0.15		3.08	9.99	1.78	0.19					
				42	22	36	1		20	66	12	1				951	
2N/22W-20Q 1 S	--	7.8	1635	150	53	125	--	0	271	487	81	16.0	0.7	0.54	--		593
11- 9-65				7.49	4.36	5.44			4.44	10.14	2.28	0.26				1192	
				43	25	31			26	59	13	2				1046	
2N/22W-21D 3 S	--	8.5	1912	202	72	143	5	21	252	685	97	35.0	0.8	0.76	--	1487	801
10- 7-65				10.08	5.92	6.22	0.13	0.70	4.13	14.26	2.74	0.56					
				45	26	28	1	3	18	64	12	3				1385	
2N/22W-23B 1 S	--	7.7	1277	116	48	86	--	--	247	395	46	7	0.7	0.45	--	945	487
3-24-66				5.79	3.95	3.74			4.05	8.22	1.30	0.11					
				43	29	28			30	60	10	1				821	
2N/22W-23B 2 S	--	7.7	1162	105	41	80	--	--	222	353	39	5	0.8	0.35	--	845	431
3-24-66				5.24	3.37	3.48			3.64	7.35	1.10	0.08					
				43	28	29			30	60	9	1				733	
2N/22W-23C 1 S	--	7.6	1162	104	44	82	--	--	226	365	39	5	0.8	0.43	--	865	441
3-25-66				5.19	3.62	3.57			3.70	7.60	1.10	0.08					
				42	29	29			30	61	9	1				751	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
SANTA CLARA-CALLEGUAS HYDRO UNIT U0300																	
OXNARD PLAIN HYDRO SUBUNIT U03A0																	
OXNARD HYDRO SUBAREA U03A1																	
2N/22W-23C 3 S	--	7.7	1424	135	47	110	--	--	274	453	56	4	0.7	0.49	--	1079	531
3-25-66				6.74	3.87	4.78			4.49	9.43	1.58	0.06					
				44	25	31			29	61	10					941	
2N/22W-23G 1 S	--	7.6	1247	112	39	91	--	--	233	381	43	7	0.8	0.52	--	906	440
3-25-66				5.59	3.21	3.96			3.82	7.93	1.21	0.11					
				44	25	31			29	61	9	1				789	
2N/22W-23G 2 S	--	7.9	1332	125	49	93	--	--	253	420	50	11	0.8	0.52	--	1001	514
3-24-66				6.24	4.03	4.04			4.15	8.74	1.41	0.18					
				44	28	28			29	60	10	1				874	
2N/22W-23H 3 S	70	8.0	1546	127	65	125	5	0	134	604	72	35.0	0.8	0.80	--	1160	585
10-26-65				6.34	5.35	5.44	0.13		2.20	12.58	2.03	0.56					
				37	31	32	1		13	72	12	3				1100	
2N/22W-23J 1 S	--	7.9	1764	188	67	126	5	0	292	625	76	45.0	0.9	0.76	--	1340	745
10-14-65				9.38	5.51	5.48	0.13		4.79	13.01	2.14	0.73					
				46	27	27	1		23	63	10	4				1277	
2N/22W-23Q 1 S	68	7.5	1750	165	53	107	5	0	283	510	70	23.0	0.6	0.68	--	1084	630
10-26-65				8.23	4.36	4.65	0.13		4.64	10.62	1.97	0.37					
				47	25	27	1		26	60	11	2				1073	
2N/22W-27L 1 S	--	7.7	1692	193	68	107	6	0	386	551	73	6.0	0.9	0.76	--	1250	762
10-15-65				9.63	5.59	4.65	0.15		6.33	11.47	2.06	0.10					
				48	28	23	1		32	57	10	1				1195	
2N/22W-27M 2 S	--	7.7	2110	209	64	108	7	0	367	593	75	29.0	0.5	0.95	--	1352	785
10-18-65				10.43	5.26	4.70	0.18		6.02	12.35	2.12	0.47					
				51	26	23	1		29	59	10	2				1267	
2N/22W-28K 2 S	69	8.0	1624	139	71	127	6	0	149	609	89	29.2	1.0	0.63	--	1275	640
4-27-66				6.94	5.84	5.52	0.15		2.44	12.68	2.51	0.47					
				38	32	30	1		13	70	14	3				1145	
2N/22W-28L 1 S	68	7.9	1700	154	59	115	6	0	249	522	73	22.5	0.9	0.80	--	1170	627
4-20-66				7.68	4.85	5.00	0.15		4.08	10.87	2.06	0.36					
				43	27	28	1		23	63	12	2				1076	
2N/22W-29N 2 S	--	8.0	1700	166	59	100	4	0	268	530	58	22.5	0.9	0.68	--	1130	657
4-20-66				8.28	4.85	4.35	0.10		4.39	11.03	1.64	0.36					
				47	28	25	1		25	63	9	2				1073	
2N/22W-30J 2 S	--	7.5	1490	174	51	42	4	0	242	374	81	32.4	0.9	0.70	--	1272	644
4-20-66				8.68	4.19	1.83	0.10		3.97	7.79	2.28	0.52					
				59	28	12	1		27	54	16	4				879	
2N/22W-30P 1 S	67	7.8	1420	136	45	85	3	0	215	440	43	24.0	0.9	0.72	--	970	525
4-20-66				6.79	3.70	3.70	0.08		3.52	9.16	1.21	0.39					
				48	26	26	1		25	64	8	3				883	
2N/22W-31J 1 S	--	7.9	1300	140	49	89	4	0	243	474	42	7.2	1.0	0.68	--	1008	551
4-19-66				6.99	4.03	3.87	0.10		3.98	9.87	1.18	0.12					
				47	27	26	1		26	65	8	1				926	
2N/22W-31P 1 S	--	7.8	1120	116	39	82	3	0	224	384	38	4.5	1.0	0.76	--	840	450
4-19-66				5.79	3.21	3.57	0.08		3.67	7.99	1.07	0.07					
				46	25	28	1		29	62	8	1				778	
2N/22W-31R 1 S	--	7.8	1370	136	51	90	3	0	249	462	44	11.6	0.9	0.70	--	1012	549
4-18-66				6.79	4.19	3.91	0.08		4.08	9.62	1.24	0.19					
				45	28	26	1		27	64	8	1				922	
2N/22W-32C 1 S	--	8.0	1400	136	47	90	3	0	234	453	44	8.1	1.0	0.76	--	954	533
4-20-66				6.79	3.87	3.91	0.08		3.84	9.43	1.24	0.13					
				46	26	27	1		26	64	8	1				898	
2N/22W-32Q 1 S	--	8.3	1579	177	56	110	5	--	275	546	63	17	0.9	0.67	--	1229	673
4-18-66				8.83	4.61	4.78	0.13		4.51	11.37	1.78	0.27					
				48	25	26	1		25	63	10	2				1111	
2N/22W-33N 2 S	68	7.0	3200	387	115	102	10	0	157	811	119	650.0	1.0	1.06	--	2640	1440
4-21-66				19.31	9.46	4.43	0.26		2.57	16.89	3.36	10.48					
				58	28	13	1		8	51	10	31				2273	
2N/23W- 5P 1 S	--	7.4	3694	352	109	279	9	0	216	479	899	5.5	1.1	0.72	--	2870	1327
4-10-66				17.56	8.96	12.13	0.23		3.54	9.97	25.35	0.09					
				45	23	31	1		9	26	65					2241	
2N/23W-13F 1 S	--	7.8	1536	158	45	160	5	0	395	493	73	3.3	0.7	0.68	--	1250	579
6-27-66				7.88	3.70	6.96	0.13		6.47	10.26	2.06	0.05					
				42	20	37	1		34	54	11					1133	
2N/23W-14K 1 S	67	8.1	1640	124	47	134	4	0	366	399	66	4.8	1.7	0.64	--	1080	503
4-11-66				6.19	3.87	5.83	0.10		6.00	8.31	1.86	0.08					
				39	24	36	1		37	51	11					961	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
SANTA CLARA-CALLEGUAS HYDRO UNIT U0300																	
OXNARD PLAIN HYDRO SUBUNIT U03A0																	
OXNARD HYDRO SUBAREA U03A1																	
2N/23W-14M 1 S	--	7.8	1579	140	53	143	5	0	283	533	69	1.2	0.7	0.68	--	1180	568
12-14-65				6.99	4.36	6.22	0.13		4.64	11.10	1.95	0.02					
				39	25	35	1		26	63	11					1085	
2N/23W-23G 1 S	--	8.5	1400	122	41	98	2	18	208	412	51	0.0	0.5	0.48	--	920	473
4- 8-66				6.09	3.37	4.26	0.05	0.60	3.41	8.58	1.44						
				44	24	31		4	24	61	10					847	
2N/23W-24F 1 S	68	7.7	2308	285	84	158	6	0	233	867	149	92.0	1.0	0.42	--	1910	1057
5-10-66				14.22	6.91	6.87	0.15		3.82	18.05	4.20	1.48					
				51	25	24	1		14	66	15	5				1757	
	--	7.5	2096	258	77	147	6	0	271	790	127	68	0.7	0.40	--	1795	961
6-27-66				12.87	6.33	6.39	0.15		4.44	16.45	3.58	1.10					
				50	25	25	1		17	64	14	4				1607	
2N/23W-25G 2 S	--	8.0	1650	146	44	125	5	0	256	500	67	2.9	0.4	0.62	--	896	546
4-13-66				7.29	3.62	5.44	0.13		4.20	10.41	1.89	0.05					
				44	22	33	1		25	63	11					1017	
2N/23W-25Q 1 S	--	8.1	1302	110	34	124	4	0	188	449	56	0.5	0.7	0.54	--	991	415
10-19-65				5.49	2.80	5.39	0.10		3.08	9.35	1.58	0.01					
				40	20	39	1		22	67	11					871	
	--	8.3	1510	124	42	120	3	13	215	454	62	3.5	0.8	0.54	--	976	482
4-13-66				6.19	3.45	5.22	0.08	0.43	3.52	9.45	1.75	0.06					
				41	23	35	1	3	23	62	12					929	
2N/23W-25R 2 S	--	8.0	1510	140	45	134	3	0	230	505	69	26.6	0.8	0.52	--	1092	535
4-13-66				6.99	3.70	5.83	0.08		3.77	10.51	1.95	0.43					
				42	22	35			23	63	12	3				1037	
2N/23W-35B 1 S	--	8.0	1270	98	38	122	4	0	159	442	56	0.0	0.3	0.51	--	950	401
10-19-65				4.89	3.13	5.30	0.10		2.61	9.20	1.58						
				36	23	39	1		19	69	12					839	
2N/23W-36C 4 S	--	7.7	1271	131	38	126	4	0	259	455	52	0.3	0.8	0.50	--	1005	484
7-19-66				6.54	3.13	5.48	0.10		4.25	9.47	1.47						
				43	21	36	1		28	62	10					935	
2N/23W-36A 1 S	--	7.9	1347	118	42	113	--	0	258	420	56	0.0	0.6	0.44	--		467
11- 8-65				5.89	3.45	4.91			4.23	8.74	1.58					922	
				41	24	34			29	60	11					877	
2N/23W-36A 2 S	--	8.2	1300	136	40	85	5	31	139	427	49	2.5	0.7	0.75	--	732	504
4-13-66				6.79	3.29	3.70	0.13	1.03	2.28	8.89	1.38	0.04					
				49	24	27	1	8	17	65	10					845	
2N/23W-36N 1 S	--	8.2	1273	127	39	104	4	14	217	403	49	1.0	0.8	0.58	--	938	478
4-18-66				6.34	3.21	4.52	0.10	0.47	3.56	8.39	1.38	0.02					
				45	23	32	1	3	26	61	10					849	
PLEASANT VALLEY HYDRO SUBAREA U03A2																	
1N/21W- 9M 1 S	--	8.1	833	44	23	97	4	--	221	170	47	2.0	0.5	0.38	--	540	205
10-22-65				2.20	1.89	4.22	0.10		3.62	3.54	1.33	0.03					
				26	22	50	1		42	42	16					496	
1N/21W-22B 2 S	--	8.4	1200	83	40	133	5	19	278	205	138	1.4	0.4	0.42	--	800	372
10-22-65				4.14	3.29	5.78	0.13	0.63	4.56	4.27	3.89	0.02					
				31	25	43	1	5	34	32	29					762	
1N/21W-26K 1 S	--	8.0	1852	100	96	148	2	0	207	331	289	58.0	0.4	0.18	--	1220	645
10-22-65				4.99	7.90	6.44	0.05		3.39	6.89	8.15	0.94					
				26	41	33			18	36	42	5				1126	
2N/20W-30C 1 S	70	8.1	2466	174	79	285	6	0	301	751	248	0.5	0.8	0.98	--	1825	760
10-27-65				8.68	6.50	12.39	0.15		4.93	15.64	6.99	0.01					
				31	23	45	1		18	57	25					1693	
2N/20W-33R 2 S	--	8.0	1560	78	94	94	1	0	357	42	307	1.5	0.3	0.28	--	961	581
10-27-65				3.89	7.73	4.09	0.03		5.85	0.87	8.66	0.02					
				25	49	26			38	6	56					794	
2N/21W-11A 1 S	--	8.4	920	89	29	46	4	25	225	133	43	34.0	0.6	0.33	--	592	341
10- 2-65				4.44	2.38	2.00	0.10	0.83	3.69	2.77	1.21	0.55					
				50	27	22	1	9	41	31	13	6				515	
2N/21W-19A 2 S	--	7.4	1752	164	71	125	--	0	303	586	84	9.0	0.7	0.80	--	1345	702
11- 5-65				8.18	5.84	5.44			4.97	12.20	2.37	0.15					
				42	30	28			25	62	12	1				1189	
2N/21W-23R 2 S	71	7.3	1700	165	40	120	5	0	242	404	120	85.0	0.3	0.43	--	1136	576
10-27-65				8.23	3.29	5.22	0.13		3.97	8.41	3.38	1.37					
				49	20	31	1		23	49	20	8				1059	

TABLE C-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER				PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER			
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
SANTA CLARA-CALLEGUAS HYDRO UNIT U0300																	
PLEASANT VALLEY HYDRO SUBAREA U03A2																	
2N/21W-23R 3 S	--	8.3	1230	96	33	122	4	2	228	327	86	1.0	0.5	0.43	--	852	375
10-27-65				4.79	2.71	5.30	0.10	0.07	3.74	6.81	2.43	0.02					
				37	21	41	1	1	29	52	19					784	
2N/21W-33A 1 S	--	7.3	2572	282	96	215	3	0	250	1051	183	6.0	0.9	0.66	--	2155	1099
10-20-65				14.07	7.90	9.35	0.08		4.10	21.88	5.16	0.10					
				45	25	30			13	70	17					1960	
2N/21W-35K 1 S	--	8.0	1971	110	56	239	7	0	237	490	219	2.5	0.5	0.69	--	1362	505
10-27-65				5.49	4.61	10.39	0.18		3.88	10.20	6.18	0.04					
				27	22	50	1		19	50	30					1241	
2N/21W-36N 4 S	--	7.7	1950	156	51	170	4	0	157	530	198	4.0	0.5	0.45	--	1276	599
10-27-65				7.78	4.19	7.39	0.10		2.57	11.03	5.58	0.06					
				40	22	38	1		13	57	29					1191	
SANTA PAULA HYDRO SUBUNIT U03B0																	
SANTA PAULA HYDRO SUBAREA U03B1																	
2N/21W-10Q 3 S	--	7.7	4950	600	218	360	6	0	315	1826	354	700.0	1.3	1.50	--	4290	2395
10- 2-65				29.94	17.93	15.65	0.15		5.16	38.02	9.98	11.29					
				47	28	25			8	59	15	18				4222	
2N/22W- 1M 1 S	68	7.8	1211	122	39	86	4	--	211	390	58	0.0	0.8	0.40	--	900	465
10- 7-65				6.09	3.21	3.74	0.10		3.46	8.12	1.64						
				46	24	28	1		26	61	12					804	
2N/22W- 3M 3 S	--	8.0	1165	84	41	102	4	--	142	392	53	1.0	0.8	0.51	--	835	378
11-10-65				4.19	3.37	4.43	0.10		2.33	8.16	1.49	0.02					
				35	28	37	1		19	68	12					748	
3N/20W- 3N 2 S	--	7.8	1496	155	66	99	--	--	296	489	52	40	0.8	0.56	--	1197	659
5-12-66				7.73	5.43	4.30			4.85	10.18	1.47	0.65					
				44	31	25			28	59	9	4				1048	
3N/21W- 9R 3 S	--	7.6	1181	127	34	89	3	0	296	329	40	0.5	0.9	0.48	--	747	457
10- 8-65				6.34	2.80	3.87	0.08		4.85	6.85	1.13	0.01					
				48	21	30	1		38	53	9					769	
3N/21W-15C 2 S	--	8.0	1601	190	56	92	3	0	303	537	71	19.0	0.7	0.59	--	1235	705
10- 9-65				9.48	4.61	4.00	0.08		4.97	11.18	2.00	0.31					
				52	25	22			27	61	11	2				1118	
3N/21W-16K 1 S	68	7.5	1887	223	65	123	4	0	358	646	93	4.0	0.7	0.68	--	1410	825
10-25-65				11.13	5.35	5.35	0.10		5.87	13.45	2.62	0.06					
				51	24	24			27	61	12					1335	
3N/21W-16K 2 S	--	7.6	2247	233	84	161	3	0	379	737	114	0.8	1.0	0.82	--	1679	928
10- 6-65				11.63	6.91	7.00	0.08		6.21	15.34	3.21	0.01					
				45	27	27			25	62	13					1521	
3N/21W-21B 1 S	--	7.8	2213	210	72	230	--	--	409	746	147	4	0.7	0.76	--	1818	821
5-12-66				10.48	5.92	10.00			6.70	15.53	4.15	0.06					
				40	22	38			25	59	16					1612	
	69	8.3	2071	177	72	196	5	0	254	697	146	2.6	0.7	1.02	--	1581	738
10-22-65				8.83	5.92	8.52	0.13		4.16	14.51	4.12	0.04					
				38	25	36	1		18	64	18					1422	
	--	7.3	2246	202	73	218	--	0	400	710	147	5.0	0.7	1.31	--		805
11- 4-65				10.08	6.00	9.48			6.56	14.78	4.15	0.08				1655	
				39	23	37			26	58	16					1554	
3N/21W-21E 1 S	66	8.1	1998	143	76	200	5	0	162	781	107	3.0	1.1	1.24	--	1500	670
10- 5-65				7.14	6.25	8.70	0.13		2.66	16.26	3.02	0.05					
				32	28	39	1		12	74	14					1397	
3N/21W-21F 1 S	68	7.7	2049	183	54	215	6	0	361	711	99	1.0	0.8	1.28	--	1500	679
10-22-65				9.13	4.44	9.35	0.15		5.92	14.80	2.79	0.02					
				40	19	41	1		25	63	12					1449	
3N/21W-29B 1 S	--	7.3	2596	249	78	272	--	--	506	754	236	--	0.7	1.24	--	2095	943
5-11-66				12.43	6.41	11.83			8.29	15.70	6.66						
	--	7.4	2380	201	77	240	--	0	485	571	256	0.0	0.7	1.41	--		819
11- 5-65				10.03	6.33	10.44			7.95	11.89	7.22					1705	
				37	24	39			29	44	27					1586	
3N/21W-31E 1 S	--	7.4	2594	292	101	250	--	--	394	1156	107	--	0.7	0.81	--	2300	1145
5-11-66				14.57	8.31	10.87			6.46	24.07	3.02						
3N/22W-11H 1 S	--	8.4	3536	230	133	478	7	37	531	1095	294	19.0	1.2	1.27	--	2788	1122
10- 6-65				11.48	10.94	20.78	0.18	1.23	8.70	22.80	8.29	0.31					
				26	25	48		3	21	55	20	1				2556	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
SANTA CLARA-CALLEGUAS HYDRO UNIT U0300																	
SANTA PAULA HYDRO SUBUNIT U03B0																	
SANTA PAULA HYDRO SUBAREA U03B1																	
3N/22W-23F 2 S	--	7.6	2019	166	70	206	9	0	474	596	103	1.0	0.4	0.55	--	1440	703
10- 6-65				8.28	5.76	8.96	0.23		7.77	12.41	2.90	0.02					
				36	25	39	1		34	54	13					1385	
3N/22W-35N 1 S	69	7.6	2270	299	86	138	5	0	290	967	95	0.5	0.8	0.52	--	1942	1100
10-21-65				14.92	7.07	6.00	0.13		4.75	20.13	2.68	0.01					
				53	25	21			17	73	10					1734	
SISAR HYDRO SUBAREA U03B2																	
4N/21W-18C 1 S	59	7.0	1048	127	36	29	2	0	264	207	64	0.6	0.4	0.04	--	678	465
10-14-65				6.34	2.96	1.26	0.05		4.33	4.31	1.80	0.01					
				60	28	12			41	41	17					596	
SESPE HYDRO SUBUNIT U03C0																	
FILLMORE HYDRO SUBAREA U03C1																	
3N/20W- 3N 2 S	--	7.9	1480	150	60	89	--	0	285	492	48	0.0	0.8	0.63	--		621
11-10-65				7.49	4.93	3.87			4.67	10.24	1.35					1167	
				46	30	24			29	63	8					981	
3N/20W- 5C 2 S	75	8.0	1192	133	45	68	7	0	243	361	31	60.0	0.6	0.33	--	860	517
10- 1-65				6.64	3.70	2.96	0.18		3.98	7.52	0.87	0.97					
				49	27	22	1		30	56	7	7				825	
3N/21W-12H 1 S	--	7.3	1187	115	42	84	--	--	254	360	40	12	0.9	0.57	--	907	460
6- 6-66				5.74	3.45	3.65			4.16	7.50	1.13	0.19					
				45	27	28			32	58	9	1				779	
3N/20W- 3N 2 S	--	7.9	1480	150	60	89	--	0	285	492	48	0.0	0.8	0.63	--		621
11-10-65				7.49	4.93	3.87			4.67	10.24	1.35					1167	
				46	30	24			29	63	8					981	
3N/20W- 5C 2 S	75	8.0	1192	133	45	68	7	0	243	361	31	60.0	0.6	0.33	--	860	517
10- 1-65				6.64	3.70	2.96	0.18		3.98	7.52	0.87	0.97					
				49	27	22	1		30	56	7	7				825	
3N/21W-12H 1 S	--	7.3	1187	115	42	84	--	--	254	360	40	12	0.9	0.57	--	907	460
6- 6-66				5.74	3.45	3.65			4.16	7.50	1.13	0.19					
				45	27	28			32	58	9	1				779	
3N/21W-12D 1 S	73	7.8	2770	289	118	238	5	0	259	1172	205	35.0	0.9	0.50	--	2270	1207
10- 5-65				14.42	9.70	10.35	0.13		4.25	24.40	5.78	0.56					
				42	28	30			12	70	17	2				2191	
3N/21W-12D 2 S	--	7.8	4032	402	148	440	8	0	195	1867	298	68.0	0.9	0.58	--	3450	1613
10- 5-65				20.06	12.17	19.13	0.20		3.20	38.87	8.40	1.10					
				39	24	37			6	75	16	2				3328	
3N/21W-12H 1 S	--	7.4	1172	114	36	84	--	0	244	339	39	12.0	0.9	0.71	--		433
12- 1-65				5.69	2.96	3.65			4.00	7.06	1.10	0.19				832	
				46	24	30			32	57	9	2				746	
4N/20W-12Q 1 S	68	7.9	1373	130	42	102	2	0	225	331	101	61.0	0.9	2.20	--	930	497
10- 1-65				6.49	3.45	4.43	0.05		3.69	6.89	2.85	0.98					
				45	24	31			26	48	20	7				883	
4N/20W-23N 1 S	70	8.3	686	78	17	37	1	9	183	106	35	34.0	0.8	0.24	--	486	265
10- 1-65				3.89	1.40	1.61	0.03	0.30	3.00	2.21	0.99	0.55					
				56	20	23		4	43	31	14	8				408	
4N/20W-24D 1 S	--	8.0	1320	121	39	89	4	0	190	310	120	30.0	0.8	1.29	--	868	463
10- 1-65				6.04	3.21	3.87	0.10		3.11	6.45	3.38	0.48					
				46	24	29	1		23	48	25	4				808	
4N/20W-25C 1 S	--	8.8	735	13	17	110	--	14	46	211	45	0	0.3	0.46	--	456	103
5-31-66				0.65	1.40	4.78		0.47	0.75	4.39	1.27						
				10	20	70		7	11	64	18					433	
	--	7.3	1390	146	55	72	--	0	319	375	62	16.0	0.8	0.84	--		591
11- 5-65				7.29	4.52	3.13			5.23	7.81	1.75	0.26				1017	
				49	30	21			35	52	12	2				884	
4N/20W-25J 1 S	--	8.0	1745	147	97	105	4	--	182	657	77	55.0	0.9	0.80	--	1380	767
10-25-65				7.34	7.98	4.57	0.10		2.98	13.68	2.17	0.89					
				37	40	23	1		15	69	11	5				1233	
4N/20W-34R 1 S	--	7.8	1274	135	43	89	--	--	293	363	53	21	0.7	0.76	--	997	514
5-12-66				6.74	3.54	3.87			4.80	7.56	1.49	0.34					
				48	25	27			34	53	11	2				849	
	--	7.9	1413	144	48	89	--	0	308	379	60	36.0	0.7	0.65	--		557
11-10-65				7.19	3.95	3.87			5.05	7.89	1.69	0.58				1017	
				48	26	26			33	52	11	4				909	
4N/20W-36P 2 S	--	7.5	1269	130	49	84	5	--	262	419	31	12.5	1.2	0.61	--	950	526
10-21-65				6.49	4.03	3.65	0.13		4.29	8.72	0.87	0.20					
				45	28	26	1		30	62	6	1				861	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
SANTA CLARA-CALLEGUAS HYDRO UNIT U0300																	
PIRU HYDRO SUBUNIT U03D0																	
PIRU HYDRO SUBAREA U03D1																	
4N/18W- 3Q 2 S	72	7.9	1802	131	74	187	5	0	617	403	70	1.5	0.9	1.20	--	1196	632
10-14-65				6.54	6.09	8.13	0.13		10.11	8.39	1.97	0.02					
				31	29	39	1		49	41	10					1177	
4N/18W-19R 1 S	--	7.6	1636	169	63	114	--	--	283	600	48	7	0.9	1.27	--	1284	681
5-13-66				8.43	5.18	4.96			4.64	12.49	1.35	0.11					
				45	28	27			25	67	7	1				1142	
4N/18W-19P 3 S	66	8.1	1552	154	70	107	4	0	264	556	52	9.0	1.0	1.09	--	1206	673
10-15-65				7.68	5.76	4.65	0.10		4.33	11.58	1.47	0.15					
				42	32	26	1		25	66	8	1				1084	
4N/18W-19R 1 S	--	7.8	1662	160	64	113	--	0	288	550	48	19.0	0.9	1.47	--		663
11-10-65				7.98	5.26	4.91			4.72	11.45	1.35	0.31				1302	
				44	29	27			26	64	8	2				1098	
4N/18W-27B 1 S	--	7.5	3166	293	143	348	--	--	421	1430	135	51	1.1	0.95	--	2821	1320
5-13-66				14.62	11.76	15.13			6.90	29.77	3.81	0.82					
				35	28	36			17	72	9	2				2609	
	66	7.9	3756	343	176	345	7	0	402	1604	162	70.0	0	1.18	--	3207	1581
10-14-65				17.12	14.47	15.00	0.18		6.59	33.40	4.57	1.13					
				37	31	32			14	73	10	2				2906	
	--	7.8	3530	327	151	370	--	0	457	1512	159	63.0	1.0	1.10	--		1438
11- 8-65				16.32	12.42	16.09			7.49	31.48	4.48	1.02				3120	
				36	28	36			17	71	10	2				2809	
4N/19W-25M 2 S	--	7.8	1597	157	69	100	--	--	250	564	49	40	0.9	0.74	--	1229	676
5-13-66				7.83	5.67	4.35			4.10	11.74	1.38	0.65					
				44	32	24			23	66	8	4				1104	
4N/19W-25C 2 S	62	8.2	1690	175	81	107	4	0	269	632	65	14.0	1.1	1.03	--	1351	770
10-19-65				8.73	6.66	4.65	0.10		4.41	13.16	1.83	0.23					
				43	33	23			22	67	9	1				1212	
4N/19W-25M 2 S	--	7.4	1728	176	78	100	--	0	255	636	54	45.0	0.8	1.25	--		760
12- 2-65				8.78	6.41	4.35			4.18	13.24	1.52	0.73				1327	
				45	33	22			21	67	8	4				1216	
4N/19W-33M 2 S	--	7.8	1302	126	57	89	--	--	268	437	33	18	0.9	0.47	--	1028	549
5-12-66				6.29	4.69	3.87			4.39	9.10	0.93	0.29					
				42	32	26			30	62	6	2				893	
4N/19W-33D 4 S	58	8.1	1377	144	60	86	4	0	253	481	35	9.0	1.0	0.76	--	1055	606
10-20-65				7.19	4.93	3.74	0.10		4.15	10.01	0.99	0.15					
				45	31	23	1		27	65	6	1				945	
4N/19W-33J 1 S	--	7.7	3728	400	174	257	9	0	404	1486	153	220.0	0.9	1.86	--	3114	1715
10-20-65				19.96	14.31	11.17	0.23		6.62	30.94	4.31	3.55					
				44	31	24	1		15	68	9	8				2900	
4N/19W-33M 2 S	--	7.7	2168	236	96	113	--	0	305	687	144	59.0	0.8	1.07	--		985
11- 9-65				11.78	7.90	4.91			5.00	14.30	4.06	0.95				1848	
				48	32	20			21	59	17	4				1487	
5N/18W-15P 1 S	--	8.0	1330	116	48	108	--	0	253	430	58	0.0	1.3	2.16	--	983	487
11- 8-65				5.79	3.95	4.70			4.15	8.95	1.64						
				40	27	33			28	61	11					888	
UPPER PIRU HYDRO SUBAREA U03D2																	
6N/17W- 7Q 1 S	--	8.3	4808	7	3	1140	7	25	1540	18	859	11.0	4.5	3.10	--	2820	30
10-14-65				0.35	0.25	49.57	0.18	0.83	25.24	0.37	24.22	0.18					
				1		98		2	50	1	48					2835	
	--	8.2	4900	11	0	1120	4	115	1330	33	803	5.0	1.1	3.45	--	3416	28
1-14-66				0.55		48.70	0.10	3.83	21.80	0.69	22.64	0.08					
				1		99		8	44	1	46					2749	
6N/17W-21C 1 S	--	8.5	1769	6	2	383	4	14	403	376	84	1.0	4.0	1.43	--	1110	23
10-29-65				0.30	0.16	16.65	0.10	0.47	6.61	7.83	2.37	0.02					
				2	1	97	1	3	38	45	14					1074	
6N/18W-12A 1 S	--	12.0	18212	2208	13	1240	513	229	--	16	5507	30.0	1.2	0.70	--	11380	5567
10-14-65				110.18	1.07	53.92	13.12	7.63		0.33	155.30	0.48					

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10⁶	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
SANTA CLARA-CALLEGUAS HYDRO UNIT U0300																	
HUNGRY VALLEY HYDRO SUBAREA U03D3																	
8N/18W- 7NS1 S	57	7.8	394	44	7	29	1	0	151	26	9	33	3.5	0	--	240	139
3- 6-66				2.20	0.58	1.26	0.03		2.47	0.54	0.25	0.53					
				54	14	31	1		65	14	7	14				227	
8N/18W-13BS1 S	55	7.2	180	7	2	25	1	0	32	12	14	23	0.9	0.02	--	160	26
3- 7-66				0.35	0.16	1.09	0.03		0.52	0.25	0.39	0.37					
				21	10	67	2		34	16	25	24				101	
8N/19W-12ES1 S	74	8.3	455	54	12	26	2	2	190	47	7	15	3.0	0.02	--	285	184
3- 6-66				2.69	0.99	1.13	0.05	0.07	3.11	0.98	0.20	0.24					
				55	20	23	1	2	68	21	4	5				261	
STAUFFER HYDRO SUBAREA U03D4																	
8N/21W-24L 1 S	--	9.1	1692	2	1	382	2	50	444	132	182	2.2	5.0	2.48	--	950	9
3-28-66				0.10	0.08	16.61	0.05	1.67	7.28	2.75	5.13	0.04					
				1		99		10	43	16	30					979	
EASTERN HYDRO SUBAREA U03E1																	
4N/16W-34A 3 S	74	8.4	665	61	14	60	2	3	206	112	30	2.2	--	0.20	--	395	210
9-24-66				3.04	1.15	2.61	0.05	0.10	3.38	2.33	0.85	0.04					
				44	17	38	1	1	50	35	13	1				386	
5N/16W- 7Q 1 S	61	8.0	1412	118	56	114	3	0	252	386	109	3.0	1.2	0.50	--	1020	525
10-14-65				5.89	4.61	4.96	0.08		4.13	8.04	3.07	0.05					
				38	30	32	1		27	53	20					915	
5N/16W-19F 2 S	66	7.5	1353	125	51	101	4	0	270	368	91	7.0	1.2	0.52	--	946	522
10-26-65				6.24	4.19	4.39	0.10		4.43	7.66	2.57	0.11					
				42	28	29	1		30	52	17	1				881	
	--	7.6	1220	85	44	103	2	0	248	299	73	11.0	1.1	0.58	--	776	393
4- 4-66				4.24	3.62	4.48	0.05		4.06	6.23	2.06	0.18					
				34	29	36			32	50	16	1				741	
WEST LAS POSAS HYDRO SUBAREA U03F1																	
2N/21W- 8G 1 S	--	7.6	936	67	27	100	3	0	310	137	65	14.0	0.6	0.24	--	570	278
10-15-65				3.34	2.22	4.35	0.08		5.08	2.85	1.83	0.23					
				33	22	44	1		51	29	18	2				566	
2N/21W-10Q 3 S	--	7.8	1032	106	35	70	4	0	295	259	37	1.0	0.4	0.14	--	704	409
10-22-65				5.29	2.88	3.04	0.10		4.84	5.39	1.04	0.02					
				47	25	27	1		43	48	9					658	
EAST LAS POSAS HYDRO SUBAREA U03F2																	
2N/20W- 9R 1 S	--	8.0	1582	130	54	145	5	0	249	456	129	1.0	0.6	0.52	--	1075	547
10-21-65				6.49	4.44	6.30	0.13		4.08	9.49	3.64	0.02					
				37	26	36	1		24	55	21					1044	
2N/20W-17J 1 S	--	8.0	1126	97	33	91	4	--	175	319	73	2.0	0.5	0.32	--	812	378
10-29-65				4.84	2.71	3.96	0.10		2.87	6.64	2.06	0.03					
				42	23	34	1		25	57	18					706	
3N/19W-29F 2 S	--	7.1	307	23	8	26	1	--	103	8	23	26.0	0.4	0.05	--	234	91
10-21-65				1.15	0.66	1.13	0.03		1.69	0.17	0.65	0.42					
				39	22	38	1		58	6	22	14				166	
TIERRA REJADA VALLEY HYDR SUBAREA U03F5																	
2N/19W-12M 2 S	--	8.1	1100	59	70	45	3	0	245	233	59	5.0	0.4	0.20	--	712	435
11- 8-65				2.94	5.76	1.96	0.08		4.02	4.85	1.66	0.08					
				27	54	18	1		38	46	16	1				595	
SIMI VALLEY HYDRO SUBAREA U03F7																	
2N/17W- 8J 6 S	--	8.3	713	42	18	79	1	0	278	48	55	0.5	--	0.70	--	388	179
9-24-66				2.10	1.48	3.43	0.03		4.56	1.00	1.55	0.01					
				30	21	49			64	14	22					381	
2N/17W- 8J 3 S	--	8.2	916	40	40	97	1	--	270	107	99	1.6	0.7	0.43	--	527	265
11- 9-65				2.00	3.29	4.22	0.03		4.43	2.23	2.79	0.03					
				21	34	44			47	24	29					519	
2N/17W- 9D 3 S	--	7.8	1470	121	55	126	4	0	338	362	91	1.0	0.9	0.79	--	1003	528
11-10-65				6.04	4.52	5.48	0.10		5.54	7.54	2.57	0.02					
				37	28	34	1		35	48	16					928	
2N/17W-15D 2 S	--	7.7	2000	158	78	105	3	0	522	389	76	5.0	0.9	0.38	--	1090	715
11-10-65				7.88	6.41	4.57	0.08		8.56	8.10	2.14	0.08					
				42	34	24			45	43	11					1072	
2N/18W- 1M 3 S	68	7.6	2901	265	132	252	7	--	423	1052	215	6.5	1.5	2.00	--	2437	1205
11-12-65				13.22	10.86	10.96	0.18		6.93	21.90	6.06	0.10					
				38	31	31	1		20	63	17					2141	
2N/18W- 7F 3 S	--	8.1	1683	158	122	44	1	0	278	537	112	26.0	0.5	0.15	--	1310	896
11- 2-65				7.88	10.03	1.91	0.03		4.56	11.18	3.16	0.42					
				40	51	10			24	58	16	2				1137	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
SIMI VALLEY HYDRO SUBAREA U03F7																	
2N/18W-11R 2 S	68	7.7	2209	218	82	184	5	--	312	800	123	28.0	1.3	1.16	--	1760	882
11-12-65				10.88	6.74	8.00	0.13		5.11	16.66	3.47	0.45					
				42	26	31	1		20	65	14	2				1596	
2N/18W-15L 1 S	--	7.8	930	144	16	40	3	0	203	283	39	0.0	2.3	0.04	--	660	426
11- 9-65				7.19	1.32	1.74	0.08		3.33	5.89	1.10						
				70	13	17	1		32	57	11					627	
2N/18W-18G 1 S	--	7.9	529	44	22	33	1	0	222	30	38	5.0	0.7	0.04	--	280	201
11- 8-65				2.20	1.81	1.43	0.03		3.64	0.62	1.07	0.08					
				40	33	26	1		67	11	20	1				283	
MALIBU CREEK HYDRO SUBUNIT U04B0																	
RUSSELL VALLEY HYDRO SUBAREA U04B5																	
1N/19W-24M 2 S	--	8.6	1675	17	13	361	5	14	558	312	53	8.0	0.6	0.15	--	1104	96
10- 6-65				0.85	1.07	15.70	0.13	0.47	9.15	6.50	1.49	0.13					
				5	6	88	1	3	52	37	8	1				1058	
1N/19W-26C 1 S	66	8.3	716	49	34	51	2	7	242	122	28	1.5	0.3	0.11	--	468	263
10- 6-65				2.45	2.80	2.22	0.05	0.23	3.97	2.54	0.79	0.02					
				33	37	30	1	3	53	34	10					414	
COASTAL PL OF LA CO HYDRO SUBUNIT U05A0																	
WEST COAST HYDRO SUBAREA U05A2																	
2S/14W-19K 2 S	72	8.0	1100	80	34	115	8	0	409	105	106	0	--	--	--	1400	625
11- 1-65				7.39	5.10	7.91	0.13		8.42	4.31	7.67	0.10					
				36	25	39	1		41	21	37					1135	
	70	7.8	1880	148	62	182	5	0	514	207	272	6	--	--	--	857	340
11- 1-65				3.99	2.80	5.00	0.20		6.70	2.19	2.99						
				33	23	42	2		56	18	25					649	
	73	8.1	1200	150	62	180	6	0	500	205	277	0	--	--	--	1380	630
2- 8-66				7.49	5.10	7.83	0.15		8.20	4.27	7.81						
				36	25	38	1		40	21	39					1126	
	70	8.1	1850	93	38	120	8	0	421	121	130	0	--	--	--	931	389
2- 8-66				4.64	3.13	5.22	0.20		6.90	2.52	3.67						
				35	24	40	2		53	19	28					717	
2S/15W-34F 1 S	--	8.9	1530	21	26	342	18	63	876	23	62	0	--	--	--	1430	160
3- 3-66				1.05	2.14	14.87	0.46	2.10	14.36	0.48	1.75						
				6	12	80	2	11	77	3	9					986	
3S/13W-29G 3 S	67	7.7	1095	99	25	88	4	0	208	99	190	1.0	0.4	0.14	--	670	350
10-25-65				4.94	2.06	3.83	0.10		3.41	2.06	5.36	0.02					
				45	19	35	1		31	19	49					609	
3S/13W-31M 1 S	77	8.4	534	54	11	44	3	7	207	58	22	1.0	0.4	0.12	--	310	180
10-25-65				2.69	0.90	1.91	0.08	0.23	3.39	1.21	0.62	0.02					
				48	16	34	1	4	62	22	11					302	
3S/13W-32E 2 S	--	8.3	472	47	9	40	3	7	214	24	23	0.0	0.4	0.12	--	260	155
10-25-65				2.35	0.74	1.74	0.08	0.23	3.51	0.50	0.65						
				48	15	35	2	5	72	10	13					259	
3S/14W- 3A 1 S	--	7.0	30500	1180	848	5550	38	0	138	1600	11900	0	--	--	--	21300	6436
4-29-66				58.88	69.74	241.31	0.97		2.26	33.31	335.58						
				16	19	65			1	9	90					21184	
	--	8.0	8420	227	194	1370	26	0	666	270	2560	0	--	--	--	5320	1365
5- 2-66				11.33	15.95	59.57	0.66		10.92	5.62	72.19						
				13	18	68	1		12	6	81					4974	
3S/14W- 3K 1 S	75	8.3	561	49	15	50	4	7	249	14	43	3.0	0.4	0.10	--	350	184
10-28-65				2.45	1.23	2.17	0.10	0.23	4.08	0.29	1.21	0.05					
				41	21	36	2	4	70	5	.21	1				308	
3S/14W- 7K 4 S	--	7.7	2060	168	60	180	10	0	409	146	404	0	--	--	--	1380	666
4-29-66				8.38	4.93	7.83	0.26		6.70	3.04	11.39						
				39	23	37	1		32	14	54					1169	
3S/14W- 7Q 4 S	--	7.8	2430	212	61	200	8	0	445	88	540	0	--	--	47	1560	781
1-10-66				10.58	5.02	8.70	0.20		7.29	1.83	15.23						
				43	20	36	1		30	8	63					1375	
	--	8.0	2370	200	61	200	9	0	463	79	516	0	--	--	68	1530	751
1-10-66				9.98	5.02	8.70	0.23		7.59	1.64	14.55						
				42	21	36	1		32	7	61					1361	
	--	7.9	1570	123	38	152	8	0	400	45	294	0	--	--	--	1060	464
4- 5-66				6.14	3.13	6.61	0.20		6.56	0.94	8.29						
				38	19	41	1		42	6	53					857	
	--	8.0	796	43	20	105	9	0	392	3	76	0	--	--	--	648	190
4-18-66				2.15	1.64	4.57	0.23		6.42	0.06	2.14						
				25	19	53	3		74	1	25					449	

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SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARD-NESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 WEST COAST HYDRO SUBAREA U05A2																	
3S/14W-13Q 5 S	69	8.0	2123	174	69	168	3	0	427	136	331	163.0	0.2	0.36	--	1285	718
10-29-65				8.68	5.67	7.30	0.08		7.00	2.83	9.33	2.63					
				40	26	34			32	13	43	12				1254	
3S/14W-18N 5 S	73	8.0	1835	153	56	140	8	0	282	123	394	10.0	0.6	0.16	--	1170	612
10-25-65				7.63	4.61	6.09	0.20		4.62	2.56	11.11	0.16					
				41	25	33	1		25	14	60	1				1023	
3S/14W-22K 1 S	73	8.4	531	49	13	47	4	10	221	39	29	2.0	0.5	0.08	--	330	176
10-29-65				2.45	1.07	2.04	0.10	0.33	3.62	0.81	0.82	0.03					
				43	19	36	2	6	65	14	15	1				302	
3S/14W-22L 1 S	75	7.9	630	52	17	50	4	0	242	42	40	4.0	0.4	0.25	--	340	200
11- 2-65				2.59	1.40	2.17	0.10		3.97	0.87	1.13	0.06					
				41	22	35	2		66	14	19	1				329	
3S/14W-22R 2 S	71	7.8	1621	146	41	100	6	0	188	46	392	0.0	0.3	0.10	--	980	533
10-29-65				7.29	3.37	4.35	0.15		3.08	0.96	11.05						
				48	22	29	1		20	6	73					824	
3S/14W-25K 4 S	71	8.0	688	70	15	49	3	0	211	53	81	1.0	0.5	0.08	--	420	236
10-29-65				3.49	1.23	2.13	0.08		3.46	1.10	2.28	0.02					
				50	18	31	1		50	16	33					376	
3S/14W-28N 5 S	--	8.7	523	9	3	103	3	15	172	0	68	0	--	--	--	374	35
3- 7-66				0.45	0.25	4.48	0.08	0.50	2.82		1.92						
				9	5	85	2	10	54		37					286	
3S/14W-29D 3 S	--	7.8	1267	66	23	172	6	0	147	335	121	1.0	0.6	0.16	--	795	259
10-28-65				3.29	1.89	7.48	0.15		2.41	6.97	3.41	0.02					
				26	15	58	1		19	54	27					797	
3S/14W-30D 2 S	--	8.4	1850	74	27	286	7	0	170	331	322	0	--	--	--	1220	296
3-16-66				3.69	2.22	12.44	0.18		2.79	6.89	9.08						
				20	12	67	1		15	37	48					1131	
3S/14W-30E 1 S	--	7.9	973	69	16	110	5	0	131	116	136	70.0	--	--	--	653	238
4-11-66				3.44	1.32	4.78	0.13		2.15	2.42	3.84	1.13					
				36	14	49	1		23	25	40	12				586	
3S/14W-30F 2 S	--	7.9	924	52	12	127	4	0	183	77	152	15.0	--	--	--	622	179
4-11-66				2.59	0.99	5.52	0.10		3.00	1.60	4.29	0.24					
				28	11	60	1		33	18	47	3				529	
3S/14W-30G 1 S	--	7.7	2445	230	64	154	12	0	233	108	626	0.0	0.4	0.10	--	1500	838
10-28-65				11.48	5.26	6.70	0.31		3.82	2.25	17.65						
				48	22	28	1		16	9	74					1309	
3S/14W-30H 2 S	--	8.1	1199	102	29	88	7	0	231	46	238	1.0	0.3	0.10	--	770	374
10-28-65				5.09	2.38	3.83	0.18		3.79	0.96	6.71	0.02					
				44	21	33	2		33	8	58					625	
3S/14W-30M 2 S	--	7.9	1370	46	14	230	5	0	171	297	168	8.0	--	--	--	939	173
4-28-66				2.30	1.15	10.00	0.13		2.80	6.18	4.74	0.13					
				17	8	74	1		20	45	34	1				852	
3S/14W-30M 3 S	--	7.5	1470	79	23	198	6	0	175	256	218	33.0	--	--	--	988	292
4-28-66				3.94	1.89	8.61	0.15		2.87	5.33	6.15	0.53					
				27	13	59	1		19	36	41	4				899	
3S/14W-30N 1 S	--	8.2	1220	7	3	252	2	0	154	300	107	0	--	--	--	825	30
5- 4-66				0.35	0.25	10.96	0.05		2.52	6.25	3.02						
				3	2	94			21	53	26					747	
3S/14W-31A 4 S	--	7.7	3270	213	59	392	13	0	187	302	826	0	--	--	--	1990	775
5- 3-66				10.63	4.85	17.04	0.33		3.06	6.29	23.29						
				32	15	52	1		9	19	71					1897	
3S/14W-31D 1 S	--	8.1	1500	17	8	295	4	0	156	318	195	0	--	--	--	993	76
4-27-66				0.85	0.66	12.83	0.10		2.56	6.62	5.50						
				6	5	89	1		17	45	37					914	
3S/14W-31E 1 S	--	7.8	4810	450	130	320	16	0	238	160	1420	0	--	--	--	2740	1659
1- 6-66				22.46	10.69	13.91	0.41		3.90	3.33	40.04						
				47	23	29	1		8	7	85					2613	
3S/14W-31E 2 S	--	8.0	3970	352	118	270	17	0	240	127	1140	0	--	--	--	2270	1364
11- 3-65				17.56	9.70	11.74	0.43		3.93	2.64	32.15						
				45	25	30	1		10	7	83					2142	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 WEST COAST HYDRO SUBAREA U05A2																	
3S/14W-31L 4 S	--	7.7	4850	370	154	383	19	0	229	160	1450	0	--	--	--	2770	1557
11- 3-65				18.46	12.66	16.65	0.49		3.75	3.33	40.89						
				38	26	35	1		8	7	85					2649	
	--	7.5	13700	761	390	1900	31	0	223	531	4860	0	--	--	--	8700	3505
12- 6-65				37.97	32.07	82.61	0.79		3.65	11.06	137.05						
				25	21	54	1		2	7	90					8583	
	--	7.8	5000	408	159	415	20	0	217	178	1550	0	--	--	--	2950	1673
2-10-66				20.36	13.08	18.04	0.51		3.56	3.71	43.71						
				39	25	35	1		7	7	86					2837	
3S/14W-36H 3 S	--	7.6	17000	831	404	2640	36	0	209	852	5960	0	--	--	--	10900	3737
11- 2-65				41.47	33.22	114.79	0.92		3.43	17.74	168.07						
				22	17	60			2	9	89					10826	
3S/15W- 3H 2 S	--	8.7	1190	35	18	235	16	65	627	13	50	0	--	--	--	1060	162
3- 3-66				1.75	1.48	10.22	0.41	2.17	10.28	0.27	1.41						
				13	11	74	3	15	73	2	10					740	
3S/15W-11M 5 S	--	8.1	5920	76	98	1075	13	0	268	426	1580	64.0	--	--	--	3600	593
10-14-65				3.79	8.06	46.74	0.33		4.39	8.87	44.56	1.03					
				6	14	79	1		7	15	76	2				3464	
3S/15W-11M 7 S	--	7.9	13300	312	264	2350	18	0	273	708	4330	0	--	--	--	8300	1865
10-14-65				15.57	21.71	102.18	0.46		4.47	14.74	122.11						
				11	16	73			3	10	86					8116	
3S/15W-11M12 S	--	7.5	21300	768	563	3520	68	0	206	1090	7640	52.0	--	--	--	13900	4234
10-18-65				38.32	46.30	153.05	1.74		3.38	22.69	215.45	0.84					
				16	19	64	1		1	9	89					13802	
3S/15W-11M15 S	--	7.9	27200	536	699	5375	70	0	228	1500	10100	0	--	--	--	18500	4215
10-18-65				26.75	57.49	233.71	1.79		3.74	31.23	284.82						
				8	18	73	1		1	10	89					18392	
3S/15W-11Q 1 S	--	4.1	8680	562	196	955	22	0	0	16	3040	0	--	--	--	4790	2210
4- 1-66				28.04	16.12	41.52	0.56			0.33	85.73						
				33	19	48	1				00					4791	
	--	7.8	5550	304	123	684	10	0	277	158	1670	0	--	--	--	3230	1266
4- 6-66				15.17	10.12	29.74	0.26		4.54	3.29	47.09						
				27	18	54			8	6	86					3085	
3S/15W-12H 2 S	--	7.9	1600	111	47	137	7	0	292	4	370	0	--	--	21	969	471
2- 8-66				5.54	3.87	5.96	0.18		4.79	0.08	10.43						
				36	25	38	1		31	1	68					841	
	--	8.1	1100	76	32	110	5	0	337	9	200	0	--	--	--	769	321
5- 5-66				3.79	2.63	4.78	0.13		5.52	0.19	5.64						
				33	23	42	1		49	2	50					598	
3S/15W-12H 3 S	--	7.1	5480	458	174	428	14	0	286	77	1780	0	--	--	25	3220	1859
2- 9-66				22.85	14.31	18.61	0.36		4.69	1.60	50.20						
				41	25	33	1		8	3	89					3097	
3S/15W-13P 1 S	--	7.8	1780	156	45	140	6	0	287	24	435	0	--	--	33	1090	574
1- 6-66				7.78	3.70	6.09	0.15		4.70	0.50	12.27						
				44	21	34	1		27	3	70					980	
3S/15W-13P 1 S	--	8.0	1390	113	36	106	5	0	272	20	292	0	--	--	--	844	430
1-26-66				5.64	2.96	4.61	0.13		4.46	0.42	8.23						
				42	22	35	1		34	3	63					706	
3S/15W-13H 4 S	--	8.3	787	32	15	133	11	0	466	0	40	0	--	--	35	697	142
1- 5-66				1.60	1.23	5.78	0.28		7.64		1.13						
				18	14	65	3		87		13					495	
	--	8.2	832	33	15	128	10	0	469	0	37	0	--	--	--	693	144
1-25-66				1.65	1.23	5.57	0.26		7.69		1.04						
				19	14	64	3		88		12					454	
3S/15W-13H 5 S	--	8.1	1240	117	35	96	8	0	371	65	193	0	--	--	36	884	436
1- 5-66				5.84	2.88	4.17	0.20		6.08	1.35	5.44						
				45	22	32	2		47	10	42					732	
	--	8.2	1220	109	35	91	7	0	370	53	180	0	--	--	--	845	416
1-25-66				5.44	2.88	3.96	0.18		6.06	1.10	5.08						
				44	23	32	1		50	9	42					657	
3S/15W-13H 6 S	--	7.9	1940	202	56	133	8	0	325	237	357	0	--	--	35	1320	735
1- 5-66				10.08	4.61	5.78	0.20		5.33	4.93	10.07						
				49	22	28	1		26	24	50					1188	
	--	8.0	1930	192	57	125	7	0	334	224	338	0	--	--	--	1280	714
1-25-66				9.58	4.69	5.44	0.18		5.47	4.66	9.53						
				48	24	27	1		28	24	48					1107	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 WEST COAST HYDRO SUBAREA U05A2																	
3S/15W-13H 7 S	--	7.6	5250	465	133	486	12	0	405	336	1460	0	--	--	33	3300	1708
1- 6-66				23.20	10.94	21.13	0.31		6.64	7.00	41.17						
				42	20	38	1		12	13	75					3124	
	--	7.6	5290	452	128	490	11	0	389	341	1430	0	--	--	--	3240	1655
1-25-66				22.55	10.53	21.31	0.28		6.38	7.10	40.33						
				41	19	39	1		12	13	75					3043	
3S/15W-13R 7 S	--	7.8	3120	348	118	186	18	0	356	533	645	0	--	--	35	2210	1355
1- 4-66				17.37	9.70	8.09	0.46		5.83	11.10	18.19						
				49	27	23	1		17	32	52					2058	
	--	7.8	3210	344	122	178	18	0	354	543	630	0	--	--	--	2190	1361
1-24-66				17.17	10.03	7.74	0.46		5.80	11.31	17.77						
				49	28	22	1		17	32	51					2009	
3S/15W-13R 8 S	--	7.9	822	67	22	79	7	0	357	0	98	0	--	--	35	630	258
1- 4-66				3.34	1.81	3.43	0.18		5.85		2.76						
				38	21	39	2		68		32					484	
	--	8.0	853	66	22	79	6	0	358	0	95	0	--	--	--	626	255
1-24-66				3.29	1.81	3.43	0.15		5.87		2.68						
				38	21	40	2		69		31					444	
3S/15W-13R 9 S	--	7.1	9670	664	253	1200	11	0	486	800	2940	0	--	--	32	6350	2699
1- 4-66				33.13	20.81	52.18	0.28		7.97	16.66	82.91						
				31	20	49			7	15	77					6139	
	--	7.4	10400	683	258	1280	16	0	492	836	3040	0	--	--	--	6600	2767
1-24-66				34.08	21.22	55.65	0.41		8.06	17.41	85.73						
				31	19	50			7	16	77					6355	
3S/15W-24P 2 S	--	8.1	1390	108	31	147	5	0	212	252	183	28.0	--	--	--	966	397
2-15-66				5.39	2.55	6.39	0.13		3.47	5.25	5.16	0.45					
				37	18	44	1		24	37	36	3				858	
3S/15W-25B 2 S	--	8.4	1530	10	5	315	4	0	167	321	193	0	--	--	--	1020	46
2-24-66				0.50	0.41	13.70	0.10		2.74	6.68	5.44						
				3	3	93	1		18	45	37					930	
3S/15W-25B 3 S	--	8.1	1170	18	30	186	11	0	145	314	103	0	--	--	--	809	169
2-15-66				0.90	2.47	8.09	0.28		2.38	6.54	2.90						
				8	21	69	2		20	55	25					733	
3S/15W-25B 4 S	--	8.3	5590	17	41	1160	27	0	158	507	1510	0	--	--	--	3420	211
3-15-66				0.85	3.37	50.44	0.69		2.59	10.56	42.58						
				2	6	91	1		5	19	76					3340	
3S/15W-25D 1 S	--	8.3	8220	42	108	1620	60	0	172	670	2320	0	--	--	--	4990	549
10-19-65				2.10	8.88	70.44	1.53		2.82	13.95	65.42						
				3	11	85	2		3	17	80					4905	
3S/15W-25D 2 S	--	8.2	29600	256	757	6650	262	0	144	1860	11800	0	--	--	--	21730	3755
2-17-66				12.77	62.26	289.14	6.70		2.36	38.73	332.76						
				3	17	78	2		1	10	89					21656	
3S/15W-25G 6 S	--	8.9	1280	4	2	266	5	14	132	303	120	0	--	--	--	845	18
3-14-66				0.20	0.16	11.57	0.13	0.47	2.16	6.31	3.38						
				2	1	96	1	4	18	51	27					779	
3S/15W-25G 6 S	--	7.8	1160	83	29	128	4	0	128	339	110	0	--	--	--	821	326
3-16-66				4.14	2.38	5.57	0.10		2.10	7.06	3.10						
				34	20	46	1		17	58	25					756	
3S/15W-25H 3 S	--	8.7	1470	120	26	157	6	10	146	261	226	38	--	--	--	990	407
3-15-66				5.99	2.14	6.83	0.15	0.33	2.39	5.43	6.37	0.61					
				40	14	45	1	2	16	36	42	4				916	
3S/15W-25K 7 S	--	7.6	1180	15	17	215	3	0	150	310	99	0	--	--	--	809	108
5- 4-66				0.75	1.40	9.35	0.08		2.46	6.45	2.79						
				6	12	81	1		21	55	24					733	
3S/15W-25L 1 S	--	8.7	3180	5	7	700	22	11	159	494	640	0	--	--	--	2040	42
3-14-66				0.25	0.58	30.44	0.56	0.37	2.61	10.29	18.05						
				1	2	96	2	1	8	33	58					1957	
3S/15W-25P 1 S	--	8.1	9330	160	192	1620	70	0	186	556	2870	8.0	--	--	--	5660	1189
10-20-65				7.98	15.79	70.44	1.79		3.05	11.58	80.93	0.13					
				8	16	73	2		3	12	85					5567	
	--	7.7	9710	152	165	1820	65	0	195	583	3030	0	--	--	--	6010	1058
4- 5-66				7.58	13.57	79.13	1.66		3.20	12.14	85.45						
				7	13	78	2		3	12	85					5911	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 WEST COAST HYDRO SUBAREA U05A2																	
3S/15W-25O 3 S	--	8.0	41000	448	1070	9000	252	0	154	2330	16300	0	--	--	--	29600	5522
4- 5-66				22.36	88.00	391.32	6.44		2.52	48.51	459.66						
				4	17	77	1			9	90					29476	
3S/15W-25R 1 S	--	7.7	1210	18	29	205	12	0	147	323	111	0	--	--	--	845	164
4- 7-66				0.90	2.38	8.91	0.31		2.41	6.72	3.13						
				7	19	71	2		20	55	26					770	
3S/15W-25R 2 S	--	8.3	1400	3	2	300	7	0	155	328	149	0	--	--	--	944	16
4- 7-66				0.15	0.16	13.04	0.18		2.54	6.83	4.20						
				1	1	96	1		19	50	31					865	
4S/12W- 6D 3 S	75	7.9	413	32	2	56	3	0	165	20	12	--	--	--	21	228	88
11- 2-65				1.60	0.16	2.43	0.08		2.70	0.42	0.34						
4S/12W- 6J 2 S	75	8.0	383	11	0	75	2	0	176	1	23	--	--	--	20	220	28
11- 2-65				0.55		3.26	0.05		2.88	0.02	0.65						
4S/12W-14A 2 S	75	8.0	395	47	4	31	4	0	194	1	6	--	--	--	20	210	134
11- 2-65				2.35	0.33	1.35	0.10		3.18	0.02	0.17						
4S/12W-14C 2 S	75	8.1	332	6	0	73	2	0	157	3	8	--	--	--	19	190	15
11- 2-65				0.30		3.17	0.05		2.57	0.06	0.23						
4S/12W-20J 4 S	75	7.9	375	7	1	82	2	0	195	2	15	--	--	--	17	223	22
11- 2-65				0.35	0.08	3.57	0.05		3.20	0.04	0.42						
4S/12W-23C 1 S	75	8.4	338	20	2	56	2	5	149	4	8	--	--	--	18	190	58
11- 2-65				1.00	0.16	2.43	0.05	0.17	2.44	0.08	0.23						
4S/12W-23K 3 S	75	8.4	360	10	0	69	2	4	145	12	12	--	--	--	17	199	25
11- 2-65				0.50		3.00	0.05	0.13	2.38	0.25	0.34						
4S/12W-28H12 S	75	7.9	372	5	0	82	1	0	196	2	14	--	--	--	19	221	13
11- 2-65				0.25		3.57	0.03		3.21	0.04	0.39						
4S/12W-30R 1 S	--	8.8	2940	71	39	504	10	28	477	8	731	0	--	--	--	1870	338
3-30-66				3.54	3.21	21.91	0.26	0.93	7.82	0.17	20.61						
				12	11	76	1	3	26	1	70					1626	
4S/12W-31C 1 S	--	8.7	6760	192	112	1120	30	18	201	255	2080	0	--	--	--	4014	940
3-30-66				9.58	9.21	48.70	0.77	0.60	3.29	5.31	58.66						
				14	13	71	1	1	5	8	86					3906	
4S/12W-31M 1 S	--	8.1	3520	39	35	704	16	0	577	8	910	21.0	--	--	--	2290	242
4- 8-66				1.95	2.88	30.61	0.41		9.46	0.17	25.66	0.34					
				5	8	85	1		27		72	1				2017	
4S/13W-10E 3 S	72	8.4	715	63	17	56	3	7	221	81	54	2.0	0.3	0.10	--	400	227
10-25-65				3.14	1.40	2.43	0.08	0.23	3.62	1.69	1.52	0.03					
				45	20	34	1	3	51	24	21					392	
4S/13W-15C 1 S	76	8.3	436	26	8	52	3	0	176	32	25	2.0	0.3	0.06	--	233	98
10-25-65				1.30	0.66	2.26	0.08		2.88	0.67	0.71	0.03					
				30	15	53	2		67	16	17	1				235	
4S/13W-22E 1 S	79	8.2	411	21	5	60	3	0	198	4	29	2.0	0.3	0.17	--	238	73
10-26-65				1.05	0.41	2.61	0.08		3.25	0.08	0.82	0.03					
				25	10	63	2		78	2	20	1				222	
4S/13W-22G 5 S	--	8.2	1910	190	49	165	8	0	388	383	229	0	--	--	--	1410	676
11- 8-65				9.48	4.03	7.17	0.20		6.36	7.97	6.46						
				45	19	34	1		31	38	31					1215	
4S/13W-23A 2 S	--	8.8	4310	201	71	740	7	40	537	728	795	0	--	--	--	3120	794
4- 1-66				10.03	5.84	32.18	0.18	1.33	8.80	15.16	22.42						
				21	12	67		3	18	32	47					2846	
4S/13W-23N 3 S	--	8.4	361	15	4	62	4	0	184	5	26	0	--	--	--	300	54
11- 3-65				0.75	0.33	2.70	0.10		3.02	0.10	0.73						
				19	9	70	3		78	3	19					206	
4S/13W-23N 4 S	--	7.7	6510	388	135	830	18	0	374	252	1980	0	--	--	--	3980	1524
11- 3-65				19.36	11.10	36.09	0.46		6.13	5.25	55.84						
				29	17	54	1		9	8	83					3787	
4S/13W-23N 5 S	--	8.1	7220	524	211	700	29	0	274	183	2340	0	--	--	--	4260	2177
11- 3-65				26.15	17.35	30.44	0.74		4.49	3.81	65.99						
				35	23	41	1		6	5	89					4122	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 WEST COAST HYDRO SUBAREA U05A2																	
4S/14W- 6J 6 S	--	7.8	20400	846	501	3300	62	0	296	967	7170	0	--	--	--	13100	4174
11- 2-65				42.22	41.20	143.48	1.59		4.85	20.13	202.19						
				18	18	63	1		2	9	89					12992	
4S/14W- 6L 1 S	--	8.0	30900	1070	849	5630	150	0	200	1560	11900	0	--	--	--	21400	6165
11-19-65				53.39	69.82	244.79	3.84		3.28	32.48	335.58						
				14	19	66	1		1	9	90					21257	
4S/14W- 7C 3 S	--	8.0	41700	512	1170	9400	260	0	172	2400	17000	0	--	--	--	30900	6093
11-19-65				25.55	96.22	408.71	6.65		2.82	49.97	479.40						
				5	18	76	1		1	9	90					30827	
	--	8.1	40600	513	1170	9320	228	0	171	2410	17000	0	--	--	--	30800	6096
12- 1-65				25.60	96.22	405.23	5.83		2.80	50.18	479.40						
				5	18	76	1		1	9	90					30725	
4S/14W- 7F 1 S	--	8.2	43100	526	1250	10000	168	0	326	2450	18200	0	--	--	--	32900	6458
12- 1-65				26.25	102.80	434.80	4.30		5.34	51.01	513.24						
				5	18	77	1		1	9	90					32754	
4S/14W- 7K 2 S	--	8.1	40300	432	1260	10400	332	0	144	2660	18700	0	--	--	--	33900	6264
2- 8-66				21.56	103.62	452.19	8.49		2.36	55.38	527.34						
				4	18	77	1			9	90					33855	
4S/14W- 7P 1 S	--	8.4	40300	640	1190	9200	4	0	424	2210	17100	0	--	--	--	30800	6496
3- 2-66				31.94	97.87	400.02	0.10		6.95	46.01	482.22						
				6	18	75			1	9	90					30552	
4S/14W- 7P 2 S	--	7.4	41300	445	1260	10200	372	0	140	2640	18500	0	--	--	--	33600	6297
12- 7-65				22.21	103.62	443.50	9.51		2.29	54.96	521.70						
				4	18	77	2			9	90					33486	
4S/14W- 7P 3 S	--	8.1	38500	625	1160	9000	124	0	289	2260	16800	0	--	--	--	30300	6335
12- 7-65				31.19	95.40	391.32	3.17		4.74	47.05	473.76						
				6	18	75	1		1	9	90					30111	
4S/14W- 8D 2 S	--	8.5	1450	2	2	315	5	0	155	365	138	0	--	--	--	983	13
5- 5-66				0.10	0.16	13.70	0.13		2.54	7.60	3.89						
				1	1	97	1		18	54	28					903	
4S/14W- 8E 8 S	--	8.2	1290	100	35	138	5	0	155	374	124	0	--	--	--	931	394
10- 5-65				4.99	2.88	6.00	0.13		2.54	7.79	3.50						
				36	21	43	1		18	56	25					852	
	--	8.3	1290	99	35	138	5	0	151	374	124	0	--	--	--	926	391
10- 6-65				4.94	2.88	6.00	0.13		2.47	7.79	3.50						
				35	21	43	1		18	57	25					849	
	--	8.4	1280	97	36	138	5	0	145	374	124	0	--	--	--	918	390
10- 6-65				4.84	2.96	6.00	0.13		2.38	7.79	3.50						
				35	21	43	1		17	57	26					845	
	--	8.2	1290	98	34	140	5	0	146	374	125	0	--	--	--	922	385
10- 7-65				4.89	2.80	6.09	0.13		2.39	7.79	3.53						
				35	20	44	1		17	57	26					848	
	--	8.2	1300	98	34	140	5	0	145	374	128	0	--	--	--	924	385
10- 8-65				4.89	2.80	6.09	0.13		2.38	7.79	3.61						
				35	20	44	1		17	57	26					850	
	--	8.0	1340	99	34	138	6	0	158	367	125	0	--	--	--	927	387
10-14-65				4.94	2.80	6.00	0.15		2.59	7.64	3.53						
				36	20	43	1		19	56	26					847	
	--	7.8	1340	99	35	136	6	0	153	366	125	0	--	--	--	919	391
10-15-65				4.94	2.88	5.91	0.15		2.51	7.62	3.53						
				36	21	43	1		18	56	26					842	
	--	7.9	1340	99	34	138	6	0	154	371	127	0	--	--	--	930	387
10-18-65				4.94	2.80	6.00	0.15		2.52	7.72	3.58						
				36	20	43	1		18	56	26					851	
	--	7.8	1330	95	35	138	6	0	141	371	127	0	--	--	--	913	381
10-19-65				4.74	2.88	6.00	0.15		2.31	7.72	3.58						
				34	21	44	1		17	57	26					841	
4S/14W- 8F 4 S	--	8.2	19400	602	433	3520	68	0	203	963	6970	0	--	--	--	12800	3285
10-27-65				30.04	35.61	153.05	1.74		3.33	20.05	196.55						
				14	16	69	1		2	9	89					12656	
	--	8.0	18300	594	427	3340	36	0	207	922	6640	0	--	--	--	12200	3241
11-26-65				29.64	35.12	145.22	0.92		3.39	19.20	187.25						
				14	17	69			2	9	89					12061	
	--	8.0	17900	600	393	3240	46	0	207	881	6440	0	--	--	--	11800	3115
12-21-65				29.94	32.32	140.88	1.18		3.39	18.34	181.61						
				15	16	69	1		2	9	89					11702	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C 105C COMP	HARDNESS CACO3
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNIT U05A0 WEST COAST HYDRO SUBAREA U05A2																	
4S/14W- 8F 4 S	--	7.9	15300	369	286	2600	34	0	215	712	4920	0	--	--	--	9200	2098
4-20-66				18.41	23.52	113.05	0.87		3.52	14.82	138.74						
				12	15	73	1		2	9	88					9027	
4S/14W- 8F 5 S	--	7.7	14200	1160	405	1450	51	0	158	626	4960	0	--	--	--	8810	4563
10-27-65				57.88	33.31	63.05	1.30		2.59	13.03	139.87						
				37	21	41	1		2	8	90					8730	
	--	7.5	14100	1230	419	1430	40	0	191	650	5020	0	--	--	--	8990	4796
11-26-65				61.38	34.46	62.18	1.02		3.13	13.53	141.56						
				39	22	39	1		2	9	89					8883	
	--	7.8	14300	1140	383	1600	42	0	222	634	5070	0	--	--	--	9100	4423
12-21-65				56.89	31.50	69.57	1.07		3.64	13.20	142.97						
				36	20	44	1		2	8	89					8978	
	--	7.8	15400	978	352	1940	40	0	218	864	5080	0	--	--	--	9500	3891
4-20-66				48.80	28.95	84.35	1.02		3.57	17.99	143.26						
				30	18	52	1		2	11	87					9361	
4S/14W- 8F 6 S	--	8.2	18900	577	428	3390	56	0	205	926	6720	0	--	--	--	12300	3202
10-27-65				28.79	35.20	147.40	1.43		3.36	19.28	189.50						
				14	17	69	1		2	9	89					12198	
	--	8.0	18200	579	425	3300	40	0	201	906	6580	0	--	--	--	12000	3195
11-26-65				28.89	34.95	143.48	1.02		3.29	18.86	185.56						
				14	17	69			2	9	89					11929	
	--	8.2	17600	602	387	3100	40	0	210	856	6240	0	--	--	--	11400	3096
12-21-65				30.04	31.83	134.79	1.02		3.44	17.82	175.97						
				15	16	68	1		2	9	89					11328	
	--	8.0	15000	350	284	2600	34	0	211	704	4880	0	--	--	--	9100	2043
4-20-66				17.47	23.36	113.05	0.87		3.46	14.66	137.62						
				11	15	73	1		2	9	88					8956	
4S/14W- 8G 1 S	--	8.3	2490	195	62	196	10	0	191	82	652	0	--	--	--	1390	742
2- 8-66				9.73	5.10	8.52	0.26		3.13	1.71	18.39						
				41	22	36	1		13	7	79					1291	
4S/14W- 8M 2 S	--	8.4	4760	116	89	785	17	0	178	395	1280	0	--	--	--	2860	656
11-20-65				5.79	7.32	34.13	0.43		2.92	8.22	36.10						
				12	15	72	1		6	17	76					2770	
	--	8.2	1300	46	64	148	5	0	155	354	143	0	--	--	--	915	378
2-23-66				2.30	5.26	6.44	0.13		2.54	7.37	4.03						
				16	37	46	1		18	53	29					836	
	--	8.0	1290	80	39	147	4	0	162	348	138	0	--	--	--	919	360
4-26-66				3.99	3.21	6.39	0.10		2.66	7.25	3.89						
				29	23	47	1		19	53	28					836	
4S/14W- 8M 3 S	--	8.1	1160	98	27	117	2	0	144	332	106	0	--	--	--	827	356
11-30-65				4.89	2.22	5.09	0.05		2.36	6.91	2.99						
				40	18	42			19	56	24					753	
	--	8.3	1240	82	23	158	3	0	141	323	134	0	--	--	--	864	299
2-23-66				4.09	1.89	6.87	0.08		2.31	6.72	3.78						
				32	15	53	1		18	52	30					792	
	--	8.1	1250	71	21	173	3	0	148	325	133	0	--	--	--	874	264
4-26-66				3.54	1.73	7.52	0.08		2.43	6.77	3.75						
				28	13	58	1		19	52	29					799	
4S/14W- 8M14 S	--	7.2	2540	173	47	364	7	0	56	1050	218	3.0	--	--	--	1920	626
3-25-66				8.63	3.87	15.83	0.18		0.92	21.86	6.15	0.05					
				30	14	56	1		3	75	21					1890	
	--	6.9	3790	236	80	536	9	0	46	1140	634	0	--	--	--	2680	919
3-25-66				11.78	6.58	23.31	0.23		0.75	23.73	17.88						
				28	16	56	1		2	56	42					2658	
4S/14W- 8P 1 S	--	8.0	10900	797	275	1200	37	0	238	391	3650	0	--	--	--	6590	3122
1-18-66				39.77	22.62	52.18	0.95		3.90	8.14	102.93						
				34	20	45	1		3	7	90					6467	
4S/14W- 8P 2 S	--	7.7	658	44	13	82	5	0	270	4	83	0	--	--	--	500	164
11- 8-65				2.20	1.07	3.57	0.13		4.43	0.08	2.34						
				32	15	51	2		65	1	34					364	
	70	8.0	664	46	14	70	4	0	261	0	78	0	--	--	--	473	173
2-10-66				2.30	1.15	3.04	0.10		4.28		2.20						
				35	17	46	2		66		34					340	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 WEST COAST HYDRO SUBAREA U05A2																	
4S/14W- 9Q 1 S	--	8.5	922	46	14	128	5	0	286	0	152	3.0	--	--	--	634	173
10- 4-65				2.30	1.15	5.57	0.13		4.69		4.29	0.05					
				25	13	61	1		52		48	1				489	
	68	8.4	904	46	14	120	5	0	267	0	152	0	--	--	--	604	173
11- 1-65				2.30	1.15	5.22	0.13		4.38		4.29						
				26	13	59	1		51		49					468	
	64	8.1	907	46	14	124	5	0	286	0	152	3.0	--	--	--	764	173
12- 6-65				2.30	1.15	5.39	0.13		4.69		4.29	0.05					
				26	13	60	1		52		48	1				485	
	60	8.4	893	46	15	123	5	0	288	0	151	0	--	--	--	628	177
1- 3-66				2.30	1.23	5.35	0.13		4.72		4.26						
				26	14	59	1		53		47					482	
4S/14W-11F 1 S	72	8.0	886	73	23	80	7	0	249	49	144	3.0	0.3	0.12	--	560	277
10-26-65				3.64	1.89	3.48	0.18		4.08	1.02	4.06	0.05					
				40	21	38	2		44	11	44	1				502	
4S/14W-16L 4 S	74	8.5	861	42	16	120	6	5	297	5	125	2.0	0.4	0.26	--	480	171
10-28-65				2.10	1.32	5.22	0.15	0.17	4.87	0.10	3.53	0.03					
				24	15	59	2	2	56	1	41					468	
4S/14W-17D 1 S	--	8.0	11400	770	420	1130	40	0	222	288	4020	0	--	--	--	6894	3651
12- 2-65				38.42	34.54	49.13	1.02		3.64	6.00	113.36						
				31	28	40	1		3	5	92					6777	
	--	8.4	11500	757	418	1150	40	0	221	268	4000	0	--	--	--	6860	3610
3- 2-66				37.77	34.38	50.00	1.02		3.62	5.58	112.80						
				31	28	41	1		3	5	92					6742	
4S/14W-17D 4 S	--	8.1	22500	989	629	3640	56	0	221	1030	8400	0	--	--	--	15000	5058
10-22-65				49.35	51.73	158.27	1.43		3.62	21.44	236.88						
				19	20	61	1		1	8	90					14853	
	--	8.0	22000	985	630	3570	50	0	214	1010	8320	0	--	--	--	14800	5052
12-10-65				49.15	51.81	155.22	1.28		3.51	21.03	234.62						
				19	20	60			1	8	91					14670	
	--	8.2	21600	984	617	3560	46	0	197	967	8240	0	--	--	--	13700	4996
2-25-66				49.10	50.74	154.79	1.18		3.23	20.13	232.37						
				19	20	61			1	8	91					14511	
	--	7.9	23100	955	619	3600	56	0	204	992	8280	0	--	--	--	14700	4932
4-22-66				47.65	50.91	156.53	1.43		3.34	20.65	233.50						
				19	20	61	1		1	8	91					14602	
4S/14W-17D 5 S	--	8.1	40000	606	1140	8800	160	0	186	2280	16300	0	--	--	--	29500	6204
10-22-65				30.24	93.75	382.62	4.09		3.05	47.47	459.66						
				6	18	75	1		1	9	90					29377	
	--	7.9	38500	627	1130	8700	136	0	184	2270	16200	0	--	--	--	29300	6216
12-10-65				31.29	92.93	378.28	3.48		3.02	47.26	456.84						
				6	18	75	1		1	9	90					29153	
	--	8.1	37300	646	1130	8700	124	0	178	2250	16200	0	--	--	--	29200	6264
2-25-66				32.24	92.93	378.28	3.17		2.92	46.85	456.84						
				6	18	75	1		1	9	90					29138	
	--	8.0	40600	624	1120	8800	124	0	180	2270	16300	0	--	--	--	29400	6167
4-22-66				31.14	92.11	382.62	3.17		2.95	47.26	459.66						
				6	18	75	1		1	9	90					29327	
4S/14W-17D 6 S	--	8.2	6300	418	183	620	16	0	185	426	1850	0	--	--	--	3700	1797
10-22-65				20.86	15.05	26.96	0.41		3.03	8.87	52.17						
				33	24	43	1		5	14	81					3604	
	--	8.1	5890	424	176	550	13	0	170	331	1760	0	--	--	--	3420	1783
12-10-65				21.16	14.47	23.91	0.33		2.79	6.89	49.63						
				35	24	40	1		5	12	84					3338	
	--	7.8	11000	1060	430	770	25	0	157	519	3840	0	--	--	--	6800	4416
2-25-66				52.89	35.36	33.48	0.64		2.57	10.81	108.29						
				43	29	27	1		2	9	89					6721	
	--	7.8	11900	843	366	1300	20	0	164	667	4010	0	--	--	--	7370	3611
4-22-66				42.07	30.10	56.52	0.51		2.69	13.89	113.08						
				33	23	44			2	11	87					7287	
4S/14W-17D 8 S	--	8.2	15400	329	347	2800	34	0	167	963	5200	0	--	--	--	9840	2250
10-25-65				16.42	28.54	121.74	0.87		2.74	20.05	146.64						
				10	17	73	1		2	12	87					9755	
	--	7.7	15300	329	354	2800	31	0	164	926	5200	0	--	--	--	9800	2278
12-13-65				16.42	29.11	121.74	0.79		2.69	19.28	146.64						
				10	17	72			2	11	87					9721	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C 105C COMP	HARDNESS CACO3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNIT U05A0 WEST COAST HYDRO SUBAREA U05A2																	
4S/14W-17D 8 S	--	8.1	10500	256	242	1860	28	0	163	691	3410	0	--	--	--	6650	1635
2-25-66				12.77	19.90	80.87	0.72		2.67	14.39	96.16						
				11	17	71	1		2	13	85					6567	
	--	7.9	8580	192	187	1500	19	0	162	621	2600	0	--	--	--	5280	1249
4-25-66				9.58	15.38	65.22	0.49		2.66	12.93	73.32						
				11	17	72	1		3	15	82					5199	
4S/14W-17E 3 S	--	7.4	11200	705	539	850	45	0	143	70	4010	8.0	--	--	--	6370	3979
10-26-65				35.18	44.33	36.96	1.15		2.34	1.46	113.08	0.13					
				30	38	31	1		2	1	97					6297	
	--	8.0	11100	720	539	900	37	0	192	107	4080	0	--	--	--	6580	4016
12-14-65				35.93	44.33	39.13	0.95		3.15	2.23	115.06						
				30	37	33	1		3	2	96					6477	
	--	8.0	11000	694	520	830	42	0	205	111	3900	0	--	--	--	6310	3873
4-21-66				34.63	42.76	36.09	1.07		3.36	2.31	109.98						
				30	37	32	1		3	2	95					6198	
4S/14W-17E 4 S	--	8.3	28100	746	710	5450	85	0	238	1480	10700	0	--	--	--	19400	4785
10-26-65				37.23	58.39	236.97	2.17		3.90	30.81	301.74						
				11	17	71	1		1	9	90					19288	
	--	8.1	24500	656	603	4720	45	0	242	1260	9240	0	--	--	--	16800	4119
12- 2-65				32.73	49.59	205.23	1.15		3.97	26.23	260.57						
				11	17	71			1	9	90					16643	
	--	8.2	4200	57	49	764	13	0	172	453	1020	0	--	--	--	2530	344
4-21-66				2.84	4.03	33.22	0.33		2.82	9.43	28.76						
				7	10	82	1		7	23	70					2441	
4S/14W-17E 5 S	--	7.7	4100	326	141	274	18	0	258	64	1210	0	--	--	--	2290	1395
10-26-65				16.27	11.60	11.91	0.46		4.23	1.33	34.12						
				40	29	30	1		11	3	86					2160	
	--	7.9	4030	328	133	282	18	0	264	53	1210	0	--	--	--	2290	1367
12- 2-65				16.37	10.94	12.26	0.46		4.33	1.10	34.12						
				41	27	31	1		11	3	86					2154	
	--	7.9	3620	287	119	248	16	0	282	30	1050	0	--	--	--	2030	1206
4-21-66				14.32	9.79	10.78	0.41		4.62	0.62	29.61						
				41	28	31	1		13	2	85					1889	
4S/14W-17F 1 S	--	8.1	8440	640	257	770	45	0	294	125	2840	0	--	--	--	4970	2656
10-26-65				31.94	21.14	33.48	1.15		4.82	2.60	80.09						
				36	24	38	1		6	3	92					4822	
	--	8.3	10000	736	286	1100	34	0	290	210	3520	0	--	--	--	6180	3015
12-14-65				36.73	23.52	47.83	0.87		4.75	4.37	99.26						
				34	22	44	1		4	4	92					6029	
	--	8.4	11000	719	306	1230	43	0	283	255	3760	0	--	--	--	6600	3055
2-28-66				35.88	25.17	53.48	1.10		4.64	5.31	106.03						
				31	22	46	1		4	5	91					6452	
	--	8.1	10400	657	287	1150	40	0	292	226	3520	0	--	--	--	6170	2821
4-21-66				32.78	23.60	50.00	1.02		4.79	4.71	99.26						
				31	22	47	1		4	4	91					6024	
4S/14W-17F 2 S	--	7.7	13800	785	480	1760	54	0	220	490	5000	0	--	--	--	8790	3936
10-26-65				39.17	39.48	76.52	1.38		3.61	10.20	141.00						
				25	25	49	1		2	7	91					8677	
	--	7.8	13700	822	459	1660	40	0	268	453	4800	0	--	--	--	8500	3942
12-14-65				41.02	37.75	72.18	1.02		4.39	9.43	135.36						
				27	25	47	1		3	6	91					8366	
	--	8.0	12500	738	407	1420	4	0	251	325	4340	0	--	--	--	7490	3518
2-28-66				36.83	33.47	61.74	0.10		4.11	6.77	122.39						
				28	25	47			3	5	92					7357	
	--	7.8	12400	739	396	1420	42	0	272	325	4280	0	--	--	--	7480	3475
4-21-66				36.88	32.57	61.74	1.07		4.46	6.77	120.70						
				28	25	47	1		3	5	91					7336	
4S/14W-17H 1 S	--	8.2	1050	67	22	120	6	0	309	6	186	0	--	--	--	716	258
10- 4-65				3.34	1.81	5.22	0.15		5.06	0.12	5.25						
				32	17	50	1		49	1	50					559	
	74	7.3	1248	82	27	131	7	0	314	6	243	0.0	0.1	0.02	--	707	316
11- 1-65				4.09	2.22	5.70	0.18		5.15	0.12	6.85						
				34	18	47	1		42	1	57					650	
	72	8.5	1020	68	21	114	6	0	310	1	178	0	--	--	--	698	256
11- 1-65				3.39	1.73	4.96	0.15		5.08	0.02	5.02						
				33	17	48	1		50		50					540	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE								MILLIGRAMS PER LITER	
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0																	
WEST COAST HYDRO SUBAREA U05A2																	
4S/14W-17H 1 S	75	8.8	1060	70	23	120	6	37	234	0	199	0	--	--	--	670	269
12- 6-65				3.49	1.89	5.22	0.15	1.23	3.84		5.61						
				32	18	49	1	12	36		53					570	
4S/14W-17H 2 S	72	8.2	1032	63	19	116	6	0	235	41	184	2.0	0.3	0.18	--	575	235
11- 1-65				3.14	1.56	5.04	0.15		3.85	0.85	5.19	0.03					
				32	16	51	2		39	9	52					547	
	73	8.4	866	53	17	107	8	0	311	1	132	0	--	--	--	630	202
1- 3-66				2.64	1.40	4.65	0.20		5.10	0.02	3.72						
				30	16	52	2		58		42					471	
4S/14W-17P 1 S	77	8.2	2910	174	96	266	18	0	520	0	716	0	--	--	--	1790	830
2- 9-66				8.68	7.90	11.57	0.46		8.52		20.19						
				30	28	40	2		30		70					1526	
4S/14W-17P 2 S	72	8.0	3600	286	135	220	17	0	267	7	1070	0	--	--	--	2000	1270
2- 9-66				14.27	11.10	9.57	0.43		4.38	0.15	30.17						
				40	31	27	1		13		87					1866	
4S/14W-18A 1 S	--	8.0	25900	1120	830	4500	58	0	190	1200	10300	0	--	--	--	18200	6212
12- 9-65				55.89	68.26	195.66	1.48		3.11	24.98	290.46						
				17	21	61			1	8	91					18101	
	--	8.3	26000	1090	841	4400	58	0	187	1230	10400	0	--	--	--	18200	6182
3- 7-66				54.39	69.16	191.31	1.48		3.06	25.61	293.28						
				17	22	60			1	8	91					18111	
	--	7.9	27300	1100	834	4600	50	0	185	1230	10400	0	--	--	--	18400	6179
4-25-66				54.89	68.59	200.01	1.28		3.03	25.61	293.28						
				17	21	62			1	8	91					18305	
4S/14W-18A 2 S	--	7.9	37300	586	1060	8000	192	0	199	2080	15200	0	--	--	--	27300	5825
12- 9-65				29.24	87.17	347.84	4.91		3.26	43.31	428.64						
				6	19	74	1		1	9	90					27216	
	--	8.3	35700	606	1060	8200	180	0	195	2080	15200	0	--	--	--	27500	5875
3- 7-66				30.24	87.17	356.54	4.60		3.20	43.31	428.64						
				6	18	75	1		1	9	90					27422	
	--	7.9	38200	584	1040	8000	168	0	197	2070	15100	0	--	--	--	27200	5738
4-25-66				29.14	85.53	347.84	4.30		3.23	43.10	425.82						
				6	18	75	1		1	9	90					27059	
4S/14W-18A 3 S	--	8.1	12000	514	279	1820	25	0	240	597	3960	0	--	--	--	7160	2431
12- 9-65				25.65	22.94	79.13	0.64		3.93	12.43	111.67						
				20	18	62			3	10	87					7313	
	--	8.2	7720	406	194	1030	23	0	235	400	2440	0	--	--	--	4730	1812
3- 7-66				20.26	15.95	44.78	0.59		3.85	8.33	68.81						
				25	20	55	1		5	10	85					4609	
	--	8.0	5390	240	118	784	17	0	219	354	1530	0	--	--	--	3260	1085
4-25-66				11.98	9.70	34.09	0.43		3.59	7.37	43.15						
				21	17	61	1		7	14	80					3151	
4S/14W-18A 4 S	--	8.1	22000	1060	705	3520	56	0	181	963	8680	0	--	--	--	15200	5548
3- 8-66				52.89	57.98	153.05	1.43		2.97	20.05	244.78						
				20	22	58	1		1	7	91					15073	
4S/14W-18A 5 S	--	8.3	36500	584	1100	8400	192	0	203	2200	15800	0	--	--	--	28500	5985
3- 8-66				29.14	90.46	365.23	4.91		3.33	45.80	445.56						
				6	18	75	1		1	9	90					28376	
4S/14W-18A 6 S	--	8.4	7920	267	180	1230	18	0	236	435	2510	0	--	--	--	4880	1407
3- 8-66				13.32	14.80	53.48	0.46		3.87	9.06	70.78						
				16	18	65	1		5	11	85					4756	
4S/14W-18A 8 S	--	8.0	38200	606	1070	8280	216	0	194	2180	15500	0	--	--	--	28100	5917
10-25-65				30.24	88.00	360.01	5.52		3.18	45.39	437.10						
				6	18	74	1		1	9	90					27947	
	--	8.4	35200	570	1030	8200	124	0	195	2160	15000	0	--	--	--	27300	5662
3- 7-66				28.44	84.71	356.54	3.17		3.20	44.97	423.00						
				6	18	75	1		1	10	90					27180	
4S/14W-18A 9 S	--	8.2	2860	157	62	352	13	0	165	300	688	0	--	--	--	1740	647
10-25-65				7.83	5.10	15.30	0.33		2.70	6.25	19.40						
				27	18	54	1		10	22	68					1653	
	--	8.1	1570	67	28	225	8	0	155	290	249	0	--	--	--	1020	282
3- 7-66				3.34	2.30	9.78	0.20		2.54	6.04	7.02						
				21	15	63	1		16	39	45					943	
4S/14W-18B 1 S	--	8.1	35200	729	1070	7840	160	0	208	2040	15100	0	--	--	--	27200	6224
12-13-65				36.38	88.00	340.88	4.09		3.41	42.47	425.82						
				8	19	73	1		1	9	90					27041	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 WEST COAST HYDRO SUBAREA U05A2																	
4S/14W-18F 1 S	--	8.3	39700	501	1130	9200	7	0	297	2240	16600	0	--	--	--	30000	5901
3- 1-66				25.00	92.93	400.02	0.18		4.87	46.64	468.12						
				5	18	77			1	9	90					29824	
4S/14W-18H 1 S	--	7.9	26300	1040	878	4400	70	0	207	1140	10300	0	--	--	--	18000	6210
12- 3-65				51.90	72.21	191.31	1.79		3.39	23.73	290.46						
				16	23	60	1		1	7	91					17930	
	--	8.2	26700	1030	882	4550	3	0	209	1170	10400	0	--	--	--	18300	6202
2-28-66				51.40	72.54	197.83	0.08		3.43	24.36	293.28						
				16	23	61			1	8	91					18138	
	--	8.1	27500	1010	881	4550	85	0	214	1190	10400	0	--	--	--	18300	6147
4-22-66				50.40	72.45	197.83	2.17		3.51	24.78	293.28						
				16	22	61	1		1	8	91					18221	
4S/14W-18H 2 S	--	8.3	31200	665	877	6450	45	0	237	1680	12400	0	--	--	--	22400	5269
12- 3-65				33.18	72.12	280.45	1.15		3.88	34.98	349.68						
				9	19	72			1	9	90					22234	
	--	8.3	31400	672	873	6480	2	0	233	1680	12300	0	--	--	--	22200	5271
2-28-66				33.53	71.80	281.75	0.05		3.82	34.98	346.86						
				9	19	73			1	9	90					22122	
	--	8.0	32000	681	844	6250	58	0	241	1630	12100	0	--	--	--	21800	5174
4-22-66				33.98	69.41	271.75	1.48		3.95	33.94	341.22						
				9	18	72			1	9	90					21681	
4S/14W-18H 3 S	--	7.7	6690	576	218	525	25	0	294	181	2170	0	--	--	--	3990	2335
12- 3-65				28.74	17.93	22.83	0.64		4.82	3.77	61.19						
				41	26	33	1		7	5	88					3840	
	--	8.2	10700	808	317	1100	34	0	282	362	3630	0	--	--	--	6540	3322
2-28-66				40.32	26.07	47.83	0.87		4.62	7.54	102.37						
				35	23	42	1		4	7	89					6390	
	--	7.9	14100	882	366	1820	37	0	266	547	4860	0	--	--	--	8780	3708
4-22-66				44.01	30.10	79.13	0.95		4.36	11.39	137.05						
				29	20	51	1		3	7	90					8643	
4S/14W-18J 1 S	--	8.0	34000	672	955	7240	72	0	215	1880	13700	0	--	--	--	24700	5608
12- 8-65				33.53	78.54	314.80	1.84		3.52	39.14	386.34						
				8	18	73			1	9	90					24625	
4S/14W-18K 1 S	--	8.3	34700	672	991	7840	100	0	220	2000	14600	0	--	--	--	26400	5756
12- 8-65				33.53	81.50	340.88	2.56		3.61	41.64	411.72						
				7	18	74	1		1	9	90					26311	
4S/14W-18Q 1 S	--	8.2	30300	1160	913	5450	4	0	197	1400	12100	0	--	--	--	21200	6654
3- 1-66				57.88	75.09	236.97	0.10		3.23	29.15	341.22						
				16	20	64			1	8	91					21124	
4S/14W-18Q 3 S	--	8.4	27000	907	758	4900	3	0	338	1140	10400	0	--	--	--	18500	5384
3- 1-66				45.26	62.34	213.05	0.08		5.54	23.73	293.28						
				14	19	66			2	7	91					18274	
4S/14W-20G 1 S	--	8.3	14000	488	505	2000	42	0	573	0	5160	0	--	--	--	8770	3297
3- 8-66				24.35	41.53	86.96	1.07		9.39		145.51						
				16	27	57	1		6		94					8477	
4S/14W-20G 2 S	--	8.4	6600	580	281	355	22	0	538	7	2090	0	--	--	--	3870	2605
3- 8-66				28.94	23.11	15.44	0.56		8.82	0.15	58.94						
				43	34	23	1		13		87					3600	
4S/14W-20G 4 S	--	8.3	6920	556	219	640	24	0	275	229	2260	0	--	--	--	4200	2289
3- 8-66				27.74	18.01	27.83	0.61		4.51	4.77	63.73						
				37	24	38	1		6	7	87					4063	
4S/14W-21N 1 S	--	8.3	1045	72	34	96	9	13	398	0	134	2.0	0.3	0.24	--	570	320
10-27-65				3.59	2.80	4.17	0.23	0.43	6.52		3.78	0.03					
				33	26	39	2	4	61		35					556	
4S/14W-30P 2 S	--	8.7	441	22	9	65	4	24	198	0	27	0	--	--	--	349	92
3- 2-66				1.10	0.74	2.83	0.10	0.80	3.25		0.76						
				23	16	59	2	17	68		16					248	
4S/14W-35F 2 S	--	8.2	1038	62	25	120	6	0	332	54	138	0.0	0.3	0.24	--	593	258
10-28-65				3.09	2.06	5.22	0.15		5.44	1.12	3.89						
				29	20	50	1		52	11	37					569	
4S/18W-18Q 2 S	--	7.9	43500	504	1240	10400	6	0	150	2650	18500	0	--	--	--	33500	6362
3- 1-66				25.15	101.98	452.19	0.15		2.46	55.17	521.70						
				4	18	78				10	90					33374	
5S/12W- 3A 1 S	--	8.1	6160	351	68	955	9	0	277	736	1620	0	--	--	--	3970	1156
11-10-65				17.51	5.59	41.52	0.23		4.54	15.32	45.68						
				27	9	64			7	23	70					3875	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 WEST COAST HYDRO SUBAREA U05A2																	
5S/12W- 3C 1 S	--	8.5	471	11	2	100	2	0	276	5	18	0	--	--	--	416	36
11-10-65				0.55	0.16	4.35	0.05		4.52	0.10	0.51						
				11	3	85	1		88	2	10					274	
	--	8.5	459	11	2	101	1	13	256	4	17	0	--	--	--	406	36
12-31-65				0.55	0.16	4.39	0.03	0.43	4.20	0.08	0.48						
				11	3	86	1	8	81	2	9					275	
5S/12W-12M 2 S	--	8.6	327	10	2	65	1	11	149	10	14	0	--	--	--	262	33
3-24-66				0.50	0.16	2.83	0.03	0.37	2.44	0.21	0.39						
				14	5	80	1	11	72	6	11					186	
5S/13W- 1A 1 S	--	8.8	2220	35	31	430	12	40	606	4	417	0	--	--	--	1580	215
3-31-66				1.75	2.55	18.70	0.31	1.33	9.93	0.08	11.76						
				8	11	80	1	6	43		51					1267	
5S/13W- 3C 2 S	65	8.3	43500	440	1190	9400	320	0	302	2280	17100	12.0	--	--	--	31000	5996
10- 5-65				21.96	97.87	408.71	8.18		4.95	47.47	482.22	0.19					
				4	18	76	2		1	9	90					30890	
5S/13W- 3D 6 S	70	8.4	22500	338	607	4200	108	0	416	918	7960	10.0	--	--	--	14600	3342
10- 5-65				16.87	49.92	182.62	2.76		6.82	19.11	224.47	0.16					
				7	20	72	1		3	8	90					14346	
5S/13W- 3D 7 S	--	8.4	39400	490	1160	9100	260	0	278	2270	16700	0	--	--	--	30300	5997
11- 1-65				24.45	95.40	395.67	6.65		4.56	47.26	470.94						
				5	18	76	1		1	9	90					30117	
5S/13W- 4E 1 S	--	8.3	41300	1060	1380	9400	148	0	420	2370	18700	0	--	--	--	33500	8326
3- 9-66				52.89	113.49	408.71	3.78		6.88	49.34	527.34						
				9	20	71	1		1	8	90					33265	
5S/13W- 4E 2 S	--	8.6	9760	272	282	1420	25	14	359	84	3360	0	--	--	--	5820	1839
3- 9-66				13.57	23.19	61.74	0.64	0.47	5.88	1.75	94.75						
				14	23	62	1		6	2	92					5634	
5S/13W- 5C 1 S	--	8.4	751	11	8	145	7	0	325	0	91	0	--	--	--	591	61
4- 6-66				0.55	0.66	6.30	0.18		5.33		2.57						
				7	9	82	2		67		33					422	
5S/13W- 5C 2 S	--	7.9	39100	985	1110	7840	80	0	350	1940	15600	0	--	--	--	27900	7028
4- 6-66				49.15	91.29	340.88	2.05		5.74	40.39	439.92						
				10	19	71			1	8	91					27727	
5S/13W- 6B 1 S	--	8.2	2630	33	11	552	13	0	690	10	557	0	--	--	--	1870	128
4-13-66				1.65	0.90	24.00	0.33		11.31	0.21	15.71						
				6	3	89	1		42	1	58					1515	
5S/13W- 6B 2 S	--	7.8	44600	497	1260	10000	252	0	310	2440	18400	0	--	--	--	33200	6426
4-13-66				24.80	103.62	434.80	6.44		5.08	50.80	518.88						
				4	18	76	1		1	9	90					33001	
5S/13W- 6D 1 S	87	8.9	2310	30	16	450	13	51	446	12	488	0	--	--	--	1510	141
10- 4-65				1.50	1.32	19.57	0.33	1.70	7.31	0.25	13.76						
				7	6	86	1	7	32	1	60					1279	
	88	8.5	2357	29	17	434	11	19	460	0	476	4.0	0.9	1.65	--	1335	143
10-26-65				1.45	1.40	18.87	0.28	0.63	7.54		13.42	0.06					
				7	6	86	1	3	35		62					1219	
	87	8.4	2280	30	16	440	11	0	542	9	484	0	--	--	--	1540	141
11- 2-65				1.50	1.32	19.13	0.28		8.88	0.19	13.65						
				7	6	86	1		39	1	60					1257	
	87	8.6	2260	30	16	450	12	30	494	14	484	0	--	--	--	1530	141
12- 7-65				1.50	1.32	19.57	0.31	1.00	8.10	0.29	13.65						
				7	6	86	1	4	35	1	59					1279	
	87	8.6	2260	30	16	450	12	32	489	12	481	0	--	--	--	1530	141
1- 4-66				1.50	1.32	19.57	0.31	1.07	8.01	0.25	13.56						
				7	6	86	1	5	35	1	59					1273	
5S/13W- 8P 1 S	--	8.3	48500	806	1580	12500	225	0	402	3260	22900	0	--	--	--	41700	8515
3-10-66				40.22	129.94	543.50	5.75		6.59	67.87	645.78						
				6	18	76	1		1	9	90					41469	
5S/13W- 9B 2 S	--	8.7	35700	464	1010	8280	216	33	526	1780	15000	--	--	--	--	27300	5315
3-10-66				23.15	83.06	360.01	5.52	1.10	8.62	37.06	423.00						
5S/13W-17G 1 S	--	8.7	969	3	1	235	3	28	426	14	84	0	--	--	--	798	12
10-15-65				0.15	0.08	10.22	0.08	0.93	6.98	0.29	2.37						
				1	1	97	1	9	66	3	22					577	
	--	8.9	994	3	2	230	2	29	414	24	93	0	--	--	--	801	16
3- 9-66				0.15	0.16	10.00	0.05	0.97	6.79	0.50	2.62						
				1	2	97		9	62	5	24					587	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 SANTA MONICA HYDRO SUBAREA U05A3																	
2S/14W-19C 1 S	71	7.9	1120	83	32	110	7	0	404	115	102	0	--	--	--	853	339
12- 6-65				4.14	2.63	4.78	0.18		6.62	2.39	2.88						
				35	22	41	2		56	20	24					648	
2S/14W-19C 2 S	--	7.7	1310	107	40	115	7	0	421	146	140	0	--	--	--	977	432
1-12-66				5.34	3.29	5.00	0.18		6.90	3.04	3.95						
				39	24	36	1		50	22	28					762	
2S/15W-11F 8 S	--	8.0	1200	71	35	128	3	0	395	142	104	0	--	--	--	881	321
1-12-66				3.54	2.88	5.57	0.08		6.47	2.96	2.93						
				29	24	46	1		52	24	24					677	
2S/15W-14Q 2 S	68	7.7	1510	125	54	140	2	0	456	222	136	47	--	--	--	1180	534
10- 4-65				6.24	4.44	6.09	0.05		7.47	4.62	3.84	0.76					
				37	26	36			45	28	23	5				950	
	65	7.6	1500	130	51	130	2	0	452	222	134	50	--	--	--	1170	534
11- 1-65				6.49	4.19	5.65	0.05		7.41	4.62	3.78	0.81					
				40	26	34			45	28	23	5				941	
	58	7.7	1480	130	52	145	2	0	477	216	132	78.0	--	--	--	1230	539
12- 6-65				6.49	4.28	6.30	0.05		7.82	4.50	3.72	1.26					
				38	25	37			45	26	22	7				990	
	53	7.4	1570	129	53	133	2	0	440	212	153	44.0	--	--	--	1170	540
1-12-66				6.44	4.36	5.78	0.05		7.21	4.41	4.31	0.71					
				39	26	35			43	27	26	4				942	
	54	7.8	1470	129	53	138	2	0	476	217	130	46.0	--	--	--	1190	540
2- 8-66				6.44	4.36	6.00	0.05		7.80	4.52	3.67	0.74					
				38	26	36			47	27	22	4				949	
2S/15W-22B 6 S	68	7.9	2500	212	98	118	10	0	313	617	215	29.0	0.5	0.43	--	1932	933
10-28-65				10.58	8.06	5.13	0.26		5.13	12.85	6.06	0.47					
				44	34	21	1		21	52	25	2				1454	
2S/15W-22B 8 S	69	7.7	1890	125	53	240	3	0	560	335	132	86.0	--	--	--	1530	530
2- 8-66				6.24	4.36	10.44	0.08		9.18	6.97	3.72	1.39					
				30	21	49			43	33	17	7				1249	
2S/15W-22E 3 S	--	7.5	9580	584	304	1150	20	0	329	742	2960	0	--	--	--	6090	2709
10-13-65				29.14	25.00	50.00	0.51		5.39	15.45	83.47						
				28	24	48			5	15	80					5922	
2S/15W-22E 5 S	--	7.4	3700	164	87	532	5	0	387	494	776	28.0	--	--	--	2470	767
10-13-65				8.18	7.15	23.13	0.13		6.34	10.29	21.88	0.45					
				21	19	60			16	26	56	1				2276	
2S/15W-22R 3 S	--	7.7	4170	290	180	372	9	0	763	326	922	0	--	--	--	2860	1465
10-11-65				14.47	14.80	16.17	0.23		12.51	6.79	26.00						
				32	32	35	1		28	15	57					2474	
2S/15W-23A 1 S	66	8.0	4500	279	107	490	4	0	272	330	1149	34.0	0.9	1.55	--	3116	1137
10-28-65				13.92	8.80	21.31	0.10		4.46	6.87	32.40	0.55					
				32	20	48			10	16	73	1				2529	
2S/15W-23A 6 S	60	7.8	2703	169	75	300	7	0	296	418	511	4.0	0.9	0.70	--	1730	731
10-28-65				8.43	6.17	13.04	0.18		4.85	8.70	14.41	0.06					
				30	22	47	1		17	31	51					1631	
2S/15W-23C 4 S	--	7.9	3300	355	55	245	5	0	231	783	435	36.0	0.8	0.69	--	2324	1112
10-28-65				17.71	4.52	10.65	0.13		3.79	16.30	12.27	0.58					
				54	14	32			12	49	37	2				2029	
2S/15W-23J 4 S	66	7.5	4150	318	180	400	5	0	593	925	636	80.0	1.2	0.90	--	3020	1535
10-27-65				15.87	14.80	17.39	0.13		9.72	19.26	17.94	1.29					
				33	31	36			20	40	37	3				2838	
2S/15W-23N 1 S	67	7.6	12000	728	437	1420	16	0	500	959	3720	0	--	--	--	7780	3616
10- 4-65				36.33	35.94	61.74	0.41		8.20	19.97	104.90						
				27	27	46			6	15	79					7526	
	67	7.5	11779	740	443	1440	14	0	390	974	3878	5.0	1.0	0.95	--	8230	3671
10-27-65				36.93	36.43	62.61	0.36		6.39	20.28	109.36	0.08					
				27	27	46			5	15	80					7688	
	65	7.4	13000	801	466	1620	13	0	493	1020	4200	0	--	--	--	8610	3918
11- 1-65				39.97	38.32	70.44	0.33		8.08	21.24	118.44						
				27	26	47			5	14	80					8362	
	65	7.3	4850	381	205	490	3	0	888	766	918	98.0	--	--	--	3750	1795
12- 6-65				19.01	16.86	21.31	0.08		14.55	15.95	25.89	1.58					
				33	29	37			25	28	45	3				3298	
	55	7.4	4380	326	181	428	2	0	815	654	752	96.0	--	--	--	3250	155
1-12-66				16.27	14.89	18.61	0.05		13.36	13.62	21.21	1.55					
				33	30	37			27	27	43	3				2840	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
SANTA MONICA HYDRO SUBAREA U05A3																	
2S/15W-23N 1 S	57	7.4	3420	233	123	382	2	0	613	510	583	88.0	--	--	--	2530	1088
2- 8-66				11.63	10.12	16.61	0.05		10.05	10.62	16.44	1.42					
				30	26	43			26	28	43	4				2222	
2S/15W-27L 1 S	--	8.1	2500	83	69	332	17	0	588	0	552	0	--	--	--	1650	491
10- 8-65				4.14	5.67	14.44	0.43		9.64		15.57						
				17	23	59	2		38		62					1342	
2S/15W-28Q 1 S	--	8.4	17700	152	458	3400	114	0	748	872	5840	21.0	--	--	--	11600	2264
10- 8-65				7.58	37.67	147.83	2.91		12.26	18.16	164.69	0.34					
				4	19	75	1		6	9	84					11225	
CENTRAL HYDRO SUBAREA U05A5																	
2S/11W-30Q 1 S	--	7.9	1191	133	37	60	4	0	310	249	70	20.0	0.5	0.07	--	811	484
12- 7-65				6.64	3.04	2.61	0.10		5.08	5.18	1.97	0.32					
				54	25	21	1		40	41	16	3				726	
	--	7.6	1188	145	35	61	5	0	332	257	68	21	0.5	0.14	--	810	506
5-24-66				7.24	2.88	2.65	0.13		5.44	5.35	1.92	0.34					
				56	22	21	1		42	41	15	3				756	
2S/12W- 1P 2 S	81	7.5	1196	98	22	123	5	--	224	184	162	0	0.8	0.32	20	726	335
9-13-66				4.89	1.81	5.35	0.13		3.67	3.83	4.57						
				40	15	44	1		30	32	38					725	
2S/12W- 1P 3 S	82	7.5	1167	120	27	130	5	--	220	187	229	0	0.9	0.48	23	830	411
9-13-66				5.99	2.22	5.65	0.13		3.61	3.89	6.46						
				43	16	40	1		26	28	46					830	
COASTAL PL OF LA CO HYDRO SUBUNIT U05A0																	
CENTRAL HYDRO SUBAREA U05A5																	
2S/12W- 1R 2 S	72	8.3	1074	85	22	114	4	7	188	207	121	2.0	0.8	0.22	--	695	303
10-28-65				4.24	1.81	4.96	0.10	0.23	3.08	4.31	3.41	0.03					
				38	16	45	1	2	28	39	31					655	
2S/12W- 7C 2 S	72	8.4	623	53	15	62	2	0	227	56	53	9.0	--	--	--	476	194
11- 5-65				2.64	1.23	2.70	0.05		3.72	1.17	1.49	0.15					
				40	19	41	1		57	18	23	2				362	
2S/12W-10K 3 S	71	8.6	592	59	12	53	2	0	245	35	53	0	--	--	--	460	197
11- 5-65				2.94	0.99	2.30	0.05		4.02	0.73	1.49						
				47	16	37	1		64	12	24					334	
2S/12W-10J 1 S	--	8.0	607	60	12	48	3	0	230	35	52	1.0	0.2	0.17	--	352	199
12- 7-65				2.99	0.99	2.09	0.08		3.77	0.73	1.47	0.02					
				49	16	34	1		63	12	25					324	
	--	8.1	608	61	13	49	3	0	237	39	55	0.5	0.4	0.18	--	340	206
5-24-66				3.04	1.07	2.13	0.08		3.88	0.81	1.55	0.01					
				48	17	34	1		62	13	25					338	
2S/12W-12A 3 S	66	8.1	1000	103	19	93	5	0	220	209	92	8	--	--	--	748	335
3- 9-66				5.14	1.56	4.04	0.13		3.61	4.35	2.59	0.13					
				47	14	37	1		34	41	24	1				637	
2S/12W-12M 2 S	--	7.6	863	95	20	57	4	0	213	157	69	1.0	0.4	0.13	--	491	319
12- 7-65				4.74	1.64	2.48	0.10		3.49	3.27	1.95	0.02					
				53	18	28	1		40	37	22					508	
	--	7.9	901	103	17	64	5	0	217	176	76	4.2	0.5	0.16	--	580	327
5-24-66				5.14	1.40	2.78	0.13		3.56	3.66	2.14	0.07					
				54	15	29	1		38	39	23	1				552	
2S/12W-13D 7 S	--	8.3	1051	102	23	85	4	0	178	241	90	8.0	0.5	0.14	--	708	349
12- 7-65				5.09	1.89	3.70	0.10		2.92	5.02	2.54	0.13					
				47	18	34	1		28	47	24	1				641	
	70	7.5	957	84	18	81	5	--	175	200	78	7.0	0.4	0.15	15		284
2- 8-66				4.19	1.48	3.52	0.13		2.87	4.16	2.20	0.11					
				45	16	38	1		31	45	24	1				575	
	--	7.9	927	83	21	80	5	0	178	203	77	5.5	0.5	0.14	--	575	294
5-24-66				4.14	1.73	3.48	0.13		2.92	4.23	2.17	0.09					
				44	18	37	1		31	45	23	1				563	
2S/12W-14B 8 S	--	7.7	1115	94	25	103	5	0	169	252	100	11.0	0.5	0.18	--	723	338
12- 7-65				4.69	2.06	4.48	0.13		2.77	5.25	2.82	0.18					
				41	18	39	1		25	48	26	2				674	
	70	7.5	1001	75	21	93	6	--	162	211	84	12.0	0.5	0.12	13		274
2- 8-66				3.74	1.73	4.04	0.15		2.66	4.39	2.37	0.19					
				39	18	42	2		28	46	25	2				595	
	--	7.9	970	96	20	80	5	0	181	216	83	10	0.5	0.16	--	625	322
5-24-66				4.79	1.64	3.48	0.13		2.97	4.50	2.34	0.16					
				48	16	35	1		30	45	23	2				600	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 CENTRAL HYDRO SUBAREA U05A5																	
2S/12W-15J 3 S	70	7.4	1071	102	21	81	5	--	175	227	92	15.0	0.4	0.21	16		341
2- 8-66				5.09	1.73	3.52	0.13		2.87	4.73	2.59	0.24					
				49	17	34	1		28	45	25	2				646	
2S/12W-20R 1 S	77	7.9	909	110	23	46	3	--	206	180	73	9	0.3	0.19	20	567	369
9-27-66				5.49	1.89	2.00	0.08		3.38	3.75	2.06	0.15					
				58	20	21	1		36	40	22	2				566	
2S/12W-21B 5 S	--	7.7	876	102	22	51	4	0	181	199	70	4.0	0.5	0.16	--	565	345
5-24-66				5.09	1.81	2.22	0.10		2.97	4.14	1.97	0.06					
				55	20	24	1		32	45	22	1				542	
2S/12W-21J 1 S	77	8.0	909	105	20	54	3	--	186	192	78	5	0.3	0.16	18	567	344
9-27-66				5.24	1.64	2.35	0.08		3.05	4.00	2.20	0.08					
				56	18	25	1		33	43	24	1				567	
2S/12W-21K 2 S	77	7.7	909	99	22	52	3	--	190	184	73	6	0.4	0.16	19	553	338
9-27-66				4.94	1.81	2.26	0.08		3.11	3.83	2.06	0.10					
				54	20	25	1		34	42	23	1				552	
2S/12W-23P 4 S	64	7.6	1000	100	21	90	4	0	180	246	84	10	--	--	--	735	336
11- 9-65				4.99	1.73	3.91	0.10		2.95	5.12	2.37	0.16					
				47	16	36	1		28	48	22	2				644	
2S/12W-24E 6 S	--	7.6	979	116	24	51	4	0	222	208	69	11.0	0.4	0.10	--	650	388
12- 7-65				5.79	1.97	2.22	0.10		3.64	4.33	1.95	0.18					
				57	20	22	1		36	43	19	2				593	
	--	7.5	960	105	23	64	5	0	176	226	78	10	0.5	0.12	--	615	357
5-24-66				5.24	1.89	2.78	0.13		2.88	4.71	2.20	0.16					
				52	19	28	1		29	47	22	2				598	
2S/12W-25E10 S	--	7.6	978	105	23	69	5	0	154	252	81	4.5	1.3	0.10	--	630	357
5-24-66				5.24	1.89	3.00	0.13		2.52	5.25	2.28	0.07					
				51	18	29	1		25	52	23	1				617	
2S/12W-25M 1 S	77	7.7	935	108	24	50	4	--	168	221	78	6	0.2	0.06	20	594	368
9-27-66				5.39	1.97	2.17	0.10		2.75	4.60	2.20	0.10					
				56	20	23	1		28	48	23	1				594	
2S/12W-25P 7 S	--	8.4	940	110	21	70	4	10	162	244	81	7.0	0.5	0.10	--	670	361
10-28-65				5.49	1.73	3.04	0.10	0.33	2.66	5.08	2.28	0.11					
				53	17	29	1	3	25	49	22	1				627	
2S/12W-25Q 5 S	--	8.1	566	64	16	29	3	0	229	66	22	4.2	0.3	0.15	--	326	226
12- 7-65				3.19	1.32	1.26	0.08		3.75	1.37	0.62	0.07					
				55	23	22	1		65	24	11	1				317	
	--	8.0	561	64	16	32	3	0	229	68	20	6.0	0.5	0.06	--	340	226
5-24-66				3.19	1.32	1.39	0.08		3.75	1.42	0.56	0.10					
				53	22	23	1		64	24	10	2				322	
2S/12W-26E 3 S	--	8.2	992	106	23	68	4	--	193	216	79	13.0	0.6	0.13	--	632	359
12- 7-65				5.29	1.89	2.96	0.10		3.16	4.50	2.23	0.21					
				52	18	29	1		31	45	22	2				605	
	--	7.8	981	99	25	72	5	0	181	227	83	11	0.5	0.14	--	645	350
5-24-66				4.94	2.06	3.13	0.13		2.97	4.73	2.34	0.18					
				48	20	31	1		29	46	23	2				612	
	77	7.3	990	102	22	78	2	--	187	219	87	17	0.5	0.16	20	640	345
9-27-66				5.09	1.81	3.39	0.05		3.06	4.56	2.45	0.27					
				49	18	33			30	44	24	3				640	
2S/12W-26Q 1 S	77	7.7	926	106	23	46	4	--	183	202	71	2	0.3	0.06	19	563	359
9-27-66				5.29	1.89	2.00	0.10		3.00	4.21	2.00	0.03					
				57	20	22	1		32	46	22					563	
2S/12W-28Q 1 S	68	7.9	880	104	18	62	4	0	188	200	70	8	--	--	--	654	334
11- 9-65				5.19	1.48	2.70	0.10		3.08	4.16	1.97	0.13					
				55	16	29	1		33	45	21	1				558	
2S/12W-28A 4 S	--	7.9	1360	47	16	212	5	--	144	339	125	0.5	0.7	0.14	--	820	184
12- 7-65				2.35	1.32	9.22	0.13		2.36	7.06	3.53	0.01					
				18	10	71	1		18	54	27					816	
	--	7.9	1360	47	16	212	5	--	144	339	125	0.5	0.7	0.14	--	820	184
12- 7-65				2.35	1.32	9.22	0.13		2.36	7.06	3.53	0.01					
				18	10	71	1		18	54	27					816	
	--	8.2	1282	56	26	180	5	0	149	337	120	2.5	0.6	0.18	--	810	247
5-24-66				2.79	2.14	7.83	0.13		2.44	7.02	3.38	0.04					
				22	17	61	1		19	55	26					800	
	77	8.2	1333	31	13	228	8	--	146	327	121	0	0.5	0.16	8	808	131
9-27-66				1.55	1.07	9.91	0.20		2.39	6.81	3.41						
				12	8	78	2		19	54	27					808	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 CENTRAL HYDRO SUBAREA U05A5																	
2S/12W-30H 2 S	--	8.4	690	85	16	44	3	7	198	127	48	5.0	0.5	0.08	--	470	278
10-28-65				4.24	1.32	1.91	0.08	0.23	3.25	2.64	1.35	0.08					
				56	17	25	1	3	43	35	18	1				433	
2S/12W-33B 1 S	77	7.5	893	103	21	52	4	--	212	170	67	15	0.3	0.16	17	553	344
9-27-66				5.14	1.73	2.26	0.10		3.47	3.54	1.89	0.24					
				56	19	24	1		38	39	21	3				554	
2S/12W-33M 1 S	77	7.5	909	110	22	44	4	--	210	177	68	13	0.4	0.10	21	563	365
9-27-66				5.49	1.81	1.91	0.10		3.44	3.69	1.92	0.21					
				59	19	21	1		37	40	21	2				563	
2S/12W-34P 1 S	--	8.0	950	106	22	52	5	0	187	195	74	12.0	0.5	0.31	--	564	355
11- 3-65				5.29	1.81	2.26	0.13		3.06	4.06	2.09	0.19					
				56	19	24	1		33	43	22	2				559	
2S/12W-34R 1 S	77	7.6	625	74	16	33	3	--	216	88	29	14	0.4	0.06	19	383	251
9-27-66				3.69	1.32	1.43	0.08		3.54	1.83	0.82	0.23					
				57	20	22	1		55	29	13	4				383	
2S/12W-35D 2 S	--	7.9	903	105	26	39	4	0	170	208	68	2.0	0.5	0.16	--	583	369
12- 7-65				5.24	2.14	1.70	0.10		2.79	4.33	1.92	0.03					
				57	23	19	1		31	48	21					536	
	--	7.7	896	114	24	41	4	0	183	212	67	6.5	0.6	0.10	--	605	383
5-24-66				5.69	1.97	1.78	0.10		3.00	4.41	1.89	0.10					
				60	21	19	1		32	47	20	1				559	
2S/12W-35K 1 S	77	8.0	476	59	11	25	3	--	223	39	14	7	0.4	0.06	20	288	192
9-27-66				2.94	0.90	1.09	0.08		3.65	0.81	0.39	0.11					
				59	18	22	2		74	16	8	2				288	
2S/12W-35P 1 S	77	7.7	517	53	18	27	3	--	219	58	19	4	0.1	0.06	20	310	206
9-27-66				2.64	1.48	1.17	0.08		3.59	1.21	0.54	0.06					
				49	28	22	1		66	22	10	1				310	
2S/13W-12A 1 S	68	8.4	720	67	21	58	2	0	251	74	56	22.0	--	--	--	551	254
11- 5-65				3.34	1.73	2.52	0.05		4.11	1.54	1.58	0.35					
				44	23	33	1		54	20	21	5				423	
2S/13W-25Q 5 S	66	8.0	549	68	13	35	3	0	238	65	20	5	--	--	--	447	223
11- 9-65				3.39	1.07	1.52	0.08		3.90	1.35	0.56	0.08					
				56	18	25	1		66	23	10	1				326	
2S/14W- 5D 8 S	71	7.9	1160	74	41	128	4	0	443	116	104	0	--	--	--	910	353
10- 4-65				3.69	3.37	5.57	0.10		7.26	2.42	2.93						
				29	26	44	1		58	19	23					685	
	69	7.9	1220	85	42	124	5	0	448	124	116	0	--	--	--	945	385
1-12-66				4.24	3.45	5.39	0.13		7.34	2.58	3.27						
				32	26	41	1		56	20	25					716	
2S/14W-14C 2 S	69	8.2	648	71	16	45	4	0	233	99	34	4.0	0.5	0.12	--	375	243
11- 4-65				3.54	1.32	1.96	0.10		3.82	2.06	0.96	0.06					
				51	19	28	1		55	30	14	1				388	
2S/14W-22P 2 S	72	8.3	682	71	15	52	4	5	246	77	41	4.0	0.4	0.14	--	390	239
11- 2-65				3.54	1.23	2.26	0.10	0.17	4.03	1.60	1.16	0.06					
				50	17	32	1	2	57	23	17	1				390	
2S/14W-23H 3 S	65	8.0	722	74	20	49	4	0	228	109	48	10.0	0.5	0.14	--	433	267
10-28-65				3.69	1.64	2.13	0.10		3.74	2.27	1.35	0.16					
				49	22	28	1		50	30	18	2				427	
2S/14W-23H12 S	65	8.0	612	55	18	45	4	0	187	96	35	14.0	0.5	0.12	--	358	211
10-28-65				2.74	1.48	1.96	0.10		3.06	2.00	0.99	0.23					
				44	24	31	2		49	32	16	4				360	
3S/11W-17R 4 S	70	8.2	643	67	13	52	4	--	245	49	59	0.0	0.3	0.06	--	343	221
9- 1-66				3.34	1.07	2.26	0.10		4.02	1.02	1.66						
				49	16	33	1		60	15	25					365	
3S/11W-27G 1 S	76	7.2	450	16	0	85	1	0	170	24	37	2.0	0.7	0.28	--	328	40
11- 2-65				0.80		3.70	0.03		2.79	0.50	1.04	0.03					
				18		82	1		64	11	24	1				249	
3S/11W-28P 5 S	--	8.4	600	53	15	53	2	7	201	58	48	0.0	0.6	0.06	--	357	194
10-29-65				2.64	1.23	2.30	0.05	0.23	3.29	1.21	1.35						
				42	20	37	1	4	54	20	22					335	
3S/12W- 1K 1 S	--	7.5	1025	127	30	42	4	0	243	212	75	8.0	0.4	0.21	--	658	441
12- 7-65				6.34	2.47	1.83	0.10		3.98	4.41	2.12	0.13					
				59	23	17	1		37	41	20	1				618	
	--	7.5	985	125	28	45	4	0	232	217	75	6.0	0.5	0.10	--	670	427
5-24-66				6.24	2.30	1.96	0.10		3.80	4.52	2.12	0.10					
				59	22	18	1		36	43	20	1				615	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 CENTRAL HYDRO SUBAREA U05A5																	
3S/12W- 2H 4 S	77	7.6	694	90	13	36	3	--	206	123	44	6	0.3	0.10	20	437	278
9-27-66				4.49	1.07	1.57	0.08		3.38	2.56	1.24	0.10					
				62	15	22	1		46	35	17	1				437	
3S/12W- 5A 1 S	79	7.5	943	112	24	43	4	--	228	178	64	14	0.4	0.16	18	569	378
9-27-66				5.59	1.97	1.87	0.10		3.74	3.71	1.80	0.23					
				59	21	20	1		39	39	19	2				570	
3S/12W- 5M 1 S	75	7.7	757	101	20	33	3	--	247	138	41	10	0.5	0.13	21	490	334
9-20-66				5.04	1.64	1.43	0.08		4.05	2.87	1.16	0.16					
				62	20	17	1		49	35	14	2				489	
3S/12W- 8D 1 S	75	7.9	755	101	20	32	3	--	248	132	41	10	0.4	0.16	23	485	334
9-20-66				5.04	1.64	1.39	0.08		4.06	2.75	1.16	0.16					
				62	20	17	1		50	34	14	2				484	
3S/12W- 8F 1 S	70	8.2	475	41	12	39	3	0	179	48	24	7.5	0.4	0.07	--	291	152
10-29-65				2.05	0.99	1.70	0.08		2.93	1.00	0.68	0.12					
				43	21	35	2		62	21	14	3				263	
3S/12W-10C 3 S	77	7.5	1538	201	44	74	6	--	453	279	131	0	0.2	0.13	19	977	683
9-27-66				10.03	3.62	3.22	0.15		7.42	5.81	3.69						
				59	21	19	1		44	34	22					977	
3S/12W-11E 1 S	--	7.9	778	98	23	31	4	0	225	142	44	6.5	0.4	0.18	--	476	339
12- 7-65				4.89	1.89	1.35	0.10		3.69	2.96	1.24	0.10					
				59	23	16	1		46	37	16	1				460	
	--	7.6	779	103	21	33	4	0	224	153	43	8.0	0.5	0.06	--	510	344
5-24-66				5.14	1.73	1.43	0.10		3.67	3.19	1.21	0.13					
				61	21	17	1		45	39	15	2				476	
3S/12W-18H 4 S	75	7.7	617	75	15	38	3	--	275	45	43	0	1.1	0.06	23	379	249
9-20-66				3.74	1.23	1.65	0.08		4.51	0.94	1.21						
				56	18	25	1		68	14	18					378	
3S/12W-18L 1 S	77	7.8	685	78	16	41	3	--	292	57	39	0	0.4	0.13	21	399	261
9-13-66				3.89	1.32	1.78	0.08		4.79	1.19	1.10						
				55	19	25	1		68	17	16					399	
3S/12W-19C 1 S	75	7.7	684	81	17	42	3	--	298	65	41	1	0.4	0.06	25	422	272
9-20-66				4.04	1.40	1.83	0.08		4.88	1.35	1.16	0.02					
				55	19	25	1		66	18	16					422	
3S/12W-25K 1 S	--	8.0	341	33	11	24	3	0	188	15	10	0.0	0.4	0.04	--	168	128
10-29-65				1.65	0.90	1.04	0.08		3.08	0.31	0.28						
				45	25	28	2		84	8	8					189	
3S/12W-28C 2 S	64	8.2	447	60	8	21	2	0	232	16	16	2.0	0.5	0.06	--	227	183
1-25-66				2.99	0.66	0.91	0.05		3.80	0.33	0.45	0.03					
				65	14	20	1		82	7	10	1				240	
3S/12W-32B 3 S	78	8.7	390	11	2	75	1	8	170	3	26	--	--	--	20	230	36
5-31-66				0.55	0.16	3.26	0.03	0.27	2.79	0.06	0.73						
3S/12W-33A 1 S	--	8.2	450	53	10	19	4	14	188	19	13	18.0	0.4	0	--	276	173
11- 2-65				2.64	0.82	0.83	0.10	0.47	3.08	0.40	0.37	0.29					
				60	19	19	2	10	67	9	8	6				243	
3S/13W- 9A 1 S	77	7.9	893	55	16	94	4	--	159	183	63	0	0.4	0.10	18	513	203
9-13-66				2.74	1.32	4.09	0.10		2.61	3.81	1.78						
				33	16	50	1		32	46	22					512	
3S/13W- 9K 1 S	77	8.1	595	58	13	44	3	--	224	78	25	0	0.3	0.10	20	352	198
9-13-66				2.89	1.07	1.91	0.08		3.67	1.62	0.71						
				49	18	32	1		61	27	12					352	
3S/13W-13F 4 S	75	7.9	526	53	11	36	2	--	238	41	17	0	0.4	0.10	22	300	177
9-13-66				2.64	0.90	1.57	0.05		3.90	0.85	0.48						
				51	17	30	1		75	16	9					300	
3S/13W-13G 1 S	77	7.6	685	75	16	43	3	--	251	78	47	0	0.5	0.10	24	410	253
9-13-66				3.74	1.32	1.87	0.08		4.11	1.62	1.33						
				53	19	27	1		58	23	19					410	
3S/13W-13J 1 S	75	8.0	523	53	12	36	2	--	237	40	18	1	0.5	0.10	22	301	182
9-13-66				2.64	0.99	1.57	0.05		3.88	0.83	0.51	0.02					
				50	19	30	1		74	16	10					301	
3S/13W-13M 2 S	73	7.9	526	55	11	42	3	--	226	58	18	0.0	0.5	0.10	15	313	182
6- 9-66				2.74	0.90	1.83	0.08		3.70	1.21	0.51						
				49	16	33	1		68	22	9					314	
3S/13W-13P 1 S	77	7.9	513	54	11	36	2	--	235	42	17	0	0.3	0.10	22	301	180
9-13-66				2.69	0.90	1.57	0.05		3.85	0.87	0.48						
				52	17	30	1		74	17	9					300	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 CENTRAL HYDRO SUBAREA U05A5																	
3S/13W-13R 2 S	75	8.0	513	51	11	36	2	--	232	40	17	1	0.4	0.10	22	295	172
9-13-66				2.54	0.90	1.57	0.05		3.80	0.83	0.48	0.02					
				50	18	31	1		74	16	9					295	
3S/13W-15R 1 S	70	7.5	564	52	13	41	3	--	226	58	21	0.0	0.1	0.12	15		183
12-15-65				2.59	1.07	1.78	0.08		3.70	1.21	0.59						
				47	19	32	1		67	22	11					314	
3S/13W-16A 1 S	77	7.9	952	55	18	102	4	--	186	180	72	1	0.5	0.13	16	541	211
9-13-66				2.74	1.48	4.43	0.10		3.05	3.75	2.03	0.02					
				31	17	51	1		34	42	23					540	
3S/13W-16E 1 S	70	7.2	756	80	17	47	4	--	284	67	52	0.0	0.2	0.18	16		270
12-15-65				3.99	1.40	2.04	0.10		4.65	1.39	1.47						
				53	19	27	1		62	19	20					423	
	75	7.5	697	75	18	44	3	--	259	76	52	0.0	0.4	0.10	17	413	261
6- 9-66				3.74	1.48	1.91	0.08		4.25	1.58	1.47						
				52	21	26	1		58	22	20					413	
3S/13W-16K 1 S	77	7.8	607	59	15	42	3	--	229	72	28	0	0.3	0.13	22	354	209
9-13-66				2.94	1.23	1.83	0.08		3.75	1.50	0.79						
				48	20	30	1		62	25	13					354	
3S/13W-21A 1 S	77	7.8	573	57	14	43	3	--	234	68	23	1	0.4	0.13	22	346	200
9-13-66				2.84	1.15	1.87	0.08		3.84	1.42	0.65	0.02					
				48	19	31	1		65	24	11					347	
3S/13W-21B 1 S	75	7.7	542	57	12	44	3	--	232	65	25	1	0.5	0.10	23	345	192
9-20-66				2.84	0.99	1.91	0.08		3.80	1.35	0.71	0.02					
				49	17	33	1		65	23	12					345	
3S/13W-21C 6 S	75	7.8	610	58	13	54	3	--	224	86	32	1	0.4	0.13	23	381	198
9-20-66				2.89	1.07	2.35	0.08		3.67	1.79	0.90	0.02					
				45	17	37	1		58	28	14					381	
3S/13W-21R 3 S	75	8.1	501	50	11	44	3	--	213	62	22	3	0.2	0.13	24	324	170
9-20-66				2.50	0.90	1.91	0.08		3.49	1.29	0.62	0.05					
				46	17	35	1		64	24	11	1				324	
3S/13W-22H 2 S	73	7.6	595	64	13	43	3	--	223	88	25	0.2	0.4	0.10	16	363	213
6- 9-66				3.19	1.07	1.87	0.08		3.65	1.83	0.71						
				51	17	30	1		59	30	11					362	
3S/13W-22H 7 S	77	8.1	517	46	7	49	2	--	170	78	22	0.0	0.4	0.20	14	302	144
6- 9-66				2.30	0.58	2.13	0.05		2.79	1.62	0.62						
				45	11	42	1		55	32	12					302	
3S/13W-22K 1 S	75	8.0	530	48	14	45	3	--	241	35	32	0	0.5	0.13	31	328	178
9-20-66				2.40	1.15	1.96	0.08		3.95	0.73	0.90						
				43	21	35	1		71	13	16					327	
3S/13W-22Q 4 S	75	8.1	545	55	11	42	3	--	203	79	21	0.0	0.4	0.20	15	327	182
6- 9-66				2.74	0.90	1.83	0.08		3.33	1.64	0.59						
				49	16	33	1		60	29	11					326	
3S/13W-25D 4 S	75	7.5	849	100	24	60	4	--	280	149	61	0	0.4	0.13	28	564	348
9-20-66				4.99	1.97	2.61	0.10		4.59	3.10	1.72						
				52	20	27	1		49	33	18					564	
3S/13W-25G 2 S	75	7.6	855	101	24	59	4	--	280	152	59	0	0.4	0.13	26	564	351
9-20-66				5.04	1.97	2.57	0.10		4.59	3.16	1.66						
				52	20	27	1		49	34	18					563	
3S/13W-26C 1 S	70	7.7	494	39	4	56	2	--	167	55	23	0.0	0.2	0.12	14		114
12-15-65				1.95	0.33	2.43	0.05		2.74	1.15	0.65						
				41	7	51	1		60	25	14					275	
	79	8.1	480	37	6	54	2	--	158	65	24	0.0	0.5	0.10	14	280	117
6- 9-66				1.85	0.49	2.35	0.05		2.59	1.35	0.68						
				39	10	50	1		56	29	15					280	
3S/13W-26M 1 S	79	8.2	477	38	5	54	2	--	167	64	23	0.0	0.4	0.10	16	285	116
6- 9-66				1.90	0.41	2.35	0.05		2.74	1.33	0.65						
				40	9	50	1		58	28	14					285	
3S/13W-27E 2 S	75	8.1	586	61	13	40	3	--	220	75	27	0.0	0.4	0.10	16	344	206
6- 9-66				3.04	1.07	1.74	0.08		3.61	1.56	0.76						
				51	18	29	1		61	26	13					344	
3S/13W-27G 1 S	77	8.3	513	49	8	48	2	5	187	70	21	0.0	0.2	0.10	15	308	156
6- 9-66				2.45	0.66	2.09	0.05	0.17	3.06	1.46	0.59						
				47	13	40	1	3	58	28	11					310	
3S/13W-34H 2 S	64	8.0	680	61	9	60	2	0	147	60	100	0.0	0.3	0.10	--	405	189
10-29-65				3.04	0.74	2.61	0.05		2.41	1.25	2.82						
				47	11	41	1		37	19	44					365	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARD-NESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 CENTRAL HYDRO SUBAREA U05A5																	
3S/14W-22Q 1 S	75	8.0	530	48	14	47	3	--	240	41	32	1	0.4	0.10	30	335	178
9-20-66				2.40	1.15	2.04	0.08		3.93	0.85	0.90	0.02					
				42	20	36	1		69	15	16					335	
3S/14W-22R 2 S	75	7.9	536	48	14	48	3	--	238	43	34	1	0.4	0.16	27	336	178
9-20-66				2.40	1.15	2.09	0.08		3.90	0.90	0.96	0.02					
				42	20	37	1		67	16	17					336	
4S/12W- 6J 2 S	75	7.6	384	12	3	67	1	0	176	1	26	--	--	--	20	218	43
1- 4-66				0.60	0.25	2.91	0.03		2.88	0.02	0.73						
	81	8.8	382	11	1	62	1	8	167	8	25	--	--	--	20	219	32
5- 3-66				0.55	0.08	2.70	0.03	0.27	2.74	0.17	0.71						
	82	8.4	383	11	1	75	1	9	168	3	25	--	--	--	20	228	32
6-28-66				0.55	0.08	3.26	0.03	0.30	2.75	0.06	0.71						
	81	8.7	385	11	2	79	1	10	162	11	28	--	--	--	19	241	36
8- 2-66				0.55	0.16	3.43	0.03	0.33	2.66	0.23	0.79						
4S/12W- 6D 3 S	73	7.2	409	32	3	54	2	0	164	21	18	--	--	--	22	233	93
1- 4-66				1.60	0.25	2.35	0.05		2.69	0.44	0.51						
	77	8.3	405	33	4	42	2	0	170	35	17	--	--	--	20	237	99
5- 3-66				1.65	0.33	1.83	0.05		2.79	0.73	0.48						
	77	8.3	402	32	3	54	2	1	170	23	16	--	--	--	20	236	93
5-31-66				1.60	0.25	2.35	0.05	0.03	2.79	0.48	0.45						
	81	7.8	402	32	3	48	2	0	170	25	23	--	--	--	21	239	93
6-28-66				1.60	0.25	2.09	0.05		2.79	0.52	0.65						
	81	8.2	407	33	4	51	3	0	166	28	18	--	--	--	20	240	99
8- 2-66				1.65	0.33	2.22	0.08		2.72	0.58	0.51						
		8.0	410	25	4	57	4	0	166	21	19	--	--	--	20	226	79
11-30-65				1.25	0.33	2.48	0.10		2.72	0.44	0.54						
		8.2	413	27	6	53	3	0	168	19	19	--	--	--	21	251	92
2- 1-66				1.35	0.49	2.30	0.08		2.75	0.40	0.54						
	73	7.6	417	34	3	52	2	0	171	22	19	--	--	--	23	248	98
3- 1-66				1.70	0.25	2.26	0.05		2.80	0.46	0.54						
	75	8.0	421	33	4	52	2	0	171	25	21	--	--	--	20	257	99
3-29-66				1.65	0.33	2.26	0.05		2.80	0.52	0.59						
4S/12W- 6J 1 S		8.6	407	10	1	79	1	6	183	2	30	--	--	--	20	253	29
2- 1-66				0.50	0.08	3.43	0.03	0.20	3.00	0.04	0.85						
4S/12W- 6J 2 S		7.9	378	12	0	80	2	0	178	2	27	--	--	--	19	234	30
11-30-65				0.60		3.48	0.05		2.92	0.04	0.76						
		8.6	381	12	1	72	1	6	167	0	27	--	--	--	20	243	34
2- 1-66				0.60	0.08	3.13	0.03	0.20	2.74		0.76						
	75	8.7	387	11	1	80	1	7	169	1	28	--	--	--	19	249	32
3-29-66				0.55	0.08	3.48	0.03	0.23	2.77	0.02	0.79						
4S/12W-10A 2 S		8.3	381	49	7	25	3	0	222	16	10	0.0	0.4	0.05	--	208	152
10-29-65				2.45	0.58	1.09	0.08		3.64	0.33	0.28						
				58	14	26	2		86	8	7					220	
4S/12W-10G 1 S		8.1	330	36	6	26	3	0	180	17	8	0.0	0.7	0.05	--	205	115
10-29-65				1.80	0.49	1.13	0.08		2.95	0.35	0.23						
				51	14	32	2		84	10	7					185	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 CENTRAL HYDRO SUBAREA U05A5																	
4S/12W-13C 3 S	75	8.2	379	45	5	27	2	0	204	16	6	--	--	--	23	225	133
5- 3-66				2.25	0.41	1.17	0.05		3.34	0.33	0.17						
	75	8.2	371	42	5	37	2	0	201	8	5	--	--	--	21	220	126
5-31-66				2.10	0.41	1.61	0.05		3.29	0.17	0.14						
4S/12W-13D 3 S	79	7.8	372	45	5	31	3	0	212	9	5	--	--	--	22	225	133
6-28-66				2.25	0.41	1.35	0.08		3.47	0.19	0.14						
	79	8.1	372	43	6	23	3	0	206	13	7	--	--	--	22	219	132
8- 2-66				2.15	0.49	1.00	0.08		3.38	0.27	0.20						
4S/12W-13N 2 S	77	8.6	392	22	4	50	2	5	167	26	11	--	--	--	19	222	72
5- 3-66				1.10	0.33	2.17	0.05	0.17	2.74	0.54	0.31						
	77	8.5	395	22	3	64	2	4	171	25	5	--	--	--	19	230	68
5-31-66				1.10	0.25	2.78	0.05	0.13	2.80	0.52	0.14						
	81	8.2	389	21	3	59	2	0	178	26	14	--	--	--	19	231	65
6-28-66				1.05	0.25	2.57	0.05		2.92	0.54	0.39						
	81	8.6	390	20	3	66	2	7	159	32	13	--	--	--	19	240	63
8- 2-66				1.00	0.25	2.87	0.05	0.23	2.61	0.67	0.37						
	73	7.7	404	24	3	60	2	0	177	22	14	--	--	--	21	244	73
3- 1-66				1.20	0.25	2.61	0.05		2.90	0.46	0.39						
	75	8.3	396	22	2	63	2	0	173	21	13	--	--	--	19	242	63
3-29-66				1.10	0.16	2.74	0.05		2.84	0.44	0.37						
4S/12W-14A 2 S	75	8.1	399	49	7	32	3	0	206	15	5	--	--	--	21	233	152
5-31-66				2.45	0.58	1.39	0.08		3.38	0.31	0.14						
	79	8.0	393	48	6	24	3	0	194	21	8	--	--	--	20	227	145
8- 2-66				2.40	0.49	1.04	0.08		3.18	0.44	0.23						
4S/12W-14C 2 S	78	9.0	328	6	1	51	1	13	136	5	17	--	--	--	18	179	19
5- 3-66				0.30	0.08	2.22	0.03	0.43	2.23	0.10	0.48						
	77	9.0	329	6	2	71	1	15	134	1	16	--	--	--	18	195	23
5-31-66				0.30	0.16	3.09	0.03	0.50	2.20	0.02	0.45						
	81	8.6	325	6	1	73	1	14	137	2	19	--	--	--	19	202	19
6-28-66				0.30	0.08	3.17	0.03	0.47	2.25	0.04	0.54						
	81	8.9	326	6	2	75	1	16	124	10	21	--	--	--	18	211	23
8- 2-66				0.30	0.16	3.26	0.03	0.53	2.03	0.21	0.59						
4S/12W-14C 5 S	73	7.0	326	30	4	31	2	0	162	4	6	--	--	--	20	178	92
1- 4-66				1.50	0.33	1.35	0.05		2.66	0.08	0.17						
4S/12W-14A 2 S		7.8	392	48	5	34	4	0	196	14	9	--	--	--	20	254	141
11-30-65				2.40	0.41	1.48	0.10		3.21	0.29	0.25						
		7.9	392	41	8	29	3	0	196	15	8	--	--	--	20	237	136
2- 1-66				2.05	0.66	1.26	0.08		3.21	0.31	0.23						
4S/12W-14A 2 S	75	8.0	394	49	7	28	3	0	205	13	7	--	--	--	20	238	152
3-29-66				2.45	0.58	1.22	0.08		3.36	0.27	0.20						
4S/12W-14C 2 S		8.4	320	5	0	73	2	0	151	5	22	--	--	--	17	213	13
11-30-65				0.25		3.17	0.05		2.47	0.10	0.62						
	75	8.1	322	33	4	36	2	0	171	10	7	--	--	--	19	207	99
3-29-66				1.65	0.33	1.57	0.05		2.80	0.21	0.20						

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 CENTRAL HYDRO SUBAREA U05A5																	
4S/12W-14C 5 S		8.1	334	31	7	35	2	0	168	6	7	--	--	--	20	221	107
2- 1-66				1.55	0.58	1.52	0.05		2.75	0.12	0.20						
	73	7.6	340	34	4	34	3	0	173	14	8	--	--	--	22	201	102
3- 1-66				1.70	0.33	1.48	0.08		2.84	0.29	0.23						
4S/12W-16R 1 S	77	8.6	315	19	3	41	1	5	150	16	9	--	--	--	18	188	60
5- 3-66				0.95	0.25	1.78	0.03	0.17	2.46	0.33	0.25						
	79	8.4	317	18	2	48	2	5	154	2	16	--	--	--	19	189	53
6-28-66				0.90	0.16	2.09	0.05	0.17	2.52	0.04	0.45						
	79	8.5	311	19	3	48	2	6	143	7	13	--	--	--	18	186	60
8- 2-66				0.95	0.25	2.09	0.05	0.20	2.34	0.15	0.37						
		8.4	313	21	3	47	2	3	151	6	12	--	--	--	18	202	65
2- 1-66				1.05	0.25	2.04	0.05	0.10	2.47	0.12	0.34						
	73	7.8	317	20	2	47	2	0	157	3	17	--	--	--	20	189	58
3- 1-66				1.00	0.16	2.04	0.05		2.57	0.06	0.48						
	73	7.8	317	20	2	47	2	0	157	3	17	--	--	--	20	189	58
3- 1-66				1.00	0.16	2.04	0.05		2.57	0.06	0.48						
	75	8.3	316	18	3	46	1	0	154	6	12	--	--	--	18	192	58
3-29-66				0.90	0.25	2.00	0.03		2.52	0.12	0.34						
4S/12W-17E 1 S	81	8.7	364	10	2	75	1	10	163	11	22	--	--	--	18	230	33
8- 2-66				0.50	0.16	3.26	0.03	0.33	2.67	0.23	0.62						
4S/12W-17P 3 S	77	8.7	335	12	3	67	1	7	151	1	21	--	--	--	17	203	43
5-31-66				0.60	0.25	2.91	0.03	0.23	2.47	0.02	0.59						
	81	8.2	328	12	2	65	1	0	162	6	26	--	--	--	17	209	38
6-28-66				0.60	0.16	2.83	0.03		2.66	0.12	0.73						
4S/12W-20J 4 S	73	7.9	353	7	3	75	1	0	218	2	18	--	--	--	19	233	30
1- 4-66				0.35	0.25	3.26	0.03		3.57	0.04	0.51						
	78	8.8	420	14	3	89	1	11	205	14	14	--	--	--	18	266	48
5- 3-66				0.70	0.25	3.87	0.03	0.37	3.36	0.29	0.39						
	77	8.7	425	8	2	92	1	11	212	8	15	--	--	--	18	261	28
5-31-66				0.40	0.16	4.00	0.03	0.37	3.47	0.17	0.42						
	81	8.1	421	8	1	87	1	0	234	6	20	--	--	--	18	258	24
6-28-66				0.40	0.08	3.78	0.03		3.84	0.12	0.56						
	81	8.7	422	8	1	95	1	11	205	12	19	--	--	--	17	267	24
8- 2-66				0.40	0.08	4.13	0.03	0.37	3.36	0.25	0.54						
		7.9	396	8	1	93	2	0	209	8	18	--	--	--	17	267	24
11-30-65				0.40	0.08	4.04	0.05		3.43	0.17	0.51						
		8.6	415	7	2	87	2	7	206	3	19	--	--	--	18	291	26
2- 1-66				0.35	0.16	3.78	0.05	0.23	3.38	0.06	0.54						
4S/12W-20J 4 S	75	8.4	414	7	2	80	1	2	215	2	20	--	--	--	18	262	26
3-29-66				0.35	0.16	3.48	0.03	0.07	3.52	0.04	0.56						
4S/12W-23K 3 S	78	8.8	357	10	4	53	1	19	118	11	10	--	--	--	17	184	42
5- 3-66				0.50	0.33	2.30	0.03	0.63	1.93	0.23	0.28						
	81	8.7	361	11	3	69	1	9	138	22	13	--	--	--	17	213	40
8- 2-66				0.55	0.25	3.00	0.03	0.30	2.26	0.46	0.37						

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 CENTRAL HYDRO SUBAREA U05A5																	
4S/12W-23C 1 S	77	8.6	338	19	3	45	1	6	152	17	10	--	--	--	18	195	60
5- 3-66				0.95	0.25	1.96	0.03	0.20	2.49	0.35	0.28						
4S/12W-23K 3 S	73	8.8	359	10	2	65	1	1	155	20	16	--	--	--	18	218	33
3- 1-66				0.50	0.16	2.83	0.03	0.03	2.54	0.42	0.45						
	73	8.8	359	10	2	65	1	1	155	20	16	--	--	--	18	218	33
3- 1-66				0.50	0.16	2.83	0.03	0.03	2.54	0.42	0.45						
	75	8.8	355	10	2	63	1	7	135	19	12	--	--	--	16	220	33
3-29-66				0.50	0.16	2.74	0.03	0.23	2.21	0.40	0.34						
4S/12W-24M 2 S	73	7.7	394	23	3	60	2	0	177	29	11	--	--	--	20	236	70
3- 1-66				1.15	0.25	2.61	0.05		2.90	0.60	0.31						
4S/12W-26F 2 S	79	8.2	372	11	1	67	1	0	160	24	13	--	--	--	16	237	32
3-16-66				0.55	0.08	2.91	0.03		2.62	0.50	0.37						
4S/12W-26M 1 S	85	8.2	318	11	1	56	1	0	157	15	13	--	--	--	18	218	32
3-16-66				0.55	0.08	2.43	0.03		2.57	0.31	0.37						
4S/12W-28H12 S	75	9.2	377	5	1	75	0	22	169	2	17	--	--	--	18	224	17
1- 4-66				0.25	0.08	3.26		0.73	2.77	0.04	0.48						
	78	8.9	371	5	0	70	1	13	178	4	15	--	--	--	18	215	13
5- 3-66				0.25		3.04	0.03	0.43	2.92	0.08	0.42						
	78	8.9	367	5	2	84	1	14	178	4	13	--	--	--	18	229	21
5-31-66				0.25	0.16	3.65	0.03	0.47	2.92	0.08	0.37						
	81	8.9	370	4	2	79	1	16	172	8	18	--	--	--	17	229	18
6-28-66				0.20	0.16	3.43	0.03	0.53	2.82	0.17	0.51						
	82	8.9	374	5	2	83	1	17	167	6	16	--	--	--	17	230	21
8- 2-66				0.25	0.16	3.61	0.03	0.57	2.74	0.12	0.45						
		7.9	365	7	0	90	2	0	198	10	17	--	--	--	18	247	18
11-30-65				0.35		3.91	0.05		3.25	0.21	0.48						
		8.9	375	10	0	75	1	11	177	0	17	--	--	--	18	252	25
2- 1-66				0.50		3.26	0.03	0.37	2.90		0.48						
4S/12W-31E 1 S	--	7.8	3730	430	58	240	7	0	129	180	1100	0	--	--	--	2140	1313
5- 9-66				21.46	4.77	10.44	0.18		2.11	3.75	31.02						
				58	13	28			6	10	84					2078	
4S/12W-34N 1 S	--	8.4	312	7	1	77	1	0	170	3	27	0	--	--	--	286	22
10-13-65				0.35	0.08	3.35	0.03		2.79	0.06	0.76						
				9	2	88	1		77	2	21					200	
4S/12W-35A 1 S	--	7.9	9800	1110	148	770	10	0	84	379	3230	0	--	--	--	5730	3381
10- 1-65				55.39	12.17	33.48	0.26		1.38	7.89	91.09						
				55	12	33			1	8	91					5688	
4S/12W-35J 1 S	--	8.2	33800	640	1000	8400	204	0	193	2270	15500	0	--	--	--	28200	5714
3-29-66				31.94	82.24	365.23	5.22		3.16	47.26	437.10						
				7	17	75	1		1	10	90					28109	
4S/12W-35A 1 S	--	7.7	12200	1350	181	1160	17	0	125	527	4280	0	--	--	--	7640	4116
5-11-66				67.37	14.89	50.44	0.43		2.05	10.97	120.70						
				51	11	38			2	8	90					7576	
4S/12W-35J 2 S	--	8.1	35200	798	1050	8800	168	0	216	2350	16600	0	--	--	--	30000	6314
3-29-66				39.82	86.35	382.62	4.30		3.54	48.93	468.12						
				8	17	75	1		1	9	90					29872	
4S/12W-35J 3 S	--	8.4	412	38	5	55	2	0	209	39	28	0	--	--	--	376	116
3-29-66				1.90	0.41	2.39	0.05		3.43	0.81	0.79						
				40	9	50	1		68	16	16					270	
4S/12W-35J 4 S	--	8.0	34200	808	1000	8280	92	0	247	2160	15600	0	--	--	--	28200	6133
3-29-66				40.32	82.24	360.01	2.35		4.05	44.97	439.92						
				8	17	74			1	9	90					28061	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNIT U05A0 / CENTRAL HYDRO SUBAREA U05A5																	
4S/12W-35J 5 S	--	8.3	24900	969	572	4960	30	0	164	1400	10000	0	--	--	--	18100	4773
2- 3-66				48.35	47.04	215.66	0.77		2.69	29.15	282.00						
				16	15	69			1	9	90					18012	
4S/12W-35J 6 S	--	8.0	27800	1290	616	5700	20	0	155	1620	11600	0	--	--	--	21000	5756
2- 3-66				64.37	50.66	247.84	0.51		2.54	33.73	327.12						
				18	14	68			1	9	90					20922	
4S/12W-35J 7 S	--	8.1	8980	530	96	1365	11	0	124	458	2920	0	--	--	--	5510	1719
2-14-66				26.45	7.90	59.35	0.28		2.03	9.54	82.34						
				28	8	63			2	10	88					5441	
4S/12W-35K 6 S	--	8.4	660	53	6	81	3	0	194	76	70	0	--	--	--	485	157
12- 3-65				2.64	0.49	3.52	0.08		3.18	1.58	1.97						
				39	7	52	1		47	23	29					384	
	--	7.9	490	36	5	62	2	0	194	39	36	0	--	--	--	373	111
4-12-66				1.80	0.41	2.70	0.05		3.18	0.81	1.02						
				36	8	54	1		63	16	20					275	
4S/12W-35K 7 S	--	8.1	2840	305	19	243	3	0	120	141	794	0	--	--	--	1630	840
12- 3-65				15.22	1.56	10.57	0.08		1.97	2.94	22.39						
				55	6	39			7	11	82					1564	
	--	8.1	3380	350	25	284	4	0	118	161	958	0	--	--	--	1900	977
4-12-66				17.47	2.06	12.35	0.10		1.93	3.35	27.02						
				55	6	39			6	10	84					1840	
4S/12W-35P 2 S	75	8.1	898	51	5	140	2	0	133	306	22	0	--	--	--	659	148
10-25-65				2.54	0.41	6.09	0.05		2.18	6.37	0.62						
				28	5	67	1		24	69	7					591	
	--	8.3	973	59	5	152	2	0	124	347	25	0	--	--	--	715	168
2-16-66				2.94	0.41	6.61	0.05		2.03	7.22	0.71						
				29	4	66			20	72	7					651	
4S/12W-35H 1 S	--	8.4	346	11	2	68	0	0	158	30	13	0	--	--	--	281	36
10- 4-65				0.55	0.16	2.96			2.59	0.62	0.37						
				15	4	81			72	17	10					202	
4S/12W-35Q 1 S	--	8.3	4590	114	68	764	12	0	146	244	1320	0	--	--	--	2670	564
1-28-66				5.69	5.59	33.22	0.31		2.39	5.08	37.22						
				13	12	74	1		5	11	83					2594	
4S/12W-35H 1 S	--	8.3	345	11	1	66	0	0	158	30	18	0	--	--	--	284	32
5- 4-66				0.55	0.08	2.87			2.59	0.62	0.51						
				16	2	82			70	17	14					204	
4S/12W-35H 2 S	--	7.9	4130	523	63	205	7	0	114	77	1280	3.0	--	--	--	2270	1565
10- 1-65				26.10	5.18	8.91	0.18		1.87	1.60	36.10	0.05					
				65	13	22			5	4	91					2214	
4S/12W-35Q 2 S	--	8.0	11100	246	194	2050	31	0	182	663	3560	0	--	--	--	6930	1413
1-26-66				12.28	15.95	89.13	0.79		2.98	13.80	100.39						
				10	13	75	1		3	12	86					6833	
4S/12W-35H 4 S	--	8.3	33800	1100	766	6480	20	0	162	1790	12800	0	--	--	--	23100	5899
10- 1-65				54.89	63.00	281.75	0.51		2.66	37.27	360.96						
				14	16	70			1	9	90					23036	
	--	7.9	34700	1000	841	7400	20	0	173	1980	14000	0	--	--	--	25400	5958
5- 4-66				49.90	69.16	321.75	0.51		2.84	41.22	394.80						
				11	16	73			1	9	90					25326	
4S/12W-35H 5 S	75	8.5	380	12	1	73	1	0	167	36	14	0	--	--	--	304	34
10- 4-65				0.60	0.08	3.17	0.03		2.74	0.75	0.39						
				15	2	82	1		71	19	10					219	
	--	8.5	373	12	1	70	1	5	153	35	16	0	--	--	--	292	34
2-28-66				0.60	0.08	3.04	0.03	0.17	2.51	0.73	0.45						
				16	2	81	1	4	65	19	12					215	
4S/12W-35R10 S	--	8.2	36200	346	917	7920	272	0	427	2060	14000	0	--	--	--	25900	4638
5- 5-66				17.27	75.41	344.36	6.96		7.00	42.89	394.80						
				4	17	78	2		2	10	89					25725	
4S/12W-35R11 S	--	8.1	29800	496	818	7200	100	0	195	1930	13100	0	--	--	--	23800	4605
3-28-66				24.75	67.27	313.06	2.56		3.20	40.18	369.42						
				6	17	77	1		1	10	89					23740	
4S/12W-35R12 S	--	8.4	41000	464	1200	9800	320	0	245	2530	18200	0	--	--	--	32800	6097
3-28-66				23.15	98.69	426.10	8.18		4.02	52.67	513.24						
				4	18	77	1		1	9	90					32634	
4S/12W-35R13 S	--	8.3	18600	1440	354	2800	8	0	106	1040	6960	0	--	--	--	12700	5053
3-28-66				71.86	29.11	121.74	0.20		1.74	21.65	196.27						
				32	13	55			1	10	89					12654	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE										MILLIGRAMS PER LITER			
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 CENTRAL HYDRO SUBAREA U05A5																	
4S/12W-35R14 S	--	8.3	35500	996	977	7920	72	0	269	2120	15300	0	--	--	--	27700	6508
3-28-66				49.70	80.35	344.36	1.84		4.41	44.14	431.46						
				10	17	72			1	9	90					27517	
4S/12W-35C 1 S	78	8.3	455	37	5	59	2	0	189	28	24	--	--	--	20	278	113
3-16-66				1.85	0.41	2.57	0.05		3.10	0.58	0.68						
4S/12W-35R16 S	--	8.4	428	43	5	46	2	0	206	33	14	0	--	--	--	349	128
10-22-65				2.15	0.41	2.00	0.05		3.38	0.69	0.39						
				47	9	43	1		76	15	9					244	
	--	8.4	419	41	6	49	2	0	207	38	26	0	--	--	--	369	127
3-28-66				2.05	0.49	2.13	0.05		3.39	0.79	0.73						
				43	10	45	1		69	16	15					264	
4S/12W-35R17 S	--	7.9	13300	688	258	2200	24	0	173	663	4800	0	--	--	--	8810	2780
3-31-66				34.33	21.22	95.66	0.61		2.84	13.80	135.36						
				23	14	63			2	9	89					8718	
4S/12W-35R18 S	--	8.1	40300	678	1020	8600	272	0	239	2280	15800	0	--	--	--	28900	5890
10- 6-65				33.83	83.88	373.93	6.96		3.92	47.47	445.56						
				7	17	75	1		1	10	90					28768	
	--	8.0	22600	299	462	4900	120	0	215	1330	8440	0	--	--	--	15800	2648
2- 1-66				14.92	37.99	213.05	3.07		3.52	27.69	238.01						
				6	14	79	1		1	10	88					15657	
4S/12W-36N 2 S	--	7.9	36000	587	934	8000	528	0	219	2130	14900	0	--	--	--	27300	5309
2-11-66				29.29	76.81	347.84	13.50		3.59	44.35	420.18						
				6	16	74	3		1	9	90					27187	
4S/12W-36N 3 S	--	8.3	37600	569	1030	8800	228	0	284	2240	15900	0	--	--	--	29100	5660
2-11-66				28.39	84.71	382.62	5.83		4.65	46.64	448.38						
				6	17	76	1		1	9	90					28907	
4S/12W-36N 4 S	--	8.5	417	43	6	46	2	0	200	30	20	0	--	--	--	346	132
2-11-66				2.15	0.49	2.00	0.05		3.28	0.62	0.56						
				46	10	43	1		74	14	13					245	
4S/12W-36C 1 S	77	7.7	469	41	6	56	2	0	185	33	21	--	--	--	16	350	127
3-16-66				2.05	0.49	2.43	0.05		3.03	0.69	0.59						
4S/12W-36M 1 S	--	8.7	371	17	2	65	1	10	145	37	15	0	--	--	--	291	51
3-25-66				0.85	0.16	2.83	0.03	0.33	2.38	0.77	0.42						
				22	4	73	1	8	61	20	11					218	
4S/12W-36M 2 S	--	8.3	32700	1120	865	7440	32	0	182	2050	14400	0	--	--	--	26100	6357
3-25-66				55.89	71.14	323.49	0.82		2.98	42.68	406.08						
				12	16	72			1	9	90					25996	
4S/12W-36M 3 S	--	8.7	424	36	5	55	1	9	176	42	22	0	--	--	--	346	111
3-25-66				1.80	0.41	2.39	0.03	0.30	2.88	0.87	0.62						
				39	9	52	1	6	62	19	13					257	
4S/12W-36M 4 S	--	8.6	446	4	7	46	1	10	189	40	18	0	--	--	--	354	39
3-25-66				0.20	0.58	2.00	0.03	0.33	3.10	0.83	0.51						
				7	21	71	1	7	65	17	11					219	
4S/12W-36N 6 S	--	7.8	30700	1070	687	6375	38	0	194	1760	12400	0	--	--	--	22500	5499
12- 6-65				53.39	56.50	277.19	0.97		3.18	36.64	349.68						
				14	15	71			1	9	90					22425	
	--	7.8	17800	326	283	3580	20	0	180	1045	6100	0	--	--	--	11500	1979
4-25-66				16.27	23.27	155.66	0.51		2.95	21.76	172.02						
				8	12	80			1	11	87					11443	
4S/12W-36N 7 S	--	8.5	451	17	3	80	1	0	163	39	39	0	--	--	--	342	55
12- 2-65				0.85	0.25	3.48	0.03		2.67	0.81	1.10						
				18	5	75	1		58	18	24					259	
	--	8.2	373	15	1	62	1	0	163	37	10	0	--	--	--	288	42
4-14-66				0.75	0.08	2.70	0.03		2.67	0.77	0.28						
				21	2	76	1		72	21	8					206	
4S/12W-36P 3 S	--	8.9	450	36	6	56	2	23	148	46	22	0	--	--	--	339	115
2-18-66				1.80	0.49	2.43	0.05	0.77	2.43	0.96	0.62						
				38	10	51	1	16	51	20	13					264	
4S/12W-36P 4 S	--	8.5	575	53	9	57	2	0	185	55	60	0	--	--	--	421	169
2-17-66				2.64	0.74	2.48	0.05		3.03	1.15	1.69						
				45	13	42	1		52	20	29					327	
4S/12W-36P 5 S	--	8.2	5420	206	49	940	9	0	162	479	1480	0	--	--	--	3330	716
2-18-66				10.28	4.03	40.87	0.23		2.66	9.97	41.74						
				19	7	74			5	18	77					3243	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 CENTRAL HYDRO SUBAREA U05A5																	
4S/12W-36P 6 S	--	8.5	388	17	3	60	2	0	164	37	17	0	--	--	--	299	55
2-17-66				0.85	0.25	2.61	0.05		2.69	0.77	0.48						
				23	7	69	1		68	20	12					217	
5S/12W- 1C 1 S	--	8.4	431	33	6	55	2	0	184	37	26	0	--	--	--	343	107
2- 2-66				1.65	0.49	2.39	0.05		3.02	0.77	0.73						
				36	11	52	1		67	17	16					249	
5S/12W- 1C 2 S	--	8.6	373	19	3	65	3	12	141	33	15	0	--	--	--	290	60
2- 2-66				0.95	0.25	2.83	0.08	0.40	2.31	0.69	0.42						
				23	6	69	2	10	60	18	11					219	
5S/12W- 1D 1 S	72	8.4	424	38	7	53	2	0	199	37	15	0	--	--	--	352	124
10-18-65				1.90	0.58	2.30	0.05		3.26	0.77	0.42						
				39	12	48	1		73	17	9					250	
5S/12W- 1D 2 S	--	8.2	384	26	7	50	2	0	165	38	15	0	--	--	--	303	94
10-11-65				1.30	0.58	2.17	0.05		2.70	0.79	0.42						
				32	14	53	1		69	20	11					219	
5S/12W- 1D 3 S	--	8.2	425	32	6	52	2	0	183	37	21	0	--	--	--	332	105
10- 7-65				1.60	0.49	2.26	0.05		3.00	0.77	0.59						
				36	11	51	1		69	18	14					240	
	--	8.3	401	29	5	62	2	0	179	41	24	0	--	--	--	342	93
4- 7-66				1.45	0.41	2.70	0.05		2.93	0.85	0.68						
				31	9	59	1		66	19	15					251	
5S/12W- 1D 4 S	75	8.6	376	18	2	62	2	0	162	34	15	0	--	--	--	294	53
10- 1-65				0.90	0.16	2.70	0.05		2.66	0.71	0.42						
				24	4	71	1		70	19	11					213	
	--	8.3	374	20	2	62	1	0	165	40	15	0	--	--	--	305	58
4- 5-66				1.00	0.16	2.70	0.03		2.70	0.83	0.42						
				26	4	69	1		68	21	11					221	
5S/12W- 1E 4 S	--	8.7	617	51	10	76	2	18	200	37	76	0	--	--	--	470	168
2-25-66				2.54	0.82	3.30	0.05	0.60	3.28	0.77	2.14						
				38	12	49	1	9	48	11	32					368	
5S/12W- 1E 5 S	--	8.5	9060	594	122	1250	24	0	299	112	2080	0	--	--	--	5480	1985
2-15-66				29.64	10.03	54.35	0.61		4.90	2.33	58.66						
				31	11	57	1		7	4	89					4329	
5S/12W- 1E 6 S	--	8.1	8500	616	131	1000	13	0	198	102	2840	0	--	--	--	4900	2077
2-23-66				30.74	10.77	43.48	0.33		3.25	2.12	80.09						
				36	13	51			4	2	94					4799	
5S/12W- 1E 7 S	--	8.7	373	16	2	70	3	12	136	35	15	0	--	--	--	289	48
2-15-66				0.80	0.16	3.04	0.08	0.40	2.23	0.73	0.42						
				20	4	75	2	11	59	19	11					220	
5S/12W- 1G 2 S	--	8.3	419	39	8	45	1	0	204	40	15	0	--	--	--	352	131
4- 4-66				1.95	0.66	1.96	0.03		3.34	0.83	0.42						
				42	14	43	1		73	18	9					248	
5S/12W- 1G 3 S	--	8.3	364	19	2	62	2	0	160	40	14	0	--	--	--	299	56
10-27-65				0.95	0.16	2.70	0.05		2.62	0.83	0.39						
				25	4	70	1		68	22	10					218	
	--	8.3	356	19	2	60	1	0	158	37	14	0	--	--	--	291	56
3-29-66				0.95	0.16	2.61	0.03		2.59	0.77	0.39						
				25	4	70	1		69	21	10					211	
5S/12W- 2B 9 S	--	8.1	1740	150	19	186	10	0	134	225	368	0	--	--	--	1090	453
5-12-66				7.49	1.56	8.09	0.26		2.20	4.68	10.38						
				43	9	46	1		13	27	60					1024	
5S/12W- 2C 8 S	--	8.2	2010	227	58	180	7	0	226	790	133	8.0	--	--	--	1630	806
10-20-65				11.33	4.77	7.83	0.18		3.70	16.45	3.75	0.13					
				47	20	32	1		15	68	16	1				1514	
5S/12W- 2M 1 S	--	8.2	365	8	2	80	2	0	211	7	16	0	--	--	--	327	28
10- 8-65				0.40	0.16	3.48	0.05		3.46	0.15	0.45						
				10	4	85	1		85	4	11					219	
5S/12W- 2A 4 S	--	8.1	1220	90	31	128	5	0	150	341	119	0	--	--	--	864	352
3-24-66				4.49	2.55	5.57	0.13		2.46	7.10	3.36						
				35	20	44	1		19	55	26					788	
5S/12W- 2A 5 S	--	8.1	1220	97	29	124	4	0	147	346	118	0	--	--	--	865	361
3-24-66				4.84	2.38	5.39	0.10		2.41	7.20	3.33						
				38	19	42	1		19	56	26					790	
5S/12W- 2A 7 S	--	7.9	1230	94	34	128	5	0	155	348	120	1	--	--	--	885	375
5-13-66				4.69	2.80	5.57	0.13		2.54	7.25	3.38	0.02					
				36	21	42	1		19	55	26					806	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
COASTAL PL OF LA CO HYDRO SUBUNITU05A0 CENTRAL HYDRO SUBAREA U05A5																	
5S/12W- 2A 9 S	--	8.4	926	95	14	88	2	0	158	232	81	0	--	--	--	670	295
3-24-66				4.74	1.15	3.83	0.05		2.59	4.83	2.28						
				49	12	39	1		27	50	24					590	
5S/12W- 2A10 S	--	8.3	1220	116	19	128	3	0	145	348	118	0	--	--	--	877	368
3-23-66				5.79	1.56	5.57	0.08		2.38	7.25	3.33						
				45	12	43	1		18	56	26					803	
5S/12W- 2A11 S	--	8.3	17800	874	336	3180	10	0	171	1020	6530	0	--	--	--	12100	3565
3-22-66				43.61	27.63	138.27	0.26		2.80	21.24	184.15						
				21	13	66			1	10	88					12034	
5S/12W- 2A12 S	--	8.6	367	14	2	68	1	0	160	37	14	0	--	--	--	295	43
3-21-66				0.70	0.16	2.96	0.03		2.62	0.77	0.39						
				18	4	77	1		69	20	10					215	
5S/12W- 2A15 S	--	8.3	1260	81	33	142	3	0	141	346	131	0	--	--	--	877	338
3-18-66				4.04	2.71	6.17	0.08		2.31	7.20	3.69						
				31	21	47	1		18	55	28					805	
	--	8.1	1220	83	32	143	3	0	146	353	124	0	--	--	--	885	339
5- 3-66				4.14	2.63	6.22	0.08		2.39	7.35	3.50						
				32	20	48	1		18	56	26					810	
5S/12W- 2A16 S	--	8.5	1140	106	18	120	8	0	140	321	108	0	--	--	--	820	339
3-17-66				5.29	1.48	5.22	0.20		2.29	6.68	3.05						
				43	12	43	2		19	56	25					750	
	--	8.0	8880	874	130	930	8	0	116	532	2910	0	--	--	--	5500	2717
3-17-66				43.61	10.69	40.44	0.20		1.90	11.08	82.06						
				46	11	43			2	12	86					5441	
	--	7.1	13600	1270	146	1660	18	0	100	646	4720	0	--	--	--	8560	3772
5- 2-66				63.37	12.01	72.18	0.46		1.64	13.45	133.10						
				43	8	49			1	9	90					8509	
5S/12W- 2H12 S	--	7.9	20200	920	416	3380	26	0	237	951	7180	0	--	--	--	13100	4009
10-11-65				45.91	34.21	146.96	0.66		3.88	19.80	202.48						
				20	15	65			2	9	90					12990	
5S/12W- 2J 2 S	75	8.2	482	10	3	88	1	0	188	8	60	--	--	--	18	284	38
3-16-66				0.50	0.25	3.83	0.03		3.08	0.17	1.69						
5S/12W- 2J 3 S	76	7.5	9500	760	229	2125	295	0	177	459	5475	--	--	--	16	11094	2840
3-16-66				37.92	18.83	92.40	7.54		2.90	9.56	154.40						
	77	7.3	9650	767	229	3050	60	0	177	467	5625	--	--	--	16	11306	2857
3-16-66				38.27	18.83	132.61	1.53		2.90	9.72	158.63						
5S/12W- 2J 4 S	76	7.9	2940	73	32	590	9	0	183	81	950	--	--	--	18	1972	314
3-16-66				3.64	2.63	25.65	0.23		3.00	1.69	26.79						
5S/12W- 2R 1 S	--	8.3	24000	963	506	4475	68	0	242	1080	9240	0	--	--	--	16600	4487
2-14-66				48.05	41.61	194.57	1.74		3.97	22.49	260.57						
				17	15	68	1		1	8	91					16451	
5S/12W- 2R 3 S	--	8.2	21300	859	416	3600	26	0	210	761	7680	0	--	--	--	13600	3857
10-11-65				42.86	34.21	156.53	0.66		3.44	15.84	216.58						
				18	15	67			1	7	92					13445	
5S/12W- 3J 1 S	--	8.5	859	25	7	149	4	0	299	2	130	0	--	--	--	618	92
10- 8-65				1.25	0.58	6.48	0.10		4.90	0.04	3.67						
				15	7	77	1		57		43					464	
	--	8.3	836	25	7	150	3	0	305	0	126	0	--	--	--	618	92
5-10-66				1.25	0.58	6.52	0.08		5.00		3.55						
				15	7	77	1		58		42					461	
5S/12W-11G 5 S	--	8.5	502	18	3	104	3	0	315	10	14	0	--	--	--	467	58
10- 4-65				0.90	0.25	4.52	0.08		5.16	0.21	0.39						
				16	4	79	1		90	4	7					307	
5S/12W-11G 3 S	--	7.9	12800	742	202	1860	17	0	147	247	4510	0	--	--	--	7730	2684
1-19-66				37.03	16.61	80.87	0.43		2.41	5.14	127.18						
				27	12	60			2	4	94					7650	
5S/12W-11G 4 S	--	7.6	24600	701	644	4600	20	0	300	947	9320	0	--	--	--	576	4401
1-19-66				34.98	52.96	200.01	0.51		4.92	19.72	262.82						
				12	18	69			2	7	91					16380	
5S/12W-11J 2 S	--	8.4	554	10	5	110	2	0	209	23	70	0	--	--	--	429	46
10-13-65				0.50	0.41	4.78	0.05		3.43	0.48	1.97						
				9	7	83	1		58	8	34					323	

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ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C 105C COMP	HARDNESS CACO3
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
CENTRAL HYDRO SUBAREA U05A5																	
5S/12W-11J 3 S	--	8.3	756	27	4	133	2	0	278	5	107	0	--	--	--	556	84
10-13-65				1.35	0.33	5.78	0.05		4.56	0.10	3.02						
				18	4	77	1		59	1	39					415	
5S/12W-12F 2 S	--	8.6	400	10	1	90	1	0	236	10	16	0	--	--	--	363	29
10- 6-65				0.50	0.08	3.91	0.03		3.87	0.21	0.45						
				11	2	87	1		85	5	10					244	
5S/12W-12M 1 S	--	8.8	412	10	2	86	1	16	215	8	16	0	--	--	--	357	33
3-24-66				0.50	0.16	3.74	0.03	0.53	3.52	0.17	0.45						
				11	4	84	1	11	75	4	10					245	
SAN FERNANDO HYDRO SUBAREA U05B1																	
2N/14W-30A 3 S	--	8.2	529	61	17	28	3	0	238	52	20	13	--	--	--	432	222
11- 9-65				3.04	1.40	1.22	0.08		3.90	1.08	0.56	0.21					
				53	24	21	1		68	19	10	4				311	
SYLMAR HYDRO SUBAREA U05B2																	
3N/15W-34P 1 S	--	8.0	586	54	17	41	2	0	210	46	54	0	--	--	--	425	205
11- 9-65				2.69	1.40	1.78	0.05		3.44	0.96	1.52						
				45	24	30	1		58	16	26					317	
VERDUGO HYDRO SUBAREA U05B4																	
2N/13W-28N 1 S	70	7.9	461	38	17	27	2	--	124	21	30	68.0	0.3	0.06	43		165
2- 4-66				1.90	1.40	1.17	0.05		2.03	0.44	0.85	1.10					
				42	31	26	1		46	10	19	25				307	
2N/13W-29F 1 S	70	7.9	468	38	16	26	2	--	124	18	30	68.0	0.3	0.09	39		161
2- 4-66				1.90	1.32	1.13	0.05		2.03	0.37	0.85	1.10					
				43	30	26	1		47	9	20	25				298	
2N/13W-29R 1 S	70	8.0	603	48	21	38	3	--	89	74	47	89.0	0.3	0.06	37		207
2- 4-66				2.40	1.73	1.65	0.08		1.46	1.54	1.33	1.44					
				41	30	28	1		25	27	23	25				401	
2N/13W-33R 1 S	70	7.7	531	50	18	26	3	--	160	17	29	92.0	0.2	0.06	33		199
2- 4-66				2.50	1.48	1.13	0.08		2.62	0.35	0.82	1.48					
				48	29	22	2		50	7	16	28				347	
PASADENA HYDRO SUBAREA U05C1																	
1N/12W-21K 1 S	73	8.2	353	26	8	35	2	0	117	32	17	24.0	1.3	0.32	--	231	98
11- 2-65				1.30	0.66	1.52	0.05		1.92	0.67	0.48	0.39					
				37	19	43	1		55	19	14	11				203	
1N/12W-26A 1 S	70	8.3	363	32	9	30	2	0	139	16	17	32.0	0.7	0.11	--	202	117
11- 2-65				1.60	0.74	1.30	0.05		2.28	0.33	0.48	0.52					
				43	20	35	1		63	9	13	14				207	
1N/12W-26C 1 S	75	8.3	318	22	5	38	1	0	125	28	13	13.0	1.4	0.24	--	185	76
11- 2-65				1.10	0.41	1.65	0.03		2.05	0.58	0.37	0.21					
				34	13	52	1		64	18	12	7				183	
1N/12W-34E 1 S	67	8.3	375	36	10	29	2	0	159	24	16	15.0	0.7	0.13	--	217	131
11- 1-65				1.80	0.82	1.26	0.05		2.61	0.50	0.45	0.24					
				46	21	32	1		69	13	12	6				211	
1N/12W-34N 1 S	71	8.0	897	71	31	62	3	0	132	163	84	56.0	0.7	0.33	--	584	305
11- 2-65				3.54	2.55	2.70	0.08		2.16	3.39	2.37	0.90					
				40	29	30	1		24	38	27	10				536	
1N/12W-35B 1 S	70	8.3	346	29	8	30	2	0	137	18	17	25.0	1.0	0.11	--	200	106
11- 2-65				1.45	0.66	1.30	0.05		2.25	0.37	0.48	0.40					
				42	19	38	1		64	11	14	11				197	
MONK HILL HYDRO SUBAREA U05C2																	
1N/12W- 8H 1 S	69	8.5	433	42	14	33	2	13	228	12	10	3.0	0.6	0.09	--	265	163
11- 2-65				2.10	1.15	1.43	0.05	0.43	3.74	0.25	0.28	0.05					
				44	24	30	1	9	79	5	6	1				242	
1N/12W- 8H 2 S	73	8.3	274	24	9	19	1	0	137	6	10	9.0	0.8	0	--	198	97
11- 2-65				1.20	0.74	0.83	0.03		2.25	0.12	0.28	0.15					
				43	26	30	1		80	4	10	5				146	
1N/12W- 9E 1 S	73	8.3	303	24	10	22	1	0	124	10	14	25.0	1.2	0.01	--	196	101
11- 1-65				1.20	0.82	0.96	0.03		2.03	0.21	0.39	0.40					
				40	27	32	1		67	7	13	13				168	
1N/12W- 9R 1 S	73	8.1	241	17	8	20	1	0	106	3	11	20.0	0.7	0.01	--	153	76
11- 1-65				0.85	0.66	0.87	0.03		1.74	0.06	0.31	0.32					
				35	27	36	1		72	2	13	13				133	
SANTA ANITA HYDRO SUBAREA U05C3																	
1N/11W-21C 2 S	65	8.3	420	42	12	31	1	0	188	37	12	12.0	1.4	0.27	--	247	155
11- 2-65				2.10	0.99	1.35	0.03		3.08	0.77	0.34	0.19					
				47	22	30	1		70	18	8	4				241	
1N/11W-21G 2 S	70	7.3	612	71	21	22		--	245	48	24	34.0	0.6	0.21	28		264

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ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
SANTA ANITA HYDRO SUBAREA U05C3																	
1N/11W-21G 5 S	70	7.6	524	47	5	53	2	--	198	36	20	32.0	0.8	0.36	19		138
10- 8-65				2.35	0.41	2.30	0.05		3.25	0.75	0.56	0.52					
				46	8	45	1		64	15	11	10				312	
1N/11W-21H 2 S	70	7.3	578	64	22	18	3	--	261	40	19	24.0	0.5	0.15	26		250
10- 8-65				3.19	1.81	0.78	0.08		4.28	0.83	0.54	0.39					
				54	31	13	1		71	14	9	6				345	
1N/11W-21H 3 S	70	7.9	629	28	4	104	1	--	196	107	25	5.0	1.3	0.30	16		87
10- 8-65				1.40	0.33	4.52	0.03		3.21	2.23	0.71	0.08					
				22	5	72			52	36	11	1				388	
SAN GABRIEL VALLEY HYDRO SUBUNIT U05D0																	
MAIN SAN GABRIEL HYDRO SUBAREA U05D1																	
1S/10W- 3K 3 S	79	7.9	674	82	20	23	3	--	268	42	21	56	0.7	0.10	29	409	287
6-22-66				4.09	1.64	1.00	0.08		4.39	0.87	0.59	0.90					
				60	24	15	1		65	13	9	13				409	
1S/10W- 4G 1 S	68	7.6	519	70	14	19	5	0	251	30	18	14	0.2	0.14	--	330	232
2-16-66				3.49	1.15	0.83	0.13		4.11	0.62	0.51	0.23					
				62	21	15	2		75	11	9	4				294	
	68	7.6	635	96	16	20	5	0	344	30	18	13	0.2	0.20	--	390	306
2-16-66				4.79	1.32	0.87	0.13		5.64	0.62	0.51	0.21					
				67	19	12	2		81	9	7	3				368	
1S/10W- 4R 2 S	79	7.5	629	84	16	19	3	--	271	38	29	25	0.3	0.06	24	371	276
6-15-66				4.19	1.32	0.83	0.08		4.44	0.79	0.82	0.40					
				65	21	13	1		69	12	13	6				372	
1S/10W- 8A 1 S	79	7.6	610	83	16	13	4	--	235	53	29	17	0.4	0.03	24	355	273
6-15-66				4.14	1.32	0.57	0.10		3.85	1.10	0.82	0.27					
				68	22	9	2		64	18	14	4				355	
1S/10W-16B 1 S	79	7.7	688	88	21	21	3	--	253	51	21	76	0.2	0.20	26	433	306
6-22-66				4.39	1.73	0.91	0.08		4.15	1.06	0.59	1.23					
				62	24	13	1		59	15	8	17				432	
1S/10W-17G 1 S	79	7.2	528	67	13	16	3	--	222	30	12	34	0.2	0.06	24	309	221
6-15-66				3.34	1.07	0.70	0.08		3.64	0.62	0.34	0.55					
				64	21	13	2		71	12	7	11				308	
1S/10W-19C 2 S	79	7.5	476	62	11	18	4	--	246	20	10	9	0.2	0.03	23	281	200
6-15-66				3.09	0.90	0.78	0.10		4.03	0.42	0.28	0.15					
				63	18	16	2		83	9	6	3				278	
1S/10W-34L 1 S	79	7.8	465	60	14	13	3	--	229	33	7	10	0.3	0.10	18	272	207
6-22-66				2.99	1.15	0.57	0.08		3.75	0.69	0.20	0.16					
				62	24	12	2		78	14	4	3				271	
1S/11W- 2B 1 S	77	7.4	625	83	23	16	2	--	331	29	15	17	0.3	0.13	27	415	302
6- 6-66				4.14	1.89	0.70	0.05		5.43	0.60	0.42	0.27					
				61	28	10	1		81	9	6	4				375	
	73	7.7	749	108	30	19	2	--	395	37	24	48	0.4	0.22	19	482	393
8-24-66				5.39	2.47	0.83	0.05		6.47	0.77	0.68	0.77					
				62	28	9	1		74	9	8	9				482	
1S/11W- 2F 1 S	70	7.6	429	51	15	11	2	--	192	21	12	21.0	0.6	0.21	25		189
10- 8-65				2.54	1.23	0.48	0.05		3.15	0.44	0.34	0.34					
				59	29	11	1		74	10	8	8				253	
	73	7.0	721	44	28	17	2	--	382	26	17	30	0.4	0.25	24	427	225
5-23-66				2.20	2.30	0.74	0.05		6.26	0.54	0.48	0.48					
				42	43	14	1		81	7	6	6				376	
	77	7.7	433	53	14	13	2	--	209	23	10	14	0.4	0.03	23	255	190
7- 5-66				2.64	1.15	0.57	0.05		3.43	0.48	0.28	0.23					
				60	26	13	1		78	11	6	5				255	
1S/11W- 2F 2 S	73	7.1	948	127	38	19	3	--	473	39	25	63	0.3	0.13	23	570	474
5-23-66				6.34	3.13	0.83	0.08		7.75	0.81	0.71	1.02					
				61	30	8	1		75	8	7	10				570	
	77	7.8	413	50	13	13	2	--	207	14	8	14	0.4	0.03	23	239	179
7- 5-66				2.50	1.07	0.57	0.05		3.39	0.29	0.23	0.23					
				60	26	14	1		82	7	6	6				239	
1S/11W- 2G 1 S	73	7.8	560	78	23	17	2	--	302	28	16	33	0.4	0.09	16	362	289
8-24-66				3.89	1.89	0.74	0.05		4.95	0.58	0.45	0.53					
				59	29	11	1		76	9	7	8				362	
1S/11W- 2G 2 S	73	7.8	641	85	27	18	2	--	304	27	22	65	0.3	0.06	17	413	32[illegible]
8-24-66				4.24	2.22	0.78	0.05		4.98	0.56	0.62	1.05					
				58	30	11	1		69	8	9	15				413	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
SAN GABRIEL VALLEY HYDRO SUBUNIT U05D0																	
MAIN SAN GABRIEL HYDRO SUBAREA U05D1																	
1S/11W- 2H 1 S	77	7.6	417	52	14	13	2	--	210	24	10	8	0.5	0.10	27	253	187
6- 6-66				2.59	1.15	0.57	0.05		3.44	0.50	0.28	0.13					
				59	26	13	1		79	11	6	3				254	
	73	8.0	432	59	16	15	2	--	223	26	13	25	0.4	0.13	10	276	213
8-24-66				2.94	1.32	0.65	0.05		3.65	0.54	0.37	0.40					
				59	27	13	1		74	11	7	8				276	
1S/11W- 4L 2 S	73	7.5	540	54	18	22	2	--	203	23	20	48	1.0	0.22	24	312	209
5-23-66				2.69	1.48	0.96	0.05		3.33	0.48	0.56	0.77					
				52	29	19	1		65	9	11	15				312	
1S/11W- 8A 3 S	73	7.7	375	38	10	25	2	--	199	12	8	5	0.8	0.32	21	220	136
5-23-66				1.90	0.82	1.09	0.05		3.26	0.25	0.23	0.08					
				49	21	28	1		85	7	6	2				220	
1S/11W-11C 4 S	79	7.4	460	60	15	20	2	--	248	22	16	13	0.2	0.06	19	290	211
3-21-66				2.99	1.23	0.87	0.05		4.06	0.46	0.45	0.21					
				58	24	17	1		78	9	9	4				289	
	73	7.3	476	57	15	20	2	--	256	21	13	2	0.2	0.25	22	278	204
5-23-66				2.84	1.23	0.87	0.05		4.20	0.44	0.37	0.03					
				57	25	17	1		83	9	7	1				278	
1S/11W-26D14 S	62	8.1	784	92	18	41	4	0	170	162	58	4.5	0.4	0.04	--	466	304
1-25-66				4.59	1.48	1.78	0.10		2.79	3.37	1.64	0.07					
				58	19	22	1		35	43	21	1				463	
1S/12W-10A 1 S	75	8.0	417	39	13	26	2	--	162	31	20	18	0.5	0.10	21	250	151
6- 9-66				1.95	1.07	1.13	0.05		2.66	0.65	0.56	0.29					
				46	25	27	1		64	16	13	7				250	
1S/12W-10E 1 S	75	7.6	626	54	17	38	2	--	196	44	38	34	0.4	0.10	22	347	205
6- 9-66				2.69	1.40	1.65	0.05		3.21	0.92	1.07	0.55					
				46	24	28	1		56	16	19	10				346	
1S/12W-14D 1 S	75	7.7	503	43	13	37	2	--	183	36	29	20	0.5	0.10	24	295	161
6- 9-66				2.15	1.07	1.61	0.05		3.00	0.75	0.82	0.32					
				44	22	33	1		61	15	17	7				295	
1S/12W-14G 1 S	77	7.6	538	49	14	36	2	--	192	27	39	26	0.5	0.10	21	310	180
6- 9-66				2.45	1.15	1.57	0.05		3.15	0.56	1.10	0.42					
				47	22	30	1		60	11	21	8				309	
2S/11W- 6A 1 S	85	8.2	314	41	9	12	2	0	160	23	6	0	--	--	--	253	140
3- 4-66				2.05	0.74	0.52	0.05		2.62	0.48	0.17						
				61	22	15	1		80	15	5					172	
	83	8.5	318	42	9	11	2	0	155	24	6	0	--	--	--	248	142
3- 4-66				2.10	0.74	0.48	0.05		2.54	0.50	0.17						
				62	22	14	1		79	16	5					170	
	81	8.3	317	41	9	11	2	0	156	23	10	0	--	--	--	251	140
3- 4-66				2.05	0.74	0.48	0.05		2.56	0.48	0.28						
				62	22	14	2		77	14	8					173	
	78	8.3	316	40	9	11	2	0	156	22	5	0	--	--	--	244	137
3- 4-66				2.00	0.74	0.48	0.05		2.56	0.46	0.14						
				61	23	15	2		81	15	4					166	
	73	8.5	315	41	9	11	2	0	157	23	14	0	--	--	--	256	140
3- 4-66				2.05	0.74	0.48	0.05		2.57	0.48	0.39						
				62	22	14	2		75	14	11					177	
1N/10W-34N 1 S	68	7.6	479	71	12	13	4	0	207	30	18	26	0.3	0.14	--	340	227
2-15-66				3.54	0.99	0.57	0.10		3.39	0.62	0.51	0.42					
				68	19	11	2		69	13	10	9				276	
1N/10W-34N 2 S	68	7.8	444	56	12	15	5	0	161	36	24	24	0.3	0.16	--	290	189
2-15-66				2.79	0.99	0.65	0.13		2.64	0.75	0.68	0.39					
				61	22	14	3		59	17	15	9				252	
1N/11W-32Q 2 S	70	7.6	483	51	17	21	2	--	181	28	16	48.0	1.0	0.30	29		197
10- 8-65				2.54	1.40	0.91	0.05		2.97	0.58	0.45	0.77					
				52	29	19	1		62	12	9	16				302	
1N/11W-34N 5 S	70	7.8	334	36	10	19	1	--	172	15	9	4.0	0.9	0.18	27		131
10- 8-65				1.80	0.82	0.83	0.03		2.82	0.31	0.25	0.06					
				52	24	24	1		82	9	7	2				207	
SPADRA HYDRO SUBUNIT U05E0																	
LIVE OAK HYDRO SUBAREA U05E3																	
1S/ 8W- 5A 1 S	68	8.1	755	79	22	39	2	0	146	102	32	117.0	0.8	0.32	--	473	288
10-22-65				3.94	1.81	1.70	0.05		2.39	2.12	0.90	1.89					
				53	24	23	1		33	29	12	26				466	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
ANAHEIM HYDRO SUBUNIT U05F0																	
ANAHEIM HYDRO SUBAREA U05F1																	
3S/ 9W-32H 3 S	--	7.9	1270	--	--	--	--	0	216	306	107	26	--	--	--		
3-28-66									3.54	6.37	3.02	0.42					
3S/ 9W-32P 3 S	--	7.6	1140	--	--	--	--	0	209	254	105	--	--	--	--		
10-27-65									3.43	5.29	2.96						
3S/ 9W-32P 4 S	--	7.6	1080	106	26	80	5	0	215	221	94	12	0.5	0.10	30	706	372
4-11-66				5.29	2.14	3.48	0.13		3.52	4.60	2.65	0.19					
				48	19	32	1		32	42	24	2				680	
3S/ 9W-33H 1 S	--	7.6	861	72	13	90	3	0	240	110	85	0	0.5	0.14	23	532	233
3-28-66				3.59	1.07	3.91	0.08		3.93	2.29	2.40						
				42	12	45	1		46	27	28					515	
3S/ 9W-33K 1 S	66	7.6	1090	--	--	--	--	0	198	247	92	--	--	--	--		
10- 5-65									3.25	5.14	2.59						
	--	7.5	1100	--	--	--	--	0	188	251	95	9	--	--	--		
4-18-66									3.08	5.23	2.68	0.15					
3S/ 9W-34G 1 S	--	7.8	1090	--	--	--	--	0	182	254	95	--	--	--	--		
3-15-66									2.98	5.29	2.68						
3S/ 9W-34H 1 S	--	7.6	884	87	18	72	4	0	248	140	66	1	0.5	0.14	27	535	291
3-15-66				4.34	1.48	3.13	0.10		4.06	2.91	1.86	0.02					
				48	16	35	1		46	33	21					538	
3S/ 9W-34M 1 S	--	7.4	1240	124	26	99	5	0	216	305	105	21	0.6	0.09	33	826	417
3-28-66				6.19	2.14	4.30	0.13		3.54	6.35	2.96	0.34					
				49	17	34	1		27	48	22	3				825	
3S/10W-36H 1 S	--	7.8	687	--	--	--	--	0	233	77	52	--	--	--	--		
10- 8-65									3.82	1.60	1.47						
	--	7.7	716	84	15	37	3	0	235	78	53	7	0.5	0.04	35	454	271
4-11-66				4.19	1.23	1.61	0.08		3.85	1.62	1.49	0.11					
				59	17	23	1		54	23	21	2				428	
4S/ 9W- 4M 2 S	--	7.6	1270	--	--	--	--	0	221	276	121	--	--	--	--		
10- 8-65									3.62	5.75	3.41						
	66	7.6	1120	96	26	100	5	0	249	184	116	14	0.3	0.09	26	748	347
3-31-66				4.79	2.14	4.35	0.13		4.08	3.83	3.27	0.23					
				42	19	38	1		36	34	29	2				690	
4S/ 9W- 6G 2 S	--	7.6	1130	108	21	98	6	0	177	280	102	7	0.5	0.09	32	777	356
3-28-66				5.39	1.73	4.26	0.15		2.90	5.83	2.88	0.11					
				47	15	37	1		25	50	25	1				742	
4S/10W- 1B 1 S	--	7.6	1080	--	--	--	--	0	136	--	93	--	--	--	--		
10- 8-65									2.23		2.62						
4S/10W- 1F 1 S	--	7.6	1126	--	--	--	--	0	176	267	98	--	--	--	--		
10-27-65									2.88	5.56	2.76						
4S/10W-14H 2 S	--	7.8	997	120	22	52	4	0	217	198	79	24	0.5	0.03	32	633	390
3-28-66				5.99	1.81	2.26	0.10		3.56	4.12	2.23	0.39					
				59	18	22	1		35	40	22	4				638	
LA HABRA HYDRO SUBAREA U05F2																	
3S/10W- 2N 2 S	--	7.4	1450	109	42	--	--	0	295	--	141	81	--	--	--		445
11- 2-65				5.44	3.45				4.84		3.98	1.31					
	--	7.5	1410	113	41	141	4	0	296	237	134	99	0.7	0.13	62	995	451
4- 6-66				5.64	3.37	6.13	0.10		4.85	4.93	3.78	1.60					
				37	22	40	1		32	33	25	11				977	
3S/10W- 3P 1 S	--	7.4	1270	91	38	--	--	0	283	--	148	42	--	--	--		384
12- 6-65				4.54	3.13				4.64		4.17	0.68					
	--	7.4	1290	95	38	118	3	0	289	188	143	38	0.6	0.10	73	893	394
3- 0-66				4.74	3.13	5.13	0.08		4.74	3.91	4.03	0.61					
				36	24	39	1		36	29	30	5				839	

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ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
ANAHEIM HYDRO SUBUNIT U05F0																	
LA HABRA HYDRO SUBAREA U05F2																	
3S/10W- 4D 1 S	--	7.5	1520	116	49	158	5	0	331	381	114	0	0.8	0.30	32	1053	491
10-19-65				5.79	4.03	6.87	0.13		5.43	7.93	3.21						
				34	24	41	1		33	48	19					1019	
	--	7.3	1540	--	--	--	--	0	342	--	116	1	--	--	--		
4- 6-66									5.61		3.27	0.02					
3S/10W- 7H 3 S	--	7.2	1590	--	--	--	--	0	278	--	287	78	--	--	--		
10-19-65									4.56		8.09	1.26					
	--	7.2	1820	203	38	119	1	0	288	141	324	101	0.5	0.14	94	1218	664
4- 6-66				10.13	3.13	5.17	0.03		4.72	2.94	9.14	1.63					
				55	17	28			26	16	50	9				1163	
3S/10W- 7H 4 S	--	7.3	1380	137	40	--	--	0	338	--	190	86	--	--	--		507
11- 4-65				6.84	3.29				5.54		5.36	1.39					
3S/10W- 9H 1 S	--	7.8	960	--	--	--	--	0	333	--	30	--	--	--	--		
6-14-66									5.46		0.85						
3S/10W- 9H 2 S	--	7.5	959	81	22	--	--	0	348	--	40	60	--	--	--		293
11-10-65				4.04	1.81				5.70		1.13	0.97					
3S/10W- 9M 2 S	--	7.6	1280	119	46	--	--	0	275	--	165	64	--	--	--		486
11- 1-65				5.94	3.78				4.51		4.65	1.03					
3S/10W- 9R 1 S	--	7.3	1566	173	43	--	--	0	360	--	178	159	--	--	--		609
11- 2-65				8.63	3.54				5.90		5.02	2.56					
3S/10W-10C 1 S	--	7.4	1590	117	53	--	--	0	329	--	142	20	--	--	--		510
11- 4-65				5.84	4.36				5.39		4.00	0.32					
3S/10W-10K 1 S	--	7.7	1590	120	47	--	--	0	331	--	137	15	--	--	--		493
11-10-65				5.99	3.87				5.43		3.86	0.24					
3S/10W-10M 1 S	--	7.7	941	--	--	--	--	0	251	--	107	42	--	--	--		
10-19-65									4.11		3.02	0.68					
3S/10W-10M 1 S	--	7.9	933	86	34	56	3	0	255	84	107	28	0.3	0.08	53	576	355
4- 6-66				4.29	2.80	2.43	0.08		4.18	1.75	3.02	0.45					
				45	29	25	1		44	19	32	5				577	
3S/10W-10M 2 S	--	7.7	892	84	26	58	2	0	220	65	84	97	0.6	0.04	58	587	317
4- 6-66				4.19	2.14	2.52	0.05		3.61	1.35	2.37	1.56					
				47	24	28	1		41	15	27	18				583	
3S/10W-10N 3 S	--	7.3	2260	249	158	--	--	0	254	--	508	91	--	--	--		1272
11- 3-65				12.43	12.99				4.16		14.33	1.47					
3S/10W-10N 4 S	--	7.3	1640	175	51	--	--	0	314	--	214	128	--	--	--		647
11- 2-65				8.73	4.19				5.15		6.03	2.06					
3S/10W-11P 1 S	--	7.6	1640	100	47	--	--	0	318	--	163	79	--	--	--		443
11- 4-65				4.99	3.87				5.21		4.60	1.27					
3S/10W-11M 2 S	--	7.5	1720	129	55	170	3	0	382	216	186	151	0.5	0.19	31	1128	548
10-19-65				6.44	4.52	7.39	0.08		6.26	4.50	5.25	2.44					
				35	25	40			34	24	28	13				1129	
	--	7.6	1750	--	--	--	--	0	378	--	189	153	--	--	--		
4- 6-66									6.20		5.33	2.47					
3S/10W-12M 1 S	--	7.4	1220	120	40	--	--	0	300	--	176	34	--	--	--		464
11-10-65				5.99	3.29				4.92		4.96	0.55					
3S/10W-15B 1 S	--	7.4	1530	--	--	--	--	0	309	--	159	60	--	--	--		
10-19-65									5.06		4.48	0.97					
3S/10W-15D 2 S	--	7.4	1340	125	44	--	--	0	324	--	138	58	--	--	--		493
11- 4-65				6.24	3.62				5.31		3.89	0.94					

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
YORBA LINDA HYDRO SUBAREA U05F3																	
3S/ 9W- 2P 1 S	--	8.1	6560	--	--	--	--	24	2830	--	915	0.0	--	--	--		
10-27-65								0.80	46.38		25.80						
	--	7.9	6780	--	--	--	--	119	2850	--	915	0	--	--	--		
3-15-66								3.97	46.71		25.80						
3S/ 9W-16X 1 S	--	8.1	1040	32	43	140	5	12	358	143	65	--	--	0.31	--	659	257
11-18-65				1.60	3.54	6.09	0.13	0.40	5.87	2.98	1.83						
3S/ 9W-19B 2 S	--	8.0	1050	64	41	93	3	5	291	117	112	19.0	0.1	0.21	16	684	328
10- 8-65				3.19	3.37	4.04	0.08	0.17	4.77	2.44	3.16	0.31					
				30	32	38	1	2	44	22	29	3				613	
	--	8.2	1080	--	--	--	--	8	251	--	118	41	--	--	--		
3-15-66								0.27	4.11		3.33	0.66					
3S/ 9W-21D 1 S	--	7.6	1030	--	--	--	--	0	403	--	65	0.0	--	--	--		
10- 8-65									6.61		1.83						
	--	7.6	1050	--	--	--	--	0	401	--	66	0	--	--	--		
3-15-66									6.57		1.86						
3S/ 9W-21D 2 S	--	7.7	1070	--	--	--	--	0	431	--	59	0.0	--	--	--		
10- 8-65									7.06		1.66						
	--	7.8	1070	--	--	--	--	0	438	--	57	0	--	--	--		
3-15-66									7.18		1.61						
3S/ 9W-21M 2 S	--	7.9	950	--	--	--	--	12	355	--	71	0.0	--	--	--		
3S/ 9W-21M 2 S	--	8.1	959	--	--	--	--	12	379	--	69	0	--	--	--		
3-15-66								0.40	6.21		1.95						
3S/ 9W-28L 2 S	--	7.2	1300	--	--	--	--	0	318	--	268	0.0	--	--	--		
10- 8-65									5.21		7.56						
	--	7.3	1320	--	--	--	--	0	328	--	259	0	--	--	--		
3-15-66									5.38		7.30						
LONG HYDRO SUBUNIT W03A0																	
2S/28E-25H 1 M	52	7.3	268	19	10	20	7	--	164	0	7	0.0	0.3	0.07	--	180	89
6-21-66				0.95	0.82	0.87	0.18		2.69		0.20						
				34	29	31	6		93		7					144	
2S/28E-29D 1 M	55	7.7	186	10	4	22	5	0	95	4	6	0.3	0.5	0.31	--	150	42
6-13-66				0.50	0.33	0.96	0.13		1.56	0.08	0.17						
				26	17	50	7		86	4	9					99	
2S/29E-31P 1 M	--	7.0	206	11	3	25	5	0	95	14	3	1.3	0.6	0.08	--	165	40
6-13-66				0.55	0.25	1.09	0.13		1.56	0.29	0.08	0.02					
				27	12	54	6		80	15	4	1				110	
3S/27E-31C 1 M	39	5.9	79	3	2	8	4	--	46	0	0	0.0	0.1	0	--	55	16
6-22-66				0.15	0.16	0.35	0.10		0.75								
				20	21	46	13		00							40	
3S/28E-25AS1 M	190	8.2	1542	3	1	325	22	0	481	84	190	1.2	8.6	9.20	--	1040	12
5-12-66				0.15	0.08	14.13	0.56		7.88	1.75	5.36	0.02					
				1	1	95	4		52	12	36					881	
3S/28E-32E 1 M	--	4.4	49	0	0	0	0	0	0	11	1	0.3	0.1	0	--	8	
6-14-66										0.23	0.03						
										88	12						

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER IDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
LA SAN GABRIEL RIVER HYDRO UNIT U0500																	
YORBA LINDA HYDRO SUBAREA U05F3																	
3S/28E-32E 2 M	185	7.4	217	38	1	2	3	0	98	20	5	0.8	0.5	0.36	--	145	99
6-14-66				1.90	0.08	0.09	0.08		1.61	0.42	0.14	0.01					
				88	4	4	4		74	19	6					119	
3S/28E-33P 1 M	--	7.5	409	13	9	58	7	0	173	17	33	0.0	0.4	1.46	--	310	70
5-13-66				0.65	0.74	2.52	0.18		2.84	0.35	0.93						
				16	15	62	4		69	8	23					224	
3S/28E-33PS1 M	58	7.5	313	18	7	33	6	0	105	21	31	0.5	0.3	1.46	--	200	74
5-13-66				0.90	0.58	1.43	0.15		1.72	0.44	0.87	0.01					
				29	19	47	5		57	14	29					170	
3S/28E-35KS1 M	54	7.3	173	12	5	16	4	--	91	8	3	0.6	0.3	0.08	--	120	51
6-14-66				0.60	0.41	0.70	0.10		1.49	0.17	0.08	0.01					
				33	23	39	6		85	10	5	1				94	
3S/28E-35NS1 M	--	7.2	214	10	7	24	5	--	115	8	9	0.7	0.3	0.34	--	170	54
6-14-66				0.50	0.58	1.04	0.13		1.88	0.17	0.25	0.01					
				22	26	46	6		81	7	11					121	
3S/28E-35NS2 M	60	7.2	201	9	7	22	5	--	108	7	5	0.7	0.3	0.17	--	150	52
6-14-66				0.45	0.58	0.96	0.13		1.77	0.15	0.14	0.01					
				21	27	45	6		86	7	7					109	
3S/29E-21LS1 M	128	7.3	1779	28	0	380	37	0	791	60	160	0.3	4.9	31.00	--	1270	70
6-11-66				1.40		16.52	0.95		12.96	1.25	4.51						
				7		88	5		69	7	24					1090	
3S/29E-21NS1 M	132	7.0	1754	26	0	380	35	0	781	60	158	0.0	4.8	31.00	--	1245	65
6-22-66				1.30		16.52	0.89		12.80	1.25	4.46						
				7		88	5		69	7	24					1079	
3S/29E-31AS1 M	142	8.2	1487	16	1	315	21	0	498	78	180	0.0	6.0	8.00	--	960	44
5-13-66				0.80	0.08	13.70	0.54		8.16	1.62	5.08						
				5	1	91	4		55	11	34					870	
4S/28E- 9FS1 M	53	7.6	118	16	0	5	1	0	46	13	1	0.0	0.2	0	--	65	40
6-19-66				0.80		0.22	0.03		0.75	0.27	0.03						
				76		21	3		71	26	3					59	
4S/28E-14R 1 M	49	7.6	206	38	1	3	2	--	106	13	2	2.2	0.1	0	--	140	99
6-24-66				1.90	0.08	0.13	0.05		1.74	0.27	0.06	0.04					
				88	4	6	2		82	13	3	2				113	
4S/29E- 6R 1 M	--	8.2	191	30	2	5	1	0	98	12	2	0.0	0.2	0	--	130	83
5-12-66				1.50	0.16	0.22	0.03		1.61	0.25	0.06						
				79	8	12	2		84	13	3					100	
4S/29E-36LS1 M	50	7.8	86	10	1	6	1	0	46	3	1	0.5	0.2	0	--	55	29
6-16-66				0.50	0.08	0.26	0.03		0.75	0.06	0.03	0.01					
				57	9	30	3		88	7	4	1				45	
4S/30E-29R 1 M	--	7.0	65	6	1	6	1	--	38	0	2	0.5	0.1	0.01	--	44	19
6-22-66				0.30	0.08	0.26	0.03		0.62		0.06	0.01					
				45	12	39	4		90		9	1				35	
KELSO LANDIS HYDRO SUBUNIT W25B0																	
6N/ 3W- 9D 1 S	--	8.4	778	4	2	169	3	0	91	207	38	0.2	14.3	1.08	--	520	18
5-25-66				0.20	0.16	7.35	0.08		1.49	4.31	1.07						
				3	2	94	1		22	63	16					483	
ANTELOPE HYDRO SUBUNIT W26A0																	
WILLOW SPRINGS HYDRO SUBAREA W26A3																	
10N/15W- 6KS1 S	60	7.9	302	34	9	15	1	--	154	9	9	13	0.1	0	--	185	122
5- 4-66				1.70	0.74	0.65	0.03		2.52	0.19	0.25	0.21					
				54	24	21	1		79	6	8	7				166	
10N/16W- 3Q 1 S	57	7.7	225	24	9	8	1	0	104	5	4	25.0	0.2	0.02	--	120	97
10-29-65				1.20	0.74	0.35	0.03		1.70	0.10	0.11	0.40					
				52	32	15	1		74	4	5	17				127	
NEENACH HYDRO SUBAREA W26A4																	
8N/17W-18KS1 S	54	7.2	262	16	4	29	1	0	59	12	21	35	0.8	0.07	--	195	57
3- 7-66				0.80	0.33	1.26	0.03		0.97	0.25	0.59	0.56					
				33	14	52	1		41	11	25	24				148	
8N/17W-18K 1 S	69	7.1	229	16	3	25	0	0	77	11	11	20.0	1.1	0.04	--	190	53
10-30-65				0.80	0.25	1.09			1.26	0.23	0.31	0.32					
				37	12	51			59	11	15	15				125	
8N/17W-19HS1 S	64	8.5	962	66	23	130	2	14	425	79	51	3.7	2.4	2.14	--	640	259
3- 7-66				3.29	1.89	5.65	0.05	0.47	6.97	1.64	1.44	0.06					
				30	17	52		4	66	16	14	1				582	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
ANTELOPE HYDRO UNIT																	
ANTELOPE HYDRO SUBUNIT				W26A0						W2600							
NEENACH HYDRO SUBAREA					W26A4												
8N/18W- 4KS1 S	--	8.2	269	22	8	20	3	--	128	6	9	17	0.5	0	--	108	88
4-15-66				1.10	0.66	0.87	0.08		2.10	0.12	0.25	0.27					
				41	24	32	3		77	4	9	10				148	
8N/18W-10DS1 S	62	8.2	965	84	36	81	4	8	420	109	41	4	1.6	0.14	--	608	358
4-21-66				4.19	2.96	3.52	0.10	0.27	6.88	2.27	1.16	0.06					
				39	27	33	1	3	65	21	11	1				575	
8N/18W-13QS1 S	62	8.2	584	37	15	61	2	0	176	18	82	4.3	1.1	0.08	--	350	154
3- 7-66				1.85	1.23	2.65	0.05		2.88	0.37	2.31	0.07					
				32	21	46	1		51	7	41	1				307	
8N/18W-24NS1 S	62	8.5	527	35	13	61	6	11	226	23	20	31	0.3	0.04	--	315	141
5- 4-66				1.75	1.07	2.65	0.15	0.37	3.70	0.48	0.56	0.50					
				31	19	47	3	7	66	9	10	9				311	
9N/17W- 8BS1 S	61	7.7	534	61	33	6	2	--	336	11	7	4.2	0.2	0	--	290	288
6- 4-66				3.04	2.71	0.26	0.05		5.51	0.23	0.20	0.07					
				50	45	4	1		92	4	3	1				290	
9N/17W-10ES1 S	63	7.7	393	59	11	5	0	--	201	18	10	8	0.1	0	--	179	192
5-29-66				2.94	0.90	0.22			3.29	0.37	0.28	0.13					
				72	22	5			81	9	7	3				210	
9N/17W-11ES2 S	66	7.9	503	58	15	26	1	--	244	31	20	1	0.6	0	--	279	206
4-27-66				2.89	1.23	1.13	0.03		4.00	0.65	0.56	0.02					
				55	23	21	1		76	12	11					273	
9N/17W-19MS1 S	68	7.8	391	69	4	5	0	--	199	11	13	17	0.2	0.01	--	232	189
7-12-66				3.44	0.33	0.22			3.26	0.23	0.37	0.27					
				86	8	6			79	6	9	7				217	
9N/17W-19M 1 S	68	8.1	280	41	6	5	1	0	129	12	7	16.0	0.3	0.02	--	145	127
10-29-65				2.05	0.49	0.22	0.03		2.11	0.25	0.20	0.26					
				73	18	8	1		75	9	7	9				152	
9N/17W-20RS1 S	67	7.6	359	26	4	42	1	--	109	18	24	34	1.0	0.10	--	231	82
7-12-66				1.30	0.33	1.83	0.03		1.79	0.37	0.68	0.55					
				37	9	52	1		53	11	20	16				204	
9N/17W-20R 1 S	72	7.9	347	23	6	39	1	0	115	18	20	38.0	0.8	0.12	--	200	82
10-29-65				1.15	0.49	1.70	0.03		1.88	0.37	0.56	0.61					
				34	15	50	1		55	11	16	18				202	
9N/17W-21H 1 S	69	7.7	180	10	3	21	1	0	54	15	11	10.0	1.5	0.02	--	120	38
10-29-65				0.50	0.25	0.91	0.03		0.89	0.31	0.31	0.16					
				30	15	54	2		53	19	19	10				99	
9N/17W-22C 1 S	80	7.7	487	67	14	13	3	--	240	37	15	1	0.4	0.04	--	275	225
5-29-66				3.34	1.15	0.57	0.08		3.93	0.77	0.42	0.02					
				65	22	11	2		76	15	8					268	
9N/17W-29P 1 S	73	7.9	507	65	5	38	0	0	235	23	18	26.0	1.1	0.08	--	290	183
10-29-65				3.24	0.41	1.65			3.85	0.48	0.51	0.42					
				61	8	31			73	9	10	8				292	
9N/18W-11AS1 S	65	7.8	1109	126	41	65	4	--	343	270	37	0.0	2.1	0.23	--	760	483
6- 5-66				6.29	3.37	2.83	0.10		5.62	5.62	1.04						
				50	27	22	1		46	46	8					714	
9N/18W-23BS1 S	58	7.9	469	54	27	3	0	--	281	7	10	8	0	0	--	230	246
6- 4-66				2.69	2.22	0.13			4.61	0.15	0.28	0.13					
				53	44	3			89	3	5	3				247	
9N/18W-23B 1 S	58	7.7	461	57	26	3	1	0	289	7	5	6.0	0.1	0.02	--	220	249
10-29-65				2.84	2.14	0.13	0.03		4.74	0.15	0.14	0.10					
				55	42	3	1		92	3	3	2				247	
9N/18W-25FS1 S	64	7.5	327	46	9	5	1	--	152	8	7	28.2	0.3	0.01	--	192	152
5-23-66				2.30	0.74	0.22	0.03		2.49	0.17	0.20	0.45					
				70	22	7	1		75	5	6	14				179	
9N/18W-28P 1 S	60	7.6	572	81	24	6	1	0	319	38	8	5.0	0.1	0.01	--	342	301
10-29-65				4.04	1.97	0.26	0.03		5.23	0.79	0.23	0.08					
				64	31	4			83	12	4	1				320	
9N/18W-35AS1 S	59	7.7	484	86	9	4	0	--	281	10	10	13	0.3	0	--	279	252
5-28-66				4.29	0.74	0.17			4.61	0.21	0.28	0.21					
				83	14	3			87	4	5	4				270	
9N/18W-36BS1 S	71	7.7	358	47	12	6	1	--	170	12	10	20	0.3	0.09	--	155	167
5-28-66				2.35	0.99	0.26	0.03		2.79	0.25	0.28	0.32					
				65	27	7	1		77	7	8	9				192	
9N/18W-36RS1 S	57	8.3	450	48	6	39	3	9	173	20	20	20	3.5	0.02	--	265	145
4-14-66				2.40	0.49	1.70	0.08	0.30	2.84	0.42	0.56	0.32					
				51	10	36	2	7	64	9	13	7				254	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
				MINERAL CONSTITUENTS IN	MILLIGRAMS PER LITER								MILLIGRAMS PER LITER				
					MILLIEQUIVALENTS PER LITER												
					PERCENT REACTANCE VALUE												
MOJAVE HYDRO UNIT										W2800							
9N/18W-36B 1 S	66	8.0	379	61	10	4	1	0	200	10	5	22.0	0.3	0	--	240	193
10-29-65				3.04	0.82	0.17	0.03		3.28	0.21	0.14	0.35					
				75	20	4	1		82	5	4	9				212	
10N/16W- 1JS1 S	63	8.3	398	46	14	20	1	8	212	4	14	11	0	0	--	240	173
5- 4-66				2.30	1.15	0.87	0.03	0.27	3.47	0.08	0.39	0.18					
				53	26	20	1	6	79	2	9	4				222	
10N/16W- 3QS1 S	59	8.2	224	23	9	8	0	--	98	6	6	22	0	0.04	--	134	95
5- 4-66				1.15	0.74	0.35			1.61	0.12	0.23	0.35					
				51	33	16			70	5	10	15				124	
10N/16W-23RS1 S	65	7.5	936	77	26	97	3	--	416	114	30	0.8	4.7	0.54	--	576	299
6- 5-66				3.84	2.14	4.22	0.08		6.82	2.37	0.85	0.01					
				37	21	41	1		68	24	8					558	
10N/16W-27PS1 S	62	7.7	1008	154	29	46	0	--	352	278	22	1	1.7	0	--	739	503
5- 3-66				7.68	2.38	2.00			5.77	5.79	0.62	0.02					
				64	20	17			47	47	5					705	
10N/16W-27P 1 S	57	8.2	525	79	16	16	4	0	332	15	8	1.0	0.6	0.02	--	270	263
10-29-65				3.94	1.32	0.70	0.10		5.44	0.31	0.23	0.02					
				65	22	12	2		91	5	4					303	
10N/16W-32RS1 S	92	8.0	555	63	12	37	3	--	243	56	25	2	0.8	0	--	310	207
5- 3-66				3.14	0.99	1.61	0.08		3.98	1.17	0.71	0.03					
				54	17	28	1		68	20	12	1				318	
11N/16W-34QS1 S	53	8.4	408	45	21	14	2	8	221	16	14	0.0	0.2	0.16	--	236	199
5- 4-66				2.25	1.73	0.61	0.05	0.27	3.62	0.33	0.39						
				48	37	13	1	6	79	7	8					229	
EL MIRAGE HYDRO SUBUNIT				W28A0													
3N/ 7W- 9M 1 S	--	7.4	609	87	27	9	4	0	330	67	5	0.5	0.4	0.04	--	385	328
11- 9-65				4.34	2.22	0.39	0.10		5.41	1.39	0.14	0.01					
				62	31	6	1		78	20	2					362	
	--	8.5	518	77	22	8	5	22	260	44	4	0.5	0.4	0.03	--	326	283
5- 5-66				3.84	1.81	0.35	0.13	0.73	4.26	0.92	0.11	0.01					
				63	30	6	2	12	71	15	2					311	
6N/ 7W-11R 1 S	--	8.5	507	0	3	101	1	5	85	147	5	0.2	1.1	0.12	--	340	13
11- 9-65					0.25	4.39	0.03	0.17	1.39	3.06	0.14						
					5	94	1	4	29	64	3					305	
	--	8.1	516	0	3	110	1	0	103	147	6	0.9	1.2	0.15	--	325	13
5- 5-66					0.25	4.78	0.03		1.69	3.06	0.17	0.01					
					5	94	1		34	62	3					320	
6N/ 7W-19E 1 S	--	7.8	544	47	11	50	5	0	90	186	6	1.0	0.6	0.01	--	391	163
11- 9-65				2.35	0.90	2.17	0.13		1.48	3.87	0.17	0.02					
				42	16	39	2		27	70	3					351	
7N/ 7W-32G 1 S	--	7.2	21450	1810	632	2500	24	0	123	1262	7750	36	1.1	0.29	--	15660	7121
6-29-66				90.32	51.98	108.70	0.61		2.02	26.27	218.55	0.58					
				36	21	43			1	11	88					14076	
UPPER MOJAVE HYDRO SUBUNIT				W28B0													
2N/ 2W-30K 1 S	--	7.4	88	6	5	5	1	0	51	0	2	0	0.1	0.03	--	42	36
1-25-66				0.30	0.41	0.22	0.03		0.84		0.06						
				31	43	23	3		93		7					44	
2N/ 2W-30K 1 S	--	7.0	80	5	4	5	1	0	46	1	2	0.7	0.1	0.02	--	64	29
7-22-66				0.25	0.33	0.22	0.03		0.75	0.02	0.06	0.01					
				30	40	27	4		89	2	7	1				41	
2N/ 2W-30KS1 S	--	7.4	884	6	5	5	1	0	51	0	2	0	0.1	0.03	--	42	36
1-25-66				0.30	0.41	0.22	0.03		0.84		0.06						
				31	43	23	3		93		7					44	
2N/ 2W-32R 2 S	--	8.0	283	31	11	13	3	0	175	1	7	0	0.2	0.02	--	144	123
1-25-66				1.55	0.90	0.57	0.08		2.87	0.02	0.20						
				50	29	18	3		93	1	6					152	
2N/ 3W- 7H 1 S	52	8.2	240	24	7	13	2	5	110	3	9	0.0	0.1	0	--	120	89
11- 4-65				1.20	0.58	0.57	0.05	0.17	1.80	0.06	0.25						
				50	24	24	2	7	79	3	11					117	
	51	7.3	185	17	6	9	3	--	84	7	13	0.0	0.1	0	--	100	67
4-29-66				0.85	0.49	0.39	0.08		1.38	0.15	0.37						
				47	27	22	4		73	8	19					96	
2N/ 3W-19L 1 S	--	6.5	951	7	4	8	1	0	48	1	7	0.2	0.2	0.03	--	83	34
7-21-66				0.35	0.33	0.35	0.03		0.79	0.02	0.20						
				33	31	33	3		78	2	20					52	
2N/ 3W-19L 2 S	--	6.6	146	14	3	10	1	0	86	3	13	0	0.2	0.02	--	96	48
7-21-66				0.70	0.25	0.43	0.03		1.41	0.06	0.37						
				50	18	30	2		77	3	20					86	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
UPPER MOJAVE HYDRO SUBUNIT				W28B0				MOJAVE HYDRO UNIT			W2800						
2N/ 3W-19P 1 S	--	6.8	127	9	4	9	1	0	49	2	13	0	0.1	0.01	--	83	39
1-26-66				0.45	0.33	0.39	0.03		0.80	0.04	0.37						
				38	28	33	3		66	3	31					62	
2N/ 3W-22D 1 S	--	7.7	134	13	4	9	2	0	65	3	9	0.3	0.1	0.05	--	56	49
1-25-66				0.65	0.33	0.39	0.05		1.07	0.06	0.25						
				46	23	27	4		78	4	18					72	
	--	7.2	134	12	5	9	2	0	64	2	7	0.8	0.1	0.02	--	71	51
7-22-66				0.60	0.41	0.39	0.05		1.05	0.04	0.20	0.01					
				41	28	27	3		81	3	15	1				69	
2N/ 3W-26D 2 S	--	6.7	286	30	12	10	3	0	103	19	15	21	0.1	0	--	186	125
7-22-66				1.50	0.99	0.43	0.08		1.69	0.40	0.42	0.34					
				50	33	14	3		59	14	15	12				161	
2N/ 3W-26E 1 S	--	6.8	240	22	11	9	2	0	96	14	12	14	0.2	0.03	--	169	100
7-22-66				1.10	0.90	0.39	0.05		1.57	0.29	0.34	0.23					
				45	37	16	2		65	12	14	9				131	
2N/ 3W-26D 2 S	--	7.0	162	16	5	8	2	0	77	5	6	5.7	0.1	0.01	--	95	61
1-25-66				0.80	0.41	0.35	0.05		1.26	0.10	0.17	0.09					
				50	25	22	3		78	6	10	6				86	
2N/ 3W-26E 1 S	--	7.1	158	16	6	8	2	0	74	6	6	6.0	0.1	0	--	95	65
1-25-66				0.80	0.49	0.35	0.05		1.21	0.12	0.17	0.10					
				47	29	21	3		76	8	11	6				86	
2N/ 3W-27D 1 S	--	7.2	239	25	8	13	2	0	118	6	11	6.4	0.1	0.03	--	140	96
1-25-66				1.25	0.66	0.57	0.05		1.93	0.12	0.31	0.10					
				49	26	23	2		78	5	13	4				130	
	--	7.1	239	24	8	12	2	0	118	7	11	4.1	0.1	0.04	--	153	93
7-22-66				1.20	0.66	0.52	0.05		1.93	0.15	0.31	0.07					
				49	27	21	2		78	6	13	3				126	
2N/ 4W- 6R 1 S	--	6.3	135	13	2	12	1	0	62	4	9	0	0.1	0	--	106	41
7-21-66				0.65	0.16	0.52	0.03		1.02	0.08	0.25						
				48	12	38	2		76	6	19					72	
2N/ 4W- 8NS2 S	50	6.9	169	12	5	11	3	0	59	8	6	21.0	0.1	0	--	130	51
4-26-66				0.60	0.41	0.48	0.08		0.97	0.17	0.17	0.34					
				38	26	31	5		59	10	10	21				95	
2N/ 4W- 8PS2 S	49	6.8	219	20	4	14	3	0	51	16	20	19.0	0.2	0	--	175	67
4-26-66				1.00	0.33	0.61	0.08		0.84	0.33	0.56	0.31					
				50	16	30	4		41	16	27	15				121	
2N/ 4W-16G 1 S	51	6.6	122	9	3	11	2	--	54	7	7	0.8	0.1	0	--	74	35
5- 4-66				0.45	0.25	0.48	0.05		0.89	0.15	0.20	0.01					
				37	20	39	4		71	12	16	1				66	
	55	7.8	144	9	5	11	2	--	59	7	11	0	0.1	0.01	--	107	43
9-28-66				0.45	0.41	0.48	0.05		0.97	0.15	0.31						
				32	29	35	4		68	10	22					74	
2N/ 4W-16KS1 S	54	8.0	245	22	6	16	2	0	84	16	24	0.7	0.1	0.05	--	136	80
11- 1-65				1.10	0.49	0.70	0.05		1.38	0.33	0.68	0.01					
				47	21	30	2		58	14	28					128	
2N/ 4W-19A 1 S	--	6.7	95	5	4	8	1	0	34	2	5	6.7	0.2	0.01	--	83	29
1-26-66				0.25	0.33	0.35	0.03		0.56	0.04	0.14	0.11					
				26	34	36	3		66	5	16	13				49	
	--	6.7	122	7	6	8	1	0	46	5	9	7.8	0.1	0	--	82	42
7-21-66				0.35	0.49	0.35	0.03		0.75	0.10	0.25	0.13					
				29	40	29	2		61	8	20	11				67	
2N/ 4W-20J 1 S	44	7.5	109	10	3	8	8	--	51	2	9	0.5	0.1	0	--	71	38
1-21-66				0.50	0.25	0.35	0.20		0.84	0.04	0.25	0.01					
				38	19	27	15		74	4	22	1				66	
	51	6.6	102	9	3	8	1	--	54	0	5	0.6	0.1	0	--	55	35
5- 6-66				0.45	0.25	0.35	0.03		0.89		0.14	0.01					
				42	23	32	3		86		13	1				53	
2N/ 4W-20L 1 S	49	7.5	271	37	6	8	1	--	148	5	9	0.5	0.1	0	--	145	117
12-28-65				1.85	0.49	0.35	0.03		2.43	0.10	0.25	0.01					
				68	18	13	1		87	4	9					139	
2N/ 4W-21N 3 S	53	7.5	280	31	9	12	4	0	146	12	8	1.4	0.2	0	--	180	115
4-26-66				1.55	0.74	0.52	0.10		2.39	0.25	0.23	0.02					
				53	25	18	3		83	9	8	1				149	
2N/ 4W-21NS1 S	52	7.8	233	21	11	10	2	--	113	11	9	0.0	0.1	0.02	--	133	98
9-28-66				1.05	0.90	0.43	0.05		1.85	0.23	0.25						
				43	37	18	2		79	10	11					120	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
MOJAVE HYDRO UNIT W2800																	
UPPER MOJAVE HYDRO SUBUNIT W28B0																	
2N/ 4W-21Q 2 S	52	7.0	121	11	3	9	1	--	59	3	7	1.0	0.1	0	--	74	40
5- 6-66				0.55	0.25	0.39	0.03		0.97	0.06	0.20	0.02					
				45	20	32	2		78	5	16	2				64	
2N/ 4W-21R 1 S	48	6.5	93	7	2	8	1	--	34	5	8	0.0	0.1	0	--	59	26
5- 6-66				0.35	0.16	0.35	0.03		0.56	0.10	0.23						
				39	18	39	3		63	11	26					48	
2N/ 4W-22E 3 S	53	7.1	166	13	5	10	2	0	54	11	10	11.0	0.1	0	--	100	53
5- 2-66				0.65	0.41	0.43	0.05		0.89	0.23	0.28	0.18					
				42	27	28	3		56	15	18	11				89	
2N/ 4W-22F 5 S	52	7.9	194	18	7	9	2	--	71	11	10	13.0	0.2	0	--	112	74
5- 2-66				0.90	0.58	0.39	0.05		1.16	0.23	0.28	0.21					
				47	30	20	3		62	12	15	11				105	
2N/ 4W-22E16 S	52	7.3	153	13	4	10	2	--	51	12	9	6.5	0.2	0	--	82	49
5- 2-66				0.65	0.33	0.43	0.05		0.84	0.25	0.25	0.10					
				45	23	29	3		58	17	17	7				82	
2N/ 4W-23FS1 S	50	7.5	240	31	7	9	2	--	145	6	4	0.8	0.2	0	--	126	107
5- 5-66				1.55	0.58	0.39	0.05		2.38	0.12	0.11	0.01					
				60	23	15	2		91	5	4					131	
2N/ 4W-27C 1 S	50	7.8	167	17	5	9	2	--	84	7	6	1.0	0.2	0	--	98	63
5- 2-66				0.85	0.41	0.39	0.05		1.38	0.15	0.17	0.02					
				50	24	23	3		80	9	10	1				89	
2N/ 5W-15H 1 S	49	7.3	167	12	6	9	2	0	51	12	10	11.0	0	0	--	85	55
1-21-66				0.60	0.49	0.39	0.05		0.84	0.25	0.28	0.18					
				39	32	25	3		54	16	18	12				87	
3N/ 4W-33QS1 S	62	7.8	279	21	12	20	2	--	154	7	9	2.3	0.4	0	--	150	102
4-28-66				1.05	0.99	0.87	0.05		2.52	0.15	0.25	0.04					
				35	33	29	2		85	5	8	1				149	
4N/ 3W- 1M 1 S	--	7.8	1500	104	30	163	5	0	129	215	290	3.5	0.7	0.65	--	1043	383
10- 1-65				5.19	2.47	7.09	0.13		2.11	4.48	8.18	0.06					
				35	17	48	1		14	30	55					875	
	--	7.8	1457	101	26	150	5	0	113	202	273	3.5	0.9	0.69	--	926	359
4- 6-66				5.04	2.14	6.52	0.13		1.85	4.21	7.70	0.06					
				36	15	47	1		13	30	56					818	
4N/ 3W- 6D 2 S	--	7.2	361	42	9	17	2	0	137	12	11	54	0.3	0.02	--	285	142
10- 1-65				2.10	0.74	0.74	0.05		2.25	0.25	0.31	0.87					
				58	20	20	1		61	7	8	24				215	
	--	7.1	450	45	14	20	2	0	149	16	14	73	0.5	0.04	--	322	170
4- 6-66				2.25	1.15	0.87	0.05		2.44	0.33	0.39	1.18					
				52	27	20	1		56	8	9	27				258	
4N/ 3W- 9N 2 S	--	7.5	154	9	8	10	1	0	79	4	6	3.7	0.3	0.01	--	115	56
5-24-66				0.45	0.66	0.43	0.03		1.29	0.08	0.17	0.06					
				29	42	27	2		81	5	11	4				81	
	--	7.6	144	11	7	10	1	0	74	4	4	2.5	0.4	0.01	--	119	57
11-15-65				0.55	0.58	0.43	0.03		1.21	0.08	0.11	0.04					
				35	36	27	2		84	6	8	3				76	
4N/ 3W-20L 1 S	--	7.6	301	37	8	15	2	0	147	15	8	12.0	0.4	0.02	--	206	126
11-15-65				1.85	0.66	0.65	0.05		2.41	0.31	0.23	0.19					
				58	21	20	2		77	10	7	6				170	
	--	7.6	2774	29	10	13	2	0	140	13	7	11	0.3	0.05	--	184	114
5-24-66				1.45	0.82	0.57	0.05		2.29	0.27	0.20	0.18					
				50	28	20	2		78	9	7	6				154	
4N/ 7W-24D 1 S	--	7.9	739	101	37	11	5	0	332	140	6	4.2	0.4	0.01	--	511	404
11- 9-65				5.04	3.04	0.48	0.13		5.44	2.91	0.17	0.07					
				58	35	6	1		63	34	2	1				468	
	--	8.1	761	108	35	11	6	2	348	138	6	4.3	0.5	0.02	--	526	414
5- 5-66				5.39	2.88	0.48	0.15	0.07	5.70	2.87	0.17	0.07					
				61	32	5	2	1	64	32	2	1				482	
5N/ 3W-24N 1 S	--	7.7	1412	80	30	162	5	0	116	176	281	0.3	1.6	0.50	--	1020	323
11-16-65				3.99	2.47	7.04	0.13		1.90	3.66	7.92						
				29	18	52	1		14	27	59					793	
5N/ 3W-25F 1 S	--	7.8	1267	56	19	169	4	0	34	183	256	0.2	1.0	0.36	--	734	218
11-16-65				2.79	1.56	7.35	0.10		0.56	3.81	7.22						
				24	13	62	1		5	33	62					705	
5N/ 3W-27E 1 S	--	7.7	693	46	15	78	4	0	126	178	40	5.2	1.4	0.63	--	524	177
11-15-65				2.30	1.23	3.39	0.10		2.07	3.71	1.13	0.08					
				33	18	48	1		30	53	16	1				430	

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ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
UPPER MOJAVE HYDRO SUBUNIT				W28B0		MOJAVE HYDRO UNIT				W2800							
5N/ 3W-35N 1 S	--	7.7	837	60	14	88	3	0	123	162	95	4.3	1.4	0.90	--	538	207
4- 6-66				2.99	1.15	3.83	0.08		2.02	3.37	2.68	0.07					
				37	14	48	1		25	41	33	1				489	
5N/ 4W- 8Q 0 S	--	8.4	186	6	3	34	1	2	101	3	7	2.3	0.3	0.01	--	149	28
11-15-65				0.30	0.25	1.48	0.03	0.07	1.66	0.06	0.20	0.04					
				15	12	72	1	3	82	3	10	2				108	
5N/ 4W- 8Q 1 S	--	8.1	197	5	5	32	2	0	106	0	11	2.5	0.3	0.01	--	123	33
5- 9-66				0.25	0.41	1.39	0.05		1.74		0.31	0.04					
				12	20	66	2		83		15	2				110	
5N/ 4W- 9G 2 S	--	8.0	187	5	1	37	1	0	108	2	6	2.3	0.3	0.01	--	118	17
5- 9-66				0.25	0.08	1.61	0.03		1.77	0.04	0.17	0.04					
				13	4	82	2		88	2	8	2				108	
5N/ 4W- 9J 1 S	--	8.7	191	4	2	36	1	7	98	9	6	1.1	0.3	0.03	--	129	18
11-15-65				0.20	0.16	1.57	0.03	0.23	1.61	0.19	0.17	0.02					
				10	8	80	2	10	73	9	8	1				115	
	--	8.1	192	7	1	37	1	0	101	9	8	1.5	0.3	0.02	--	120	22
5- 9-66				0.35	0.08	1.61	0.03		1.66	0.19	0.23	0.02					
				17	4	78	1		79	9	11	1				114	
5N/ 4W- 9P 1 S	--	7.2	189	5	6	30	1	0	106	6	6	1.3	0.3	0.05	--	182	37
11-15-65				0.25	0.49	1.30	0.03		1.74	0.12	0.17	0.02					
				12	24	63	1		85	6	8	1				108	
	--	8.1	190	6	6	28	1	0	106	3	6	1.0	0.2	0.02	--	122	40
5- 9-66				0.30	0.49	1.22	0.03		1.74	0.06	0.17	0.02					
				15	24	60	1		87	3	9	1				103	
5N/ 4W-10N 2 S	--	8.8	204	5	3	40	1	12	95	7	5	1.3	0.6	0.04	--	159	25
11-15-65				0.25	0.25	1.74	0.03	0.40	1.56	0.15	0.14	0.02					
				11	11	77	1	18	69	7	6	1				122	
	--	8.0	202	7	2	38	1	0	108	5	6	1.4	0.4	0.02	--	132	26
5- 9-66				0.35	0.16	1.65	0.03		1.77	0.10	0.17	0.02					
				16	7	75	1		86	5	8	1				114	
5N/ 4W-11P 2 S	--	8.3	216	12	5	28	1	2	85	19	11	1.0	0.5	0.11	--	112	51
11-16-65				0.60	0.41	1.22	0.03	0.07	1.39	0.40	0.31	0.02					
				27	18	54	1	3	63	18	14	1				121	
	--	8.2	296	4	5	46	1	0	69	29	36	0.1	0.5	0.21	--	186	31
5-24-66				0.20	0.41	2.00	0.03		1.13	0.60	1.02						
				8	16	76	1		41	22	37					156	
5N/ 4W-14A 1 S	--	8.3	171	6	5	25	1	2	85	8	4	0.0	0.6	0.08	--	118	36
11-16-65				0.30	0.41	1.09	0.03	0.07	1.39	0.17	0.11						
				16	22	60	2	4	80	10	6					93	
5N/ 4W-16M 1 S	--	8.2	188	5	6	30	1	5	98	5	5	1.2	0.3	0.05	--	168	37
11-15-65				0.25	0.49	1.30	0.03	0.17	1.61	0.10	0.14	0.02					
				12	24	63	1	8	79	5	7	1				107	
5N/ 4W-19J 0 S	--	9.0	204	0	2	42	1	13	70	3	9	8.4	0.5	0.02	--	178	8
11-15-65					0.16	1.83	0.03	0.43	1.15	0.06	0.25	0.14					
					8	91	1	21	57	3	12	7				113	
5N/ 4W-19J 1 S	--	8.3	201	0	2	43	1	0	101	1	9	8.8	0.4	0.02	--	135	8
5- 9-66					0.16	1.87	0.03		1.66	0.02	0.25	0.14					
					8	91	1		80	1	12	7				115	
5N/ 4W-20B 1 S	--	8.3	194	5	5	34	1	5	101	3	6	1.8	0.4	0.01	--	167	33
11-15-65				0.25	0.41	1.48	0.03	0.17	1.66	0.06	0.17	0.03					
				12	19	68	1										
	--	8.1	198	6	4	34	1	0	110	1	6	2.3	0.3	0.01	--	120	32
5- 9-66				0.30	0.33	1.48	0.03		1.80	0.02	0.17	0.04					
				14	15	69	1		89	1	8	2				109	
5N/ 4W-20H 1 S	--	8.1	202	15	6	21	2	0	110	3	6	3.0	0.3	0.02	--	143	62
11-15-65				0.75	0.49	0.91	0.05		1.80	0.06	0.17	0.05					
				34	22	41	2		87	3	8	2				110	
	--	8.0	203	13	8	18	2	0	118	0	7	2.0	0.2	0.01	--	116	66
5- 9-66				0.65	0.66	0.78	0.05		1.93		0.20	0.03					
				30	31	36	2		89		9	1				108	
5N/ 4W-24A 1 S	--	8.3	171	6	5	25	1	2	85	8	4	0	0.6	0.08	--	118	36
11-16-65				0.30	0.41	1.09	0.03	0.07	1.39	0.17	0.11						
				16	22	60	2	4	80	10	6					93	
	--	8.2	176	5	5	26	1	0	88	7	7	1.1	0.5	0.09	--	136	33
5-24-66				0.25	0.41	1.13	0.03		1.44	0.15	0.20	0.02					
				14	23	62	2		80	8	11	1				96	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER			TDS 180C 105C COMP	HARD-NESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
UPPER MOJAVE HYDRO SUBUNIT				W28B0		MOJAVE HYDRO UNIT				W2800							
5N/ 4W-24X 1 S	--	8.7	212	5	1	42	1	10	77	3	10	9.5	0.5	0.02	--	172	17
11-15-65				0.25	0.08	1.83	0.03	0.33	1.26	0.06	0.28	0.15					
				11	4	84	1	16	61	3	13	7				120	
	--	8.2	237	6	5	39	2	0	110	5	12	4.0	0.4	0.01	--	148	36
5- 9-66				0.30	0.41	1.70	0.05		1.80	0.10	0.34	0.06					
				12	17	69	2		78	4	15	3				127	
5N/ 5W-22E 2 S	--	8.1	431	29	6	51	3	0	72	142	2	1.7	0.4	0.01	--	287	97
11- 9-65				1.45	0.49	2.22	0.08		1.18	2.96	0.06	0.03					
				34	12	52	2		28	70	1	1				271	
	--	7.9	435	26	7	51	3	0	67	141	4	1.4	0.4	0.02	--	306	94
5- 5-66				1.30	0.58	2.22	0.08		1.10	2.94	0.11	0.02					
				31	14	53	2		26	71	3					267	
6N/ 3W- 9D 1 S	--	8.4	775	5	2	156	2	13	57	208	32	0.5	15.8	--	--	473	21
11-16-65				0.25	0.16	6.78	0.05	0.43	0.93	4.33	0.90	0.01					
				3	2	94	1	7	14	66	14					462	
6N/ 3W- 9E 1 S	--	8.3	1773	35	9	344	4	10	232	398	141	42.0	12.4	1.90	--	1164	125
11-16-65				1.75	0.74	14.96	0.10	0.33	3.80	8.29	3.98	0.68					
				10	4	85	1	2	22	49	23	4				1111	
6N/ 3W-28R 1 S	--	7.9	838	64	23	72	2	0	116	159	83	46.0	0.8	0.02	--	631	254
11-15-65				3.19	1.89	3.13	0.05		1.90	3.31	2.34	0.74					
				39	23	38	1		23	40	28	9				507	
	--	8.1	840	75	16	74	2	0	115	157	86	49	0.7	0.22	--	596	253
5-24-66				3.74	1.32	3.22	0.05		1.88	3.27	2.43	0.79					
				45	16	39	1		22	39	29	9				516	
6N/ 3W-32R 1 S	--	7.1	903	86	17	74	3	0	131	135	117	43.0	0.9	0.19	--	573	285
11-16-65				4.29	1.40	3.22	0.08		2.15	2.81	3.30	0.69					
				48	16	36	1		24	31	37	8				540	
	--	7.8	907	86	15	74	3	0	135	132	114	43	0.7	0.18	--	594	276
5-25-66				4.29	1.23	3.22	0.08		2.21	2.75	3.21	0.69					
				49	14	37	1		25	31	36	8				534	
	--	7.1	903	86	17	74	3	0	131	135	117	43.0	0.9	0.19	--	573	285
11-16-65				4.29	1.40	3.22	0.08		2.15	2.81	3.30	0.69					
				48	16	36	1		24	31	37	8				540	
	--	7.8	907	86	15	74	3	0	135	132	114	43	0.7	0.18	--	594	276
5-25-66				4.29	1.23	3.22	0.08		2.21	2.75	3.21	0.69					
				49	14	37	1		25	31	36	8				534	
6N/ 4W- 6D 1 S	--	7.4	1004	101	22	83	3	0	258	175	88	0	0.7	0.13	--	631	343
11-16-65				5.04	1.81	3.61	0.08		4.23	3.64	2.48						
				48	17	34	1		41	35	24					600	
	--	7.5	1060	119	20	85	3	0	277	198	98	0.3	0.6	0.15	--	691	379
5-25-66				5.94	1.64	3.70	0.08		4.54	4.12	2.76						
				52	14	33	1		40	36	24					660	
6N/ 4W-29N 2 S	--	7.6	471	43	12	42	2	0	209	34	30	0	0.5	0.10	--	326	157
11-15-65				2.15	0.99	1.83	0.05		3.43	0.71	0.85						
				43	20	36	1		69	14	17					266	
6N/ 5W- 1H 1 S	--	6.7	1330	122	27	139	4	0	287	309	110	0	0.7	0.22	--	902	416
10-19-65				6.09	2.22	6.04	0.10		4.70	6.43	3.10						
				42	15	42	1		33	45	22					853	
6N/ 5W- 2E99 S	--	7.8	476	45	7	48	2	0	196	47	30	0.9	0.5	0.09	--		142
11- 9-65				2.25	0.58	2.09	0.05		3.21	0.98	0.85	0.01				279	
				45	12	42	1		64	19	17					277	
	--	8.0	473	40	8	49	2	0	184	49	31	1.6	0.5	0.10	--		133
5- 5-66				2.00	0.66	2.13	0.05		3.02	1.02	0.87	0.03				298	
				41	14	44	1		61	21	18	1				272	
6N/ 5W- 8F 1 S	--	8.3	460	6	4	89	1	0	126	112	6	0.3	0.6	0.09	--	307	32
11- 9-65				0.30	0.33	3.87	0.03		2.07	2.33	0.17						
				7	7	85	1		45	51	4					281	
	--	8.3	456	6	3	90	1	14	98	110	3	1.4	0.6	0.10	--	304	28
5- 5-66				0.30	0.25	3.91	0.03	0.47	1.61	2.29	0.08	0.02					
				7	6	87	1	11	36	51	2					277	
6N/ 5W-29J 2 S	--	7.9	485	45	8	50	2	0	203	47	30	0.8	0.5	0.10	--	297	146
11- 9-65				2.25	0.66	2.17	0.05		3.33	0.98	0.85	0.01					
				44	13	42	1		64	19	16					283	
	--	7.9	485	45	8	50	2	0	203	47	3	0.8	0.5	0.10	--	297	146
11- 9-65				2.25	0.66	2.17	0.05		3.33	0.98	0.08	0.01					
				44	13	42	1		76	22	2					256	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
						MOJAVE HYDRO UNIT				W2800							
6N/ 5W-29J 2 S	--	8.1	477	44	8	51	2	0	196	48	29	0.3	0.5	0.10	--	289	14
5- 5-66				2.20	0.66	2.22	0.05		3.21	1.00	0.82						
				43	13	43	1		64	20	16					279	
7N/ 4W- 7C 1 S	--	7.2	1384	138	29	146	4	0	231	421	117	1.8	0.8	0.24	--	1028	46
6-16-66				6.89	2.38	6.35	0.10		3.79	8.77	3.30	0.03					
				44	15	40	1		24	55	21					971	
7N/ 4W-31N 1 S	--	7.8	737	83	13	55	2	0	268	79	56	0	0.7	0.13	--	453	26
11-16-65				4.14	1.07	2.39	0.05		4.39	1.64	1.58						
				54	14	31	1		58	22	21					421	
	--	7.9	691	77	15	52	2	0	260	80	50	0.2	0.5	0.14	--	437	25
5-25-66				3.84	1.23	2.26	0.05		4.26	1.67	1.41						
				52	17	31	1		58	23	19					405	
MIDDLE MOJAVE HYDRO SUBUNIT				W28C0													
					W28C0												
8N/ 4W-12P 1 S	--	7.2	1461	163	35	111	4	0	469	156	139	54	0.6	0.17	--	1025	55
11-29-65				8.13	2.88	4.83	0.10		7.69	3.25	3.92	0.87					
				51	18	30	1		49	21	25	6				893	
	--	7.6	1607	149	24	165	3	0	532	178	135	9.4	0.7	0.27	--	971	47
6-16-66				7.44	1.97	7.17	0.08		8.72	3.71	3.81	0.15					
				45	12	43			53	23	23	1				926	
8N/ 4W-15E 1 S	--	8.0	604	55	12	58	2	0	194	84	37	12	0.6	0.15	--	363	18
3-31-66				2.74	0.99	2.52	0.05		3.18	1.75	1.04	0.19					
				43	16	40	1		52	28	17	3				356	
8N/ 4W-15E 3 S	--	8.1	614	54	13	60	2	0	199	88	40	12	0.7	0.16	--	384	18
4- 1-66				2.69	1.07	2.61	0.05		3.26	1.83	1.13	0.19					
				42	17	41	1		51	29	18	3				368	
8N/ 4W-20A 1 S	--	7.8	1598	85	13	241	3	0	234	250	232	12	1.0	0.59	--	1028	266
11-29-65				4.24	1.07	10.48	0.08		3.84	5.21	6.54	0.19					
				27	7	66	1		24	33	41	1				953	
	--	8.0	1909	107	20	318	3	0	258	310	365	10.5	0.8	0.66	--	1216	349
6-16-66				5.34	1.64	13.83	0.08		4.23	6.45	10.29	0.17					
				26	8	66			20	31	49	1				1262	
8N/ 4W-21C 1 S	--	7.4	1506	164	32	133	3	0	124	549	101	1.2	0.9	0.25	--	1170	541
11-29-65				8.18	2.63	5.78	0.08		2.03	11.43	2.85	0.02					
				49	16	35			12	70	17					1045	
	--	7.6	1200	129	24	103	3	0	179	395	73	0	0.8	0.19	--	874	421
6-16-66				6.44	1.97	4.48	0.08		2.93	8.22	2.06						
				50	15	35	1		22	62	16					816	
8N/ 4W-31R 1 S	--	7.3	1260	89	13	178	3	0	368	239	82	3.1	2.1	0.57	--	828	276
11-29-65				4.44	1.07	7.74	0.08		6.03	4.98	2.31	0.05					
				33	8	58	1		45	37	17					791	
	--	7.5	1800	159	28	234	4	0	488	397	124	7.6	0.6	0.38	--	1263	512
6-16-66				7.93	2.30	10.17	0.10		8.00	8.27	3.50	0.12					
				39	11	50			40	42	18	1				1194	
9N/ 2W- 1C 1 S	--	7.9	749	76	11	69	3	--	204	136	34	2.2	0.5	--	--	505	235
5- 4-66				3.79	0.90	3.00	0.08		3.34	2.83	0.96	0.04					
				49	12	39	1		47	39	13	1				432	
9N/ 2W- 1F 2 S	--	7.8	742	51	13	90	2	0	206	116	56	9.5	0.9	0.41	--	479	181
11-29-65				2.54	1.07	3.91	0.05		3.38	2.42	1.58	0.15					
				34	14	52	1		45	32	21	2				440	
	--	7.9	764	61	12	83	3	0	196	126	60	14	0.8	0.37	--	514	202
6-16-66				3.04	0.99	3.61	0.08		3.21	2.62	1.69	0.23					
				39	13	47	1		41	34	22	3				456	
9N/ 2W- 6B 1 S	--	7.6	336	26	8	33	2	0	139	28	18	3.4	0.7	0.08	--	227	98
11-29-65				1.30	0.66	1.43	0.05		2.28	0.58	0.51	0.05					
				38	19	42	1		67	17	15	1				187	
	--	7.9	342	26	9	34	3	0	135	28	29	3.6	0.6	0.07	--	229	102
6-17-66				1.30	0.74	1.48	0.08		2.21	0.58	0.82	0.06					
				36	21	41	2		60	16	22	2				200	
9N/ 2W-17E 1 S	--	7.8	746	27	10	123	3	0	209	117	51	3.8	3.7	1.00	--	486	109
11-29-65				1.35	0.82	5.35	0.08		3.43	2.44	1.44	0.06					
				18	11	70	1		47	33	20	1				442	
	--	7.9	758	22	13	127	3	0	204	123	52	3.8	4.3	0.87	--	519	109
6-16-66				1.10	1.07	5.52	0.08		3.34	2.56	1.47	0.06					
				14	14	71	1		45	34	20	1				449	

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ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
MOJAVE HYDRO UNIT W2800																	
MIDDLE MOJAVE HYDRO SUBUNIT W28C0																	
9N/ 3W- 3A 2 S	--	8.0	605	51	9	66	2	0	211	61	53	2.1	0.8	0.12	--	338	164
11-30-65				2.54	0.74	2.87	0.05		3.46	1.27	1.49	0.03					
				41	12	46	1		55	20	24					349	
	--	7.7	591	45	11	66	2	0	209	60	50	2.1	0.7	0.15	--	374	158
6-17-66				2.25	0.90	2.87	0.05		3.43	1.25	1.41	0.03					
				37	15	47	1		56	20	23					340	
9N/ 3W-24J 1 S	--	7.8	597	31	9	86	3	0	211	72	39	1.0	1.4	0.29	--	408	115
11-29-65				1.55	0.74	3.74	0.08		3.46	1.50	1.10	0.02					
				25	12	61	1		57	25	18					346	
	--	7.9	593	29	10	85	3	0	206	74	40	0.5	1.4	0.29	--	380	114
6-16-66				1.45	0.82	3.70	0.08		3.38	1.54	1.13	0.01					
				24	14	61	1		56	25	19					344	
9N/ 3W-26H 1 S	--	7.9	692	13	8	127	3	0	175	123	42	6.2	1.8	0.77	--	446	66
11-29-65				0.65	0.66	5.52	0.08		2.87	2.56	1.18	0.10					
				9	10	80	1		43	38	18	1				411	
	--	8.1	677	13	8	125	3	0	171	124	44	6.9	1.9	0.68	--	450	66
6-16-66				0.65	0.66	5.44	0.08		2.80	2.58	1.24	0.11					
				10	10	80	1		42	38	18	2				410	
9N/ 3W-28A 1 S	--	7.2	1478	142	27	133	4	0	253	265	186	9.0	0.7	0.29	--	1035	466
11-29-65				7.09	2.22	5.78	0.10		4.15	5.52	5.25	0.15					
				47	15	38	1		28	37	35	1				891	
	--	7.7	1151	107	20	113	4	0	201	233	126	10.9	0.7	0.32	--	764	349
6-17-66				5.34	1.64	4.91	0.10		3.29	4.85	3.55	0.18					
				45	14	41	1		28	41	30	2				714	
9N/ 3W-28L 1 S	--	7.8	1033	62	13	148	6	0	221	241	68	7.9	1.7	0.75	--	664	208
9-29-66				3.09	1.07	6.44	0.15		3.62	5.02	1.92	0.13					
				29	10	60	1		34	47	18	1				657	
10N/ 2W-30Q 1 S	--	8.0	424	33	9	44	2	0	183	33	24	1.4	0.6	0.09	--	228	120
11-30-65				1.65	0.74	1.91	0.05		3.00	0.69	0.68	0.02					
				38	17	44	1		68	16	15					237	
	--	8.1	384	34	6	41	2	0	167	26	23	0.8	0.6	0.09	--	245	110
6-16-66				1.70	0.49	1.78	0.05		2.74	0.54	0.65	0.01					
				42	12	44	1		70	14	16					216	
10N/ 3W-15Q 3 S	--	8.1	754	49	12	87	2	0	159	84	100	7.7	0.6	0.20	--	477	172
6-29-66				2.45	0.99	3.78	0.05		2.61	1.75	2.82	0.12					
				34	14	52	1		36	24	39	2				421	
10N/ 3W-26F 3 S	--	7.2	3361	433	81	274	5	0	383	732	610	30	0.5	1.18	--	2684	1415
9-29-66				21.61	6.66	11.91	0.13		6.28	15.24	17.20	0.48					
				54	17	30			16	39	44	1				2355	
10N/ 3W-26F 5 S	--	7.5	3519	516	90	233	7	0	353	818	670	25	0.3	1.38	--	3090	1659
9-29-66				25.75	7.40	10.13	0.18		5.79	17.03	18.89	0.40					
				59	17	23			14	40	45	1				2534	
10N/ 3W-27D 1 S	--	7.9	845	61	14	95	2	0	180	144	88	3.3	0.7	0.33	--	475	210
11-30-65				3.04	1.15	4.13	0.05		2.95	3.00	2.48	0.05					
				36	14	49	1		35	35	29	1				497	
MIDDLE MOJAVE HYDRO SUBUNIT W28C0																	
10N/ 3W-27D 1 S	--	7.8	802	61	11	91	3	0	176	135	83	3.1	0.7	0.36	--	535	197
6-17-66				3.04	0.90	3.96	0.08		2.88	2.81	2.34	0.05					
				38	11	50	1		36	35	29	1				475	
10N/ 3W-35E 1 S	--	8.0	401	23	7	50	2	0	137	27	40	0.2	0.8	0.19	--	252	87
11-30-65				1.15	0.58	2.17	0.05		2.25	0.56	1.13						
				29	15	55	1		57	14	29					217	
	--	7.9	394	19	11	50	2	0	135	24	41	0	0.7	0.18	--	293	93
6-17-66				0.95	0.90	2.17	0.05		2.21	0.50	1.16						
				23	22	53	1		57	13	30					214	
10N/ 3W-36J 2 S	--	7.8	636	61	14	50	2	0	165	94	59	4.8	0.7	0.13	--	435	210
11-29-65				3.04	1.15	2.17	0.05		2.70	1.96	1.66	0.08					
				47	18	34	1		42	31	26	1				367	
	--	7.6	524	51	9	43	3	0	159	64	44	2.3	2.2	0.08	--	324	164
6-16-66				2.54	0.74	1.87	0.08		2.61	1.33	1.24	0.04					
				49	14	36	2		50	25	24	1				297	
HARPER HYDRO SUBUNIT W28D0																	
HARPER HYDRO SUBAREA W28D2																	
9N/ 4W-15E 2 S	--	8.1	604	55	12	57	2	0	194	84	38	12	0.6	0.15	--	359	187
3-31-66				2.74	0.99	2.48	0.05		3.18	1.75	1.07	0.19					
				44	16	40	1		51	28	17	3				356	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
MOJAVE HYDRO UNIT W2800																	
LOWER MOJAVE HYDRO SUBUNIT W28E0																	
9N/ 1E- 1L 1 S	--	7.6	499	41	9	53	2	0	206	38	32	4.7	0.6	0.19	--	307	140
12- 1-65				2.05	0.74	2.30	0.05		3.38	0.79	0.90	0.08					
				40	14	45	1		66	15	17	2				282	
	--	7.7	493	41	9	50	0	0	204	36	33	7.7	0.5	0.26	--	326	140
6-22-66				2.05	0.74	2.17			3.34	0.75	0.93	0.12					
				41	15	44			65	15	18	2				278	
LOWER MOJAVE HYDRO SUBUNIT W28E0																	
9N/ 1E- 1L 4 S	--	7.6	499	41	9	54	2	0	206	38	30	4.8	0.6	0.16	--	306	140
12- 1-65				2.05	0.74	2.35	0.05		3.38	0.79	0.85	0.08					
				39	14	45	1		66	15	17	2				281	
	--	8.3	514	48	7	52	1	0	206	29	39	5.0	0.5	0.16	--	344	149
6-22-66				2.40	0.58	2.26	0.03		3.38	0.60	1.10	0.08					
				46	11	43	1		66	12	21	2				283	
9N/ 1E-13E 1 S	--	8.1	714	57	11	83	2	0	223	95	62	5.5	0.6	0.44	--	464	187
6-22-66				2.84	0.90	3.61	0.05		3.65	1.98	1.75	0.09					
				38	12	49	1		49	27	23	1				426	
9N/ 1E-13E 2 S	--	8.2	919	90	16	106	3	0	324	125	80	18	0.6	0.64	--	654	291
6-22-66				4.49	1.32	4.61	0.08		5.31	2.60	2.26	0.29					
				43	13	44	1		51	25	22	3				599	
9N/ 1E-15N 2 S	--	7.3	1159	94	20	135	3	0	361	157	102	8.1	0.6	0.66	--	671	317
12- 1-65				4.69	1.64	5.87	0.08		5.92	3.27	2.88	0.13					
				38	13	48	1		49	27	24	1				698	
	--	7.5	1138	92	16	140	4	0	368	152	101	5.8	0.5	0.65	--	736	296
6-17-66				4.59	1.32	6.09	0.10		6.03	3.16	2.85	0.09					
				38	11	50	1		50	26	23	1				693	
9N/ 2E- 8N 2 S	--	7.9	348	26	7	39	2	0	160	24	14	2.8	0.7	0.09	--	195	94
12- 1-65				1.30	0.58	1.70	0.05		2.62	0.50	0.39	0.05					
				36	16	47	1		74	14	11	1				194	
	--	8.0	346	26	7	39	1	0	152	20	18	2.2	0.6	0.11	--	235	94
6-22-66				1.30	0.58	1.70	0.03		2.49	0.42	0.51	0.04					
				36	16	47	1		72	12	15	1				189	
9N/ 2E-18E 1 S	--	7.7	726	70	11	68	3	0	247	87	52	13.0	0.6	0.17	--	400	220
12- 1-65				3.49	0.90	2.96	0.08		4.05	1.81	1.47	0.21					
				47	12	40	1		54	24	19	3				426	
	--	7.8	614	57	10	59	2	0	204	72	45	9.8	0.6	0.15	--	401	183
6-22-66				2.84	0.82	2.57	0.05		3.34	1.50	1.27	0.16					
				45	13	41	1		53	24	20	3				356	
9N/ 2E-36C 1 S	--	8.0	487	31	7	62	4	0	152	61	39	1.9	0.7	0.53	--	331	107
11- 2-65				1.55	0.58	2.70	0.10		2.49	1.27	1.10	0.03					
				31	12	55	2		51	26	22	1				282	
10N/ 2E-31R 1 S	--	7.8	655	28	9	99	3	0	167	102	56	2.0	0.8	1.11	--	413	107
12- 1-65				1.40	0.74	4.30	0.08		2.74	2.12	1.58	0.03					
				21	11	66	1		42	33	24					383	
10N/ 2E-31R 1 S	--	8.2	637	28	9	94	2	0	164	92	57	1.6	0.7	0.96	--	433	107
6-22-66				1.40	0.74	4.09	0.05		2.69	1.92	1.61	0.03					
				22	12	65	1		43	31	26					366	
10N/ 4E- 5M 1 S	--	8.7	1071	0	1	250	1	20	400	93	39	1.9	17.5	1.83	--	652	4
2-14-66					0.08	10.87	0.03	0.67	6.56	1.94	1.10	0.03					
					1	99		7	64	19	11					622	
10N/ 4E-19J 2 S	--	7.9	399	7	5	69	3	0	86	47	44	2.4	0.8	0.29	--	224	38
2-14-66				0.35	0.41	3.00	0.08		1.41	0.98	1.24	0.04					
				9	11	78	2		38	27	34	1				221	
9N/ 1W-10D 2 S	--	7.4	778	70	16	78	3	0	265	117	51	1.0	0.5	0.19	--	495	241
12- 1-65				3.49	1.32	3.39	0.08		4.34	2.44	1.44	0.02					
				42	16	41	1		53	30	17					467	
	--	7.8	638	61	11	62	2	0	223	86	41	1.0	0.4	0.17	--	422	197
6-22-66				3.04	0.90	2.70	0.05		3.65	1.79	1.16	0.02					
				45	13	40	1		55	27	18					374	
9N/ 1W-10G 1 S	--	7.4	929	74	15	106	3	0	286	159	60	2.2	0.6	0.27	--	574	246
12- 1-65				3.69	1.23	4.61	0.08		4.69	3.31	1.69	0.04					
				38	13	48	1		48	34	17					561	
	--	7.7	1652	117	21	238	4	0	461	320	122	14	0.7	0.53	--	1113	379
6-22-66				5.84	1.73	10.35	0.10		7.56	6.66	3.44	0.23					
				32	10	57	1		42	37	19	1				1064	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
						MOJAVE HYDRO UNIT					W2800						
9N/ 1W-13H 1 S	--	8.3	891	67	12	110	3	0	231	123	96	5.6	0.7	0.42	--	561	217
6-17-66				3.34	0.99	4.78	0.08		3.79	2.56	2.71	0.09					
				36	11	52	1		41	28	30	1				531	
10N/ 1W-32J 1 S	--	7.9	592	54	9	60	3	0	219	75	35	1.9	0.6	0.14	--	346	172
12- 1-65				2.69	0.74	2.61	0.08		3.59	1.56	0.99	0.03					
				44	12	43	1		58	25	16					346	
	--	7.9	742	69	12	75	3	0	236	121	45	1.7	0.5	0.17	--	492	222
6-22-66				3.44	0.99	3.26	0.08		3.87	2.52	1.27	0.03					
				44	13	42	1		50	33	17					443	
						LUCERNE HYDRO UNIT					X0100						
4N/ 1E- 1R 2 S	--	8.2	1167	24	6	212	5	0	131	252	118	2.4	4.9	0.81	--	709	85
10- 6-65				1.20	0.49	9.22	0.13		2.15	5.25	3.33	0.04					
				11	4	84	1		20	49	31					690	
	--	8.2	1136	19	7	208	5	--	125	250	118	0.3	4.5	0.73	--	675	77
4-11-66				0.95	0.58	9.04	0.13		2.05	5.21	3.33						
				9	5	84	1		19	49	31					674	
4N/ 1E- 6H 1 S	--	7.8	565	53	22	38	2	0	209	111	21	2.3	0.4	0.05	--	372	223
10- 1-65				2.64	1.81	1.65	0.05		3.43	2.31	0.59	0.04					
				43	29	27	1		54	36	9	1				352	
	--	7.9	637	61	22	42	2	0	204	127	27	2.8	0.4	0.13	--	403	243
4- 7-66				3.04	1.81	1.83	0.05		3.34	2.64	0.76	0.05					
				45	27	27	1		49	39	11	1				385	
4N/ 1E- 6Q 1 S	--	7.7	861	80	37	45	2	0	188	146	102	7.3	0.7	0.08	--	643	352
10- 1-65				3.99	3.04	1.96	0.05		3.08	3.04	2.88	0.12					
				44	34	22	1		34	33	32	1				512	
	--	7.6	1228	117	52	56	3	0	152	226	173	13	0.7	0.11	--	859	506
4- 7-66				5.84	4.28	2.43	0.08		2.49	4.71	4.88	0.21					
				46	34	19	1		20	38	40	2				716	
4N/ 1E- 9A 1 S	--	7.8	573	55	21	34	2	0	129	151	21	1.7	0.5	0.03	--	395	224
10- 6-65				2.74	1.73	1.48	0.05		2.11	3.14	0.59	0.03					
				46	29	25	1		36	53	10	1				350	
	--	7.8	573	56	20	34	2	--	128	150	23	1.8	0.5	0.07	--	358	222
4-11-66				2.79	1.64	1.48	0.05		2.10	3.12	0.65	0.03					
				47	28	25	1		36	53	11	1				350	
4N/ 1E-12P 2 S	--	7.7	803	46	37	62	4	0	121	145	99	6.4	0.7	0.05	--	599	267
10- 6-65				2.30	3.04	2.70	0.10		1.98	3.02	2.79	0.10					
				28	37	33	1		25	38	35	1				460	
	--	7.9	803	41	38	61	4	--	123	139	100	5.0	0.7	0.08	--	488	259
4-11-66				2.05	3.13	2.65	0.10		2.02	2.89	2.82	0.08					
				26	39	33	1		26	37	36	1				449	
4N/ 1E-32A 1 S	--	7.7	612	39	21	62	13	0	286	62	18	0.0	1.3	0.15	--	368	184
10- 6-65				1.95	1.73	2.70	0.33		4.69	1.29	0.51						
				29	26	40	5		72	20	8					357	
	--	8.1	609	35	23	60	15	5	270	63	18	0	1.2	0.15	--	363	182
5- 2-66				1.75	1.89	2.61	0.38	0.17	4.43	1.31	0.51						
				26	29	39	6	3	69	20	8					353	
4N/ 2E- 7N 2 S	--	7.7	1191	78	45	103	6	0	95	289	147	1.4	0.9	0.20	--	819	380
10- 6-65				3.89	3.70	4.48	0.15		1.56	6.02	4.15	0.02					
				32	30	37	1		13	51	35					717	
	--	7.8	1188	79	42	103	6	--	98	291	149	1.4	0.9	0.22	--	766	370
4-11-66				3.94	3.45	4.48	0.15		1.61	6.06	4.20	0.02					
				33	29	37	1		14	51	35					721	
4N/ 2E-17B 1 S	--	7.9	525	32	16	54	3	0	131	83	33	22.0	0.8	0.05	--	325	146
10- 6-65				1.60	1.32	2.35	0.08		2.15	1.73	0.93	0.35					
				30	25	44	1		42	34	18	7				308	
	--	7.9	609	39	19	56	3	--	128	95	45	34	0.8	0.17	--	361	176
4-11-66				1.95	1.56	2.43	0.08		2.10	1.98	1.27	0.55					
				32	26	40	1		36	34	22	9				355	
4N/ 3E-31F 1 S	--	7.9	894	60	21	99	5	--	145	277	40	2.0	1.3	0.29	--	591	236
4-11-66				2.99	1.73	4.30	0.13		2.38	5.77	1.13	0.03					
				33	19	47	1		26	62	12					577	
5N/ 1E-15G 1 S	--	7.6	7305	224	15	1278	70	0	90	519	2030	0.2	4.3	5.95	--	4330	621
12-17-65				11.18	1.23	55.57	1.79		1.48	10.81	57.25						
				16	2	80	3		2	16	82					4191	

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ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
				LUCERNE HYDRO UNIT							X0100						
5N/ 1E-17C 2 S	--	7.5	5074	196	36	888	11	0	90	672	1210	0.4	3.3	4.65	--	3164	638
10- 6-65				9.78	2.96	38.61	0.28		1.48	13.99	34.12	0.01					
				19	6	75	1		3	28	69					3066	
	--	7.5	4878	196	25	840	10	0	86	682	1222	0.1	3.5	4.60	--	3119	592
4-11-66				9.78	2.06	36.52	0.26		1.41	14.20	34.46						
				20	4	75	1		3	28	69					3025	
5N/ 1E-19P 1 S	--	7.6	3321	321	97	215	5	0	128	329	879	2.2	0.5	0.08	--	2997	1201
4- 7-66				16.02	7.98	9.35	0.13		2.10	6.85	24.79	0.04					
				48	24	28			6	20	73					1912	
5N/ 1E-21R 1 S	--	7.6	7225	279	20	1248	27	--	22	580	2050	0.6	5.4	3.00	--	4563	779
4- 7-66				13.92	1.64	54.26	0.69		0.36	12.08	57.81	0.01					
				20	2	77	1		1	17	82					4224	
5N/ 1E-23C 1 S	--	7.4	9775	306	26	1860	8	0	95	726	2925	1.0	4.9	6.70	--	6094	871
10- 6-65				15.27	2.14	80.87	0.20		1.56	15.12	82.49	0.02					
				16	2	82			2	15	83					5910	
	--	7.8	9381	289	25	1776	18	--	101	699	2808	0.8	4.9	6.90	--	5816	825
4-11-66				14.42	2.06	77.22	0.46		1.66	14.55	79.19	0.01					
				15	2	82			2	15	83					5677	
5N/ 1E-28A 1 S	--	7.4	4600	151	26	820	14	0	124	566	1105	1.0	5.2	2.95	--	2824	484
10- 6-65				7.53	2.14	35.65	0.36		2.03	11.78	31.16	0.02					
				16	5	78	1		5	26	69					2752	
5N/ 1E-28X 1 S	--	7.8	3827	119	11	704	13	0	93	447	985	1.0	5.4	2.40	--	2310	342
6- 1-66				5.94	0.90	30.61	0.33		1.52	9.31	27.78	0.02					
				16	2	81	1		4	24	72					2334	
5N/ 1E-29N 1 S	--	7.7	857	72	35	47	2	0	149	76	148	2.7	0.4	0.05	--	531	324
10- 6-65				3.59	2.88	2.04	0.05		2.44	1.58	4.17	0.04					
				42	34	24	1		30	19	51					456	
	--	7.6	787	72	26	46	2	--	157	78	122	2.0	0.5	0.07	--	457	287
4- 7-66				3.59	2.14	2.00	0.05		2.57	1.62	3.44	0.03					
				46	28	26	1		34	21	45					426	
5N/ 1E-31F 1 S	--	7.8	816	75	32	46	2	0	193	122	99	4.3	0.5	0.02	--	542	319
10- 1-65				3.74	2.63	2.00	0.05		3.16	2.54	2.79	0.07					
				44	31	24	1		37	30	33	1				476	
	--	7.9	557	47	15	46	2	0	164	87	40	1.5	0.4	0.06	--	324	179
4- 7-66				2.35	1.23	2.00	0.05		2.69	1.81	1.13	0.02					
				42	22	36	1		48	32	20					320	
5N/ 1E-32P 1 S	--	7.4	1850	136	67	189	3	0	353	409	210	27.0	2.8	0.45	--	1342	615
10- 1-65				6.79	5.51	8.22	0.08		5.79	8.52	5.92	0.44					
				33	27	40			28	41	29	2				1218	
	--	7.6	1782	134	60	186	3	--	329	394	195	28	0.5	0.47	--	1211	581
4- 7-66				6.69	4.93	8.09	0.08		5.39	8.20	5.50	0.45					
				34	25	41			26	42	28	2				1163	
5N/ 1E-32R 1 S	--	7.8	647	50	23	51	2	0	131	173	31	0.5	0.7	0.06	--	421	220
10- 1-65				2.50	1.89	2.22	0.05		2.15	3.60	0.87	0.01					
				38	28	33	1		32	54	13					396	
	--	8.1	608	49	20	47	2	0	130	158	28	0.5	0.6	0.10	--	402	205
4- 7-66				2.45	1.64	2.04	0.05		2.13	3.29	0.79	0.01					
				40	27	33	1		34	53	13					369	
5N/ 1E-35E 2 S	--	7.6	1182	55	30	139	5	0	129	222	162	1.1	1.6	0.67	--	732	261
12- 9-65				2.74	2.47	6.04	0.13		2.11	4.62	4.57	0.02					
				24	22	53	1		19	41	40					680	
5N/ 1E-35G 1 S	--	8.0	991	12	5	195	4	0	120	153	145	3.3	3.0	0.68	--	589	51
7- 2-66				0.60	0.41	8.48	0.10		1.97	3.19	4.09	0.05					
				6	4	88	1		21	34	44	1				580	
4N/ 1W- 1J 1 S	--	7.9	535	44	22	39	2	0	209	91	19	2.7	0.8	0.02	--	337	201
10- 1-65				2.20	1.81	1.70	0.05		3.43	1.89	0.54	0.04					
				38	31	30	1		58	32	9	1				323	
	--	7.9	555	46	22	39	2	--	194	93	24	4.2	0.6	0.05	--	337	206
4- 7-66				2.30	1.81	1.70	0.05		3.18	1.94	0.68	0.07					
				39	31	29	1		54	33	12	1				326	
4N/ 1W- 1P 2 S	--	7.7	1080	101	55	47	3	0	180	252	111	38.0	0.6	0	--	768	478
10- 1-65				5.04	4.52	2.04	0.08		2.95	5.25	3.13	0.61					
				43	39	17	1		25	44	26	5				696	
	--	7.6	1958	115	69	243	4	0	525	490	106	23	0.7	0.52	--	1370	571
4- 6-66				5.74	5.67	10.57	0.10		8.60	10.20	2.99	0.37					
				26	26	48			39	46	13	2				1309	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
								LUCERNE HYDRO UNIT			X0100						
4N/ 1W- 2H 4 S	--	7.7	2612	174	86	226	5	0	162	156	692	3.4	0.7	0.27	--	2059	788
4- 7-66				8.68	7.07	9.83	0.13		2.66	3.25	19.51	0.05					
				34	27	38	1		10	13	77					1423	
4N/ 1W- 9R 1 S	--	8.2	429	44	11	33	1	0	193	54	13	0.3	0.7	0.03	--	292	155
10- 1-65				2.20	0.90	1.43	0.03		3.16	1.12	0.37						
				48	20	31	1		68	24	8					252	
	--	7.8	929	95	15	81	2	0	216	169	83	6.3	1.7	0.24	--	634	299
4- 6-66				4.74	1.23	3.52	0.05		3.54	3.52	2.34	0.10					
				50	13	37	1		37	37	25	1				559	
4N/ 1W-11N 2 S	--	8.1	372	25	23	23	3	0	211	32	6	4.2	0.3	0.01	--	226	157
10- 1-65				1.25	1.89	1.00	0.08		3.46	0.67	0.17	0.07					
				30	45	24	2		79	15	4	2				220	
4N/ 1W-11Q 1 S	--	7.6	764	69	40	46	1	0	384	80	19	13.0	0.5	0.05	--	490	337
10- 1-65				3.44	3.29	2.00	0.03		6.29	1.67	0.54	0.21					
				39	38	23			72	19	6	2				457	
	--	7.5	869	79	43	50	1	0	395	97	28	17	0.7	0.07	--	562	374
4- 6-66				3.94	3.54	2.17	0.03		6.47	2.02	0.79	0.27					
				41	37	22			68	21	8	3				510	
4N/ 1W-11X 1 S	--	7.9	428	34	27	18	3	5	228	28	6	0	0.3	0.04	--	250	196
5-13-66				1.70	2.22	0.78	0.08	0.17	3.74	0.58	0.17						
				36	46	16	2	4	80	12	4					233	
4N/ 1W-11X 2 S	--	8.6	387	26	15	20	3	14	132	32	5	0.6	0.3	0.02	--	215	127
5-13-66				1.30	1.23	0.87	0.08	0.47	2.16	0.67	0.14	0.01					
				37	35	25	2	14	63	19	4					181	
4N/ 1W-14Q 4 S	--	7.9	419	44	23	14	2	0	253	25	5	2.9	0.2	0.01	--	256	205
10- 1-65				2.20	1.89	0.61	0.05		4.15	0.52	0.14	0.05					
				46	40	13	1		85	11	3	1				241	
	--	7.6	430	47	22	15	2	0	243	27	11	3.7	0.2	0.04	--	234	208
4- 6-66				2.35	1.81	0.65	0.05		3.98	0.56	0.31	0.06					
				48	37	13	1		81	11	6	1				247	
	--	7.9	419	44	23	14	2	0	253	25	5	2.9	0.2	0.01	--	256	205
10- 1-65				2.20	1.89	0.61	0.05		4.15	0.52	0.14	0.05					
				46	40	13	1		85	11	3	1				241	
	--	7.6	430	47	22	15	2	0	243	27	11	3.7	0.2	0.04	--	234	208
4- 6-66				2.35	1.81	0.65	0.05		3.98	0.56	0.31	0.06					
				48	37	13	1		81	11	6	1				247	
4N/ 1W-18E 1 S	--	7.7	1402	78	43	180	6	0	253	486	50	3.3	1.8	2.65	--	1069	372
10- 1-65				3.89	3.54	7.83	0.15		4.15	10.12	1.41	0.05					
				25	23	51	1		26	64	9					975	
	--	8.0	1273	52	22	198	5	0	214	415	36	1.3	1.5	3.70	--	897	220
4- 6-66				2.59	1.81	8.61	0.13		3.51	8.64	1.02	0.02					
				20	14	66	1		27	66	8					840	
6N/ 1W-36L 1 S	--	7.5	1227	103	30	96	3	0	116	130	245	19	0.7	0.23	--	1013	381
11- 5-65				5.14	2.47	4.17	0.08		1.90	2.71	6.91	0.31					
				43	21	35	1		16	23	58	3				684	
6N/ 1W-36L 2 S	--	7.7	2031	143	29	213	4	0	95	111	520	18	1.3	0.44	--	1619	476
11- 5-65				7.14	2.38	9.26	0.10		1.56	2.31	14.66	0.29					
				38	13	49	1		8	12	78	2				1086	
								JOHNSON HYDRO UNIT			X0200						
			X0200														
2N/ 2E-19A 1 S	--	6.9	281	28	14	11	2	0	159	8	6	0.0	0.1	0.02	--	174	128
7-26-66				1.40	1.15	0.48	0.05		2.61	0.17	0.17						
				45	37	16	2		88	6	6					147	
3N/ 4E- 6X 1 S	--	8.1	1958	26	21	368	6	0	108	552	204	0.9	4.6	2.20	--	1338	152
12- 9-65				1.30	1.73	16.00	0.15		1.77	11.49	5.75	0.01					
				7	9	83	1		9	60	30					1238	
4N/ 2E-25JS1 S	--	7.0	943	89	30	73	9	0	205	278	37	0.0	0.7	0.24	--	660	346
10- 6-65				4.44	2.47	3.17	0.23		3.36	5.79	1.04						
				43	24	31	2		33	57	10					618	
	--	8.1	735	62	27	55	6	10	113	234	34	0.3	0.6	0.16	--	502	266
4-11-66				3.09	2.22	2.39	0.15	0.33	1.85	4.87	0.96						
				39	28	30	2	4	23	61	12					485	
4N/ 3E-23G 1 S	--	7.6	1401	94	74	99	6	0	149	418	128	4.4	0.7	0.14	--	1014	539
10- 6-65				4.69	6.09	4.30	0.15		2.44	8.70	3.61	0.07					
				31	40	28	1		16	59	24					897	
	--	7.4	1252	85	62	84	6	0	140	372	110	3.0	1.3	0.14	--	890	467
5- 2-66				4.24	5.10	3.65	0.15		2.29	7.75	3.10	0.05					
				32	39	28	1		17	59	24					792	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10^6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
JOHNSON HYDRO UNIT X0200																	
4N/ 4E-19C 1 S	--	7.7	2823	190	135	248	8	0	147	723	465	15.0	1.0	0.32	--	2283	1030
10- 6-65				9.48	11.10	10.78	0.20		2.41	15.05	13.11	0.24					
				30	35	34	1		8	49	43	1				1858	
	--	7.7	3654	252	175	352	9	0	145	1020	672	19.6	1.3	0.50	--	3134	1349
5- 2-66				12.57	14.39	15.30	0.23		2.38	21.24	18.95	0.32					
				30	34	36	1		6	50	44	1				2573	
4N/ 4E-19E 3 S	--	7.5	1796	107	86	131	6	0	126	212	390	8.0	1.1	0.19	--	1118	621
10- 6-65				5.34	7.07	5.70	0.15		2.07	4.41	11.00	0.13					
				29	39	31	1		12	25	62	1				1003	
4N/ 4E-19E 3 S	--	8.0	1848	90	98	130	7	0	76	213	439	0	1.1	0.18	--	1232	628
5- 2-66				4.49	8.06	5.65	0.18		1.25	4.43	12.38						
				24	44	31	1		7	25	69					1016	
FENNER HYDRO SUBUNIT X10B0																	
10N/14E-21J 1 S	--	7.6	1562	109	76	74	6	0	278	90	298	0.0	0.3	0.14	--	1050	585
3-14-66				5.44	6.25	3.22	0.15		4.56	1.87	8.40						
				36	42	21	1		31	13	57					790	
SAN GORGONIO HYDRO SUBUNIT X19C0																	
SAN GORGONIO HYDRO SUBAREA X19C2																	
2S/ 1E-17L 1 S	60	7.7	328	37	16	7	2	0	168	22	8	1	0.5	0.01	--	176	159
9-22-66				1.85	1.32	0.30	0.05		2.75	0.46	0.23	0.02					
				53	38	9	1		79	13	7	1				176	
	--	8.1	340	39	14	8	3	0	171	25	7	1.5	0.4	0.04	--	181	155
10- 7-65				1.95	1.15	0.35	0.08		2.80	0.52	0.20	0.02					
				55	33	10	2		79	15	6	1				182	
	--	7.8	339	40	13	8	2	0	170	22	10	1	0.4	0	--	193	154
4- 1-66				2.00	1.07	0.35	0.05		2.79	0.46	0.28	0.02					
				58	31	10	1		79	13	8	1				180	
2S/ 1E-29F 1 S	64	7.7	324	37	14	7	2	0	168	21	8	0.0	0.4	0.01	--	176	150
9-22-66				1.85	1.15	0.30	0.05		2.75	0.44	0.23						
				55	34	9	1		80	13	7					172	
2S/ 1E-33J 1 S	64	7.9	333	38	15	7	3	0	172	20	8	2	0.4	0.01	--	187	157
9-22-66				1.90	1.23	0.30	0.08		2.82	0.42	0.23	0.03					
				54	35	9	2		81	12	7	1				178	
	--	8.1	353	42	14	9	3	0	179	24	7	2	0.3	0.04	--	191	163
10- 8-65				2.10	1.15	0.39	0.08		2.93	0.50	0.20	0.03					
				56	31	10	2		80	14	5	1				189	
2S/ 1E-33J 2 S	--	7.7	329	38	13	9	2	0	163	23	10	2	0.4	0	--	180	149
4- 1-66				1.90	1.07	0.39	0.05		2.67	0.48	0.28	0.03					
				56	31	11	1		77	14	8	1				178	
3S/ 1E- 7E 1 S	68	7.7	394	40	13	23	1	0	210	8	17	4	0.3	0	--	229	154
9-22-66				2.00	1.07	1.00	0.03		3.44	0.17	0.48	0.06					
				49	26	24	1		83	4	12	1				210	
	--	8.1	375	39	10	24	1	0	196	12	13	5	0.3	0.03	--	212	139
10- 8-65				1.95	0.82	1.04	0.03		3.21	0.25	0.37	0.08					
				51	21	27	1		82	6	9	2				201	
	--	8.0	379	40	10	26	2	0	196	11	15	3	0.3	0	--	204	141
4- 1-66				2.00	0.82	1.13	0.05		3.21	0.23	0.42	0.05					
				50	21	28	1		82	6	11	1				204	
3S/ 2E-22B 1 S	68	7.7	422	30	11	43	5	0	210	12	29	2	0.6	0.02	--	218	120
9-19-66				1.50	0.90	1.87	0.13		3.44	0.25	0.82	0.03					
				34	20	43	3		76	6	18	1				236	
	72	8.0	536	39	11	54	7	0	193	25	41	2	0.5	0.02	--	343	143
6- 6-66				1.95	0.90	2.35	0.18		3.16	0.52	1.16	0.03					
				36	17	44	3		65	11	24	1				274	
3S/ 2E-23C 1 S	68	7.5	275	22	6	27	2	0	127	7	17	1.0	0.4	0	--	188	80
6- 6-66				1.10	0.49	1.17	0.05		2.08	0.15	0.48	0.02					
				39	17	42	2		76	5	18	1				145	
	78	8.0	268	20	7	28	2	0	130	7	18	3	0.5	0	--	164	79
9-19-66				1.00	0.58	1.22	0.05		2.13	0.15	0.51	0.05					
				35	20	43	2		75	5	18	2				149	
3S/ 3E- 8M 1 S	78	7.6	353	34	12	26	2	0	174	26	18	6.5	0.6	0	--	203	135
9-19-66				1.70	0.99	1.13	0.05		2.85	0.54	0.51	0.10					
				44	26	29	1		71	14	13	3				211	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
WHITEWATER HYDRO UNIT X1900																	
COACHELLA HYDRO SUBUNIT X19D0																	
GARNET HILL HYDRO SUBAREA X19D1																	
2S/ 3E- 2JS1 S	--	8.2	874	80	35	50	8	0	287	199	18	1.5	1.1	0.03	--	547	344
2-26-66				3.99	2.88	2.17	0.20		4.70	4.14	0.51	0.02					
				43	31	23	2		50	44	5					534	
3S/ 4E-22A 2 S	70	8.0	328	7	1	76	1	0	98	62	22	3	0.5	0.01	--	216	22
4- 7-66				0.35	0.08	3.30	0.03		1.61	1.29	0.62	0.05					
				9	2	88	1		45	36	17	1				221	
3S/ 5E-20D 1 S	78	7.8	1070	69	18	125	9	0	93	363	48	0.5	1.1	0.06	--	696	246
10- 8-65				3.44	1.48	5.44	0.23		1.52	7.56	1.35	0.01					
				32	14	51	2		15	72	13					679	
MISSION CREEK HYDRO SUBAREA X19D2																	
2S/ 4E-18D 3 S	--	8.2	1064	100	41	72	11	0	277	299	23	0.9	1.7	0.03	--	726	418
2- 3-66				4.99	3.37	3.13	0.28		4.54	6.23	0.65	0.01					
				42	29	27	2		40	55	6					685	
2S/ 5E-30L 1 S	114	8.3	1530	36	1	274	5	0	41	468	117	5.5	5.2	0.93	--	952	94
10- 8-65				1.80	0.08	11.91	0.13		0.67	9.74	3.30	0.09					
				13	1	86	1		5	71	24	1				933	
2S/ 5E-30L 2 S	82	8.0	1197	57	12	174	9	0	105	387	57	2.5	1.1	0.13	--	759	192
10- 8-65				2.84	0.99	7.57	0.23		1.72	8.06	1.61	0.04					
				24	9	65	2		15	71	14					751	
3S/ 4E-22A 2 S	80	7.7	373	5	3	70	3	0	101	64	21	5	0.5	0	--	232	25
9-19-66				0.25	0.25	3.04	0.08		1.66	1.33	0.59	0.08					
				7	7	84	2		45	36	16	2				221	
	78	8.5	351	7	1	63	3	5	96	55	14	1	0.7	0	--	172	22
10- 8-65				0.35	0.08	2.74	0.08	0.17	1.57	1.15	0.39	0.02					
				11	2	84	2	5	48	35	12	1				197	
3S/ 5E-17K 1 S	80	8.0	1344	61	13	224	9	0	103	428	81	2	1.5	0.54	--	866	206
4- 7-66				3.04	1.07	9.74	0.23		1.69	8.91	2.28	0.03					
				22	8	69	2		13	69	18					871	
3S/ 5E-18M 1 S	80	7.8	670	42	14	77	7	0	143	175	22	1	1.4	0.08	--	426	163
10- 8-65				2.10	1.15	3.35	0.18		2.34	3.64	0.62	0.02					
				31	17	49	3		35	55	9					410	
	79	8.0	671	43	13	74	3	0	138	177	21	0.0	1.2	0.04	--	423	161
4- 7-66				2.15	1.07	3.22	0.08		2.26	3.69	0.59						
				33	16	49	1		35	56	9					400	
3S/ 5E-18R 1 S	80	7.6	1150	77	19	140	11	0	98	399	56	1	1.1	0.12	--	761	270
10- 8-65				3.84	1.56	6.09	0.28		1.61	8.31	1.58	0.02					
				33	13	52	2		14	72	14					752	
	80	8.0	1265	85	19	153	10	0	110	438	59	3	0.9	0.10	--	846	290
4- 7-66				4.24	1.56	6.65	0.26		1.80	9.12	1.66	0.05					
				33	12	52	2		14	72	13					822	
3S/ 5E-20D 1 S	82	8.0	1077	70	19	120	9	0	91	370	50	2	1.1	0.06	--	719	253
4- 7-66				3.49	1.56	5.22	0.23		1.49	7.70	1.41	0.03					
				33	15	50	2		14	72	13					686	
3S/ 5E-23C 1 S	68	7.5	275	22	6	27	2	0	127	7	17	1.0	0.4	0	--	188	80
6- 6-66				1.10	0.49	1.17	0.05		2.08	0.15	0.48	0.02					
				39	17	42	2		76	5	18	1				145	
MIRACLE HILL HYDRO SUBAREA X19D3																	
2S/ 5E-19L 1 S	--	7.9	2128	257	79	120	15	0	65	1012	67	0.0	0.8	0.07	--	1722	967
2- 3-66				12.82	6.50	5.22	0.38		1.07	21.07	1.89						
				51	26	21	2		4	88	8					1583	
2S/ 5E-30L 1 S	80	7.9	1551	37	3	298	7	0	39	497	129	9	5.2	1.00	--	1001	105
9-19-66				1.85	0.25	12.96	0.18		0.64	10.35	3.64	0.15					
				12	2	85	1		4	70	25	1				1005	
2S/ 5E-30L 2 S	89	7.9	1204	61	14	179	9	0	93	392	72	6.5	1.3	0.11	--	795	210
9-27-66				3.04	1.15	7.78	0.23		1.52	8.16	2.03	0.10					
				25	9	64	2		13	69	17	1				781	
2S/ 5E-30L 1 S	98	7.8	1667	42	0	348	5	0	38	502	138	6	5.3	1.06	--	1037	105
4- 7-66				2.10		15.13	0.13		0.62	10.45	3.89	0.10					
				12		87	1		4	69	26	1				1066	
2S/ 5E-30L 2 S	79	7.9	1176	39	6	229	8	0	80	390	58	1.0	0.9	0.13	--	732	122
4- 7-66				1.95	0.49	9.96	0.20		1.31	8.12	1.64	0.02					
				15	4	79	2		12	73	15					771	
3S/ 4E-10J 1 S	78	7.8	354	21	2	51	5	0	151	12	24	2	0.7	0	--	204	61
5- 4-66				1.05	0.16	2.22	0.13		2.47	0.25	0.68	0.03					
				29	4	62	4		72	7	20	1				192	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
WHITEWATER HYDRO UNIT X1900																	
SKY VALLEY HYDRO SUBAREA X19D4																	
2S/ 4E-35A 1 S	--	8.3	715	71	14	55	8	11	182	157	21	7	0.6	0.04	--	440	235
3- 1-66				3.54	1.15	2.39	0.20	0.37	2.98	3.27	0.59	0.11					
				49	16	33	3	5	41	45	8	2				434	
3S/ 4E- 1H 1 S	--	8.1	637	47	7	69	8	--	95	194	19	5	0.6	0.02	--	450	147
3- 1-66				2.35	0.58	3.00	0.20		1.56	4.04	0.54	0.08					
				38	9	49	3		25	65	9	1				396	
3S/ 4E- 7L 1 S	80	8.3	844	51	7	112	8	7	129	231	32	9	0.9	0.10	--	525	156
3- 1-66				2.54	0.58	4.87	0.20	0.23	2.11	4.81	0.90	0.15					
				31	7	59	2	3	26	59	11	2				521	
3S/ 5E- 4N 1 S	102	8.0	1217	33	0	214	5	--	48	394	63	4	3.5	0.53	--	739	83
3- 1-66				1.65		9.30	0.13		0.79	8.20	1.78	0.06					
				15		84	1		7	76	16	1				741	
3S/ 5E-17K 1 S	83	8.0	1331	62	12	206	9	0	104	423	81	6.0	2.2	0.47	--	850	204
3- 1-66				3.09	0.99	8.96	0.23		1.70	8.81	2.28	0.10					
				23	7	68	2		13	68	18	1				853	
INDIO HYDRO SUBAREA X19D7																	
3S/ 4E-36M 1 S	72	8.2	393	48	12	16	4	0	195	23	13	2	0.6	0.01	--	229	170
9-23-66				2.40	0.99	0.70	0.10		3.20	0.48	0.37	0.03					
				57	24	17	2		78	12	9	1				214	
	--	8.1	397	48	11	17	3	0	199	24	14	2	0.9	0.07	--	220	165
10- 4-65				2.40	0.90	0.74	0.08		3.26	0.50	0.39	0.03					
				58	22	18	2		78	12	9	1				218	
	65	8.3	392	49	11	16	3	7	179	24	13	2	0.8	0	--	216	168
4- 5-66				2.45	0.90	0.70	0.08	0.23	2.93	0.50	0.37	0.03					
				59	22	17	2	6	72	12	9	1				214	
4S/ 4E- 1N 1 S	--	7.9	322	35	9	17	2	0	162	14	13	3	0.8	0.06	--	167	125
10- 5-65				1.75	0.74	0.74	0.05		2.66	0.29	0.37	0.05					
				53	23	23	2		79	9	11	1				173	
	68	8.1	320	37	8	17	2	0	160	11	13	2	0.7	0.01	--	179	126
4- 5-66				1.85	0.66	0.74	0.05		2.62	0.23	0.37	0.03					
				56	20	22	2		81	7	11	1				169	
4S/ 4E-11K 1 S	74	8.2	479	56	11	27	5	0	187	43	27	13	0.5	0.01	--	277	185
9-22-66				2.79	0.90	1.17	0.13		3.06	0.90	0.76	0.21					
				56	18	23	3		62	18	15	4				274	
4S/ 4E-11Q 1 S	80	8.1	367	43	6	21	5	0	170	25	14	3	0.3	0.01	--	208	132
4- 5-66				2.15	0.49	0.91	0.13		2.79	0.52	0.39	0.05					
				58	13	25	4		74	14	10	1				201	
	76	8.3	461	53	9	29	6	7	184	40	19	6	0.3	0.01	--	260	169
9-23-66				2.64	0.74	1.26	0.15	0.23	3.02	0.83	0.54	0.10					
				55	15	26	3	5	64	18	11	2				260	
4S/ 4E-11R 1 S	74	8.2	288	32	7	16	4	0	140	18	10	1.5	0.5	0	--	146	109
9-21-66				1.60	0.58	0.70	0.10		2.29	0.37	0.28	0.02					
				54	19	23	3		77	13	9	1				158	
4S/ 4E-11K 1 S	--	7.5	493	59	9	26	3	0	170	63	24	13	0.4	0.07	--	301	184
10- 5-65				2.94	0.74	1.13	0.08		2.79	1.31	0.68	0.21					
				60	15	23	2		56	26	14	4				281	
4S/ 4E-11Q 1 S	--	8.2	465	53	9	29	6	0	208	41	18	3	0.4	0.06	--	261	169
10- 4-65				2.64	0.74	1.26	0.15		3.41	0.85	0.51	0.05					
				55	15	26	3		71	18	11	1				262	
	80	8.1	367	43	6	21	5	0	170	25	14	3	0.3	0.01	--	208	132
4- 5-66				2.15	0.49	0.91	0.13		2.79	0.52	0.39	0.05					
				58	13	25	4		74	14	10	1				201	
4S/ 4E-11R 1 S	--	7.8	291	33	6	16	3	0	142	18	9	0.7	0.5	0.05	--	188	107
10- 5-65				1.65	0.49	0.70	0.08		2.33	0.37	0.25	0.01					
				57	17	24	3		79	13	8					156	
4S/ 4E-14R 2 S	82	8.1	331	31	4	29	5	0	126	29	18	7	0.3	0.01	--	198	94
9-23-66				1.55	0.33	1.26	0.13		2.07	0.60	0.51	0.11					
				47	10	39	4		63	18	16	3				185	
4S/ 4E-23C 1 S	68	7.8	272	26	5	20	3	0	96	8	20	22	0.1	0	--	154	86
9-22-66				1.30	0.41	0.87	0.08		1.57	0.17	0.56	0.35					
				49	15	33	3		59	6	21	13				151	
4S/ 4E-23E 1 S	66	7.9	212	22	4	14	3	0	95	10	10	5.5	0.1	0	--	120	72
9-22-66				1.10	0.33	0.61	0.08		1.56	0.21	0.28	0.09					
				52	16	29	4		73	10	13	4				115	
4S/ 4E-23C 1 S	--	7.6	447	53	8	24	3	0	159	58	21	9	0.2	0.08	--	273	165
10- 5-65				2.64	0.66	1.04	0.08		2.61	1.21	0.59	0.15					
				60	15	24	2		57	27	13	3				254	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN	MILLIGRAMS PER LITER								MILLIGRAMS PER LITER				
					MILLIEQUIVALENTS PER LITER												
					PERCENT REACTANCE VALUE												
WHITEWATER HYDRO UNIT X1900																	
INDIO HYDRO SUBAREA X19D7																	
4S/ 4E-23C 1 S	76	8.2	352	36	4	29	3	0	144	18	20	13	0.1	0	--	204	107
4- 5-66				1.80	0.33	1.26	0.08		2.36	0.37	0.56	0.21					
				52	10	36	2		67	11	16	6				194	
4S/ 4E-23F 1 S	--	7.8	224	23	4	14	3	0	99	9	12	5	0.1	0.04	--	137	74
10- 4-65				1.15	0.33	0.61	0.08		1.62	0.19	0.34	0.08					
				53	15	28	4		73	9	15	4				119	
	74	7.8	228	26	3	14	3	0	98	9	11	6	0	0	--	137	78
4- 5-66				1.30	0.25	0.61	0.08		1.61	0.19	0.31	0.10					
				58	11	27	4		73	9	14	5				120	
4S/ 4E-26A 1 S	--	7.6	438	49	9	26	3	0	146	70	21	0	0.4	0.08	--	263	160
10- 4-65				2.45	0.74	1.13	0.08		2.39	1.46	0.59						
				56	17	26	2		54	33	13					250	
	78	8.0	438	51	8	25	3	0	144	69	21	1	0.3	0.02	--	270	160
4- 5-66				2.54	0.66	1.09	0.08		2.36	1.44	0.59	0.02					
				58	15	25	2		54	33	13					249	
SKY VALLEY HYDRO SUBAREA X19D4																	
4S/ 5E-19D 1 S	74	8.2	371	48	7	17	4	0	156	30	19	5.5	0.6	0	--	219	149
9-21-66				2.40	0.58	0.74	0.10		2.56	0.62	0.54	0.09					
				63	15	19	3		67	16	14	2				208	
	--	7.6	465	55	9	24	3	0	157	63	23	6	0.4	0.08	--	274	174
10- 5-65				2.74	0.74	1.04	0.08		2.57	1.31	0.65	0.10					
				60	16	23	2		56	28	14	2				261	
4S/ 5E-33B 1 S	68	8.2	441	53	9	24	2	0	155	55	20	16	0.3	0.01	--	266	169
9-21-66				2.64	0.74	1.04	0.05		2.54	1.15	0.56	0.26					
				59	17	23	1		56	25	12	6				256	
4S/ 5E-33B 3 S	68	8.2	452	54	10	24	3	0	155	64	23	10	0.3	0.01	--	288	176
9-21-66				2.69	0.82	1.04	0.08		2.54	1.33	0.65	0.16					
				58	18	22	2		54	28	14	3				265	
4S/ 5E-33G 1 S	76	8.2	488	59	11	26	3	0	168	62	23	17	0.4	0.02	--	292	192
9-21-66				2.94	0.90	1.13	0.08		2.75	1.29	0.65	0.27					
				58	18	22	2		55	26	13	5				284	
	64	8.1	496	60	10	26	3	0	167	62	23	16	0.4	0.02	--	301	191
3-31-66				2.99	0.82	1.13	0.08		2.74	1.29	0.65	0.26					
				60	16	23	2		55	26	13	5				283	
4S/ 5E-33R 1 S	64	8.1	489	54	9	24	3	0	153	59	23	8	0.3	0.02	--	268	172
4- 6-66				2.69	0.74	1.04	0.08		2.51	1.23	0.65	0.13					
				59	16	23	2		56	27	14	3				256	
5S/ 5E- 2F 2 S	64	8.0	407	44	5	30	4	0	134	49	25	3	0.3	0	--	252	131
3-31-66				2.20	0.41	1.30	0.10		2.20	1.02	0.71	0.05					
				55	10	32	2		55	26	18	1				226	
	68	8.3	403	43	6	29	3	0	137	52	24	5	0.3	0.01	--	244	132
9-21-66				2.15	0.49	1.26	0.08		2.25	1.08	0.68	0.08					
				54	12	32	2		55	26	17	2				230	
	--	8.3	405	45	5	29	3	0	133	51	24	4	0.2	0.06	--	237	133
10- 5-65				2.25	0.41	1.26	0.08		2.18	1.06	0.68	0.06					
				56	10	32	2		55	27	17	2				227	
	64	8.0	407	44	5	30	4	0	134	49	25	3	0.3	0	--	252	131
3-31-66				2.20	0.41	1.30	0.10		2.20	1.02	0.71	0.05					
				55	10	32	2		55	26	18	1				226	
5S/ 5E-12H 2 S	--	7.9	303	34	5	19	2	0	129	29	13	1	0.3	0.07	--	181	106
10- 5-65				1.70	0.41	0.83	0.05		2.11	0.60	0.37	0.02					
				57	14	28	2		68	19	12	1				167	
SANTA ANA RIVER HYDRO UNIT Y0100																	
OWER SANTA ANA RIV HYDRO SUBUNITY01A0																	
EAST COASTAL PLAIN HYDRO SUBAREA Y01A1																	
1S/ 7W- 8N 1 S	--	7.7	407	56	10	13	2	0	169	26	8	39	0.4	0.05	--	280	181
7-15-66				2.79	0.82	0.57	0.05		2.77	0.54	0.23	0.63					
				66	19	13	1		66	13	6	15				237	
3S/ 8W-25J 1 S	--	7.7	1670	173	44	131	5	0	388	368	153	0	0.5	0.21	23	1163	613
10- 5-65				8.63	3.62	5.70	0.13		6.36	7.66	4.31						
				48	20	32	1		35	42	24					1088	
3S/ 8W-33K 2 S	--	7.3	1590	--	--	--	--	0	341	416	123	--	--	0.14	--		
10-27-65									5.59	8.66	3.47						
3S/ 9W-35O 1 S	--	7.6	1170	--	--	--	--	0	185	289	105	4	--	--	--		
3-31-66									3.03	6.02	2.96	0.06					

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
SANTA ANA RIVER HYDRO UNIT Y0100																	
LOWER SANTA ANA RIV HYDRO SUBUNITY01A0 EAST COASTAL PLAIN HYDRO SUBAREA Y01A1																	
4S/ 9W- 1E 2 S	--	7.6	1680	--	--	--	--	0	310	385	169	--	--	--	--		
10- 5-65									5.08	8.02	4.77						
4S/ 9W- 7Q 5 S	--	7.7	1090	--	--	--	--	0	157	280	99	--	--	--	--		
10- 8-65									2.57	5.83	2.79						
4S/ 9W-27F 1 S	--	7.4	977	100	39	44	1	--	214	194	70	33	0.4	0.06	--	615	41(
2- 8-66				4.99	3.21	1.91	0.03		3.51	4.04	1.97	0.53					
				49	32	19			35	40	20	5				587	
	--	7.5	964	--	--	--	--	0	217	195	63	--	--	--	--		
10-14-65									3.56	4.06	1.78						
	--	7.4	959	--	--	--	--	0	216	193	65	39	--	--	--		
4-18-66									3.54	4.02	1.83	0.63					
4S/ 9W-28X 1 S	--	7.6	573	57	14	40	2	0	188	75	29	12	0.2	0.08	40	376	20(
4-11-66				2.84	1.15	1.74	0.05		3.08	1.56	0.82	0.19					
				49	20	30	1		55	28	15	3				362	
4S/ 9W-31B 1 S	68	7.8	547	60	12	34	2	0	203	48	34	10.0	0.4	0.05	22	351	19
10- 5-65				2.99	0.99	1.48	0.05		3.33	1.00	0.96	0.16					
				54	18	27	1		61	18	18	3				322	
	--	7.8	549	--	--	--	--	0	199	48	34	11	--	--	--		
4-11-66									3.26	1.00	0.96	0.18					
4S/10W- 3P 1 S	--	7.7	1040	113	27	64	5	--	235	192	92	13	0.5	0.11	--	640	39
2- 8-66				5.64	2.22	2.78	0.13		3.85	4.00	2.59	0.21					
				52	21	26	1		36	38	24	2				622	
4S/10W- 4R 5 S	--	7.7	1060	130	16	64	5	--	251	186	94	19	0.6	0.17	--	662	39
4- 1-66				6.49	1.32	2.78	0.13		4.11	3.87	2.65	0.31					
				61	12	26	1		38	35	24	3				638	
4S/10W-13H 2 S	--	8.0	1040	95	22	97	5	--	132	282	95	0	0.7	0.13	--	720	32
3-30-66				4.74	1.81	4.22	0.13		2.16	5.87	2.68						
				43	17	39	1		20	55	25					662	
4S/10W-14D 2 S	--	7.8	987	--	--	--	--	0	193	230	80	9.5	--	--	--		
10-27-65									3.16	4.79	2.26	0.15					
4S/10W-24D 2 S	--	7.7	1050	112	20	74	5	0	181	255	85	5	0.5	0.08	33	683	36
3-28-66				5.59	1.64	3.22	0.13		2.97	5.31	2.40	0.08					
				53	16	30	1		28	49	22	1				678	
4S/10W-24J 1 S	--	7.8	626	72	15	35	3	0	202	88	38	7	0.4	0.06	33	400	24
4-11-66				3.59	1.23	1.52	0.08		3.31	1.83	1.07	0.11					
				56	19	24	1		52	29	17	2				391	
4S/10W-25N 1 S	--	7.7	1050	115	21	74	5	0	185	248	89	8	0.5	0.07	33	688	37
3-28-66				5.74	1.73	3.22	0.13		3.03	5.16	2.51	0.13					
				53	16	30	1		28	48	23	1				684	
4S/10W-29M 1 S	65	8.0	979	118	22	53	5	0	259	128	75	70.0	0.6	0.10	--	640	38
11- 8-65				5.89	1.81	2.30	0.13		4.25	2.66	2.12	1.13					
				58	18	23	1		42	26	21	11				599	
4S/11W-12R 6 S	--	7.8	900	110	17	55	4	--	248	156	54	22	0.8	0.13	--	573	34
4- 1-66				5.49	1.40	2.39	0.10		4.06	3.25	1.52	0.35					
				59	15	25	1		44	35	17	4				541	
4S/11W-24P 1 S	66	8.0	843	114	20	42	4	0	271	169	40	0.0	0.7	0.06	--	580	36
11- 8-65				5.69	1.64	1.83	0.10		4.44	3.52	1.13						
				61	18	20	1		49	39	12					523	
4S/11W-31F 1 S	--	7.5	940	118	23	48	4	--	281	142	70	12	0.6	0.16	--	592	38
3-30-66				5.89	1.89	2.09	0.10		4.61	2.96	1.97	0.19					
				59	19	21	1		47	30	20	2				556	
5S/ 7W-19R 1 S	--	7.6	1010	108	29	73	3	0	355	219	27	0	0.4	0.18	20	673	38
10-14-65				5.39	2.38	3.17	0.08		5.82	4.56	0.76						
				49	22	29	1		52	41	7					654	
5S/ 8W- 1N 1 S	--	7.6	1240	--	--	--	--	0	273	--	45	--	--	--	--		
10-14-65									4.47		1.27						

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
SANTA ANA RIVER HYDRO UNIT Y0100																	
LOWER SANTA ANA RIV HYDRO SUBUNITY01A0																	
EAST COASTAL PLAIN HYDRO SUBAREA Y01A1																	
5S/ 8W-13C 1 S	--	7.4	847	--	--	--	--	0	295	--	27	--	--	--	--		
10-14-65									4.84		0.76						
5S/ 8W-31K 1 S	--	7.7	1720	--	--	--	--	0	302	--	174	--	--	--	--		
10- 5-65									4.95		4.91						
5S/ 8W-32L 1 S	84	7.3	1780	--	--	--	--	0	307	--	172	12	--	--	--		
3-29-66									5.03		4.85	0.19					
5S/ 9W-14Q 2 S	--	7.5	1780	--	--	--	--	0	304	399	184	--	--	--	--		
10- 5-65									4.98	8.31	5.19						
5S/ 9W-15J 1 S	--	7.5	924	93	22	73	3	0	232	147	87	20.0	0.2	0.07	27	642	323
10-27-65				4.64	1.81	3.17	0.08		3.80	3.06	2.45	0.32					
				48	19	33	1		39	32	25	3				586	
	78	7.6	884	78	20	79	2	0	234	128	77	15	0.3	0.14	44	579	277
3-29-66				3.89	1.64	3.43	0.05		3.84	2.66	2.17	0.24					
				43	18	38	1		43	30	24	3				558	
5S/ 9W-21B 1 S	76	7.6	726	64	15	70	2	0	227	118	36	14	0.2	0.09	33	460	221
3-29-66				3.19	1.23	3.04	0.05		3.72	2.46	1.02	0.23					
				42	16	40	1		50	33	14	3				464	
5S/ 9W-24H 1 S	--	7.7	1880	96	39	259	2	0	316	377	190	58.0	0.6	0.29	43	1258	400
10- 5-65				4.79	3.21	11.26	0.05		5.18	7.85	5.36	0.94					
				25	17	58			27	41	28	5				1220	
	--	7.6	1820	--	--	--	--	0	323	--	199	49	--	--	--		
3-23-66									5.29		5.61	0.79					
5S/ 9W-25E 1 S	--	7.9	1160	61	34	144	3	--	372	196	61	2.5	0.7	0.30	--	681	292
3-30-66				3.04	2.80	6.26	0.08		6.10	4.08	1.72	0.04					
				25	23	51	1		51	34	14					685	
	78	7.6	1130	56	33	146	3	0	364	189	61	6	0.6	0.24	58	736	275
3-29-66				2.79	2.71	6.35	0.08		5.97	3.93	1.72	0.10					
				23	23	53	1		51	34	15	1				732	
5S/ 9W-32A 1 S	--	8.2	424	--	--	--	--	8	159	--	15	--	--	--	--		
10-19-65								0.27	2.61		0.42						
	--	8.8	399	--	--	--	--	14	131	--	17	--	--	--	--		
3-23-66								0.47	2.15		0.48						
5S/ 9W-34J 1 S	86	7.6	726	42	10	99	3	0	246	96	46	0	0.4	0.21	93	470	146
3-23-66				2.10	0.82	4.30	0.08		4.03	2.00	1.30						
				29	11	59	1		55	27	18					511	
5S/ 9W-34J 2 S	--	7.8	1216	--	--	--	--	0	359	--	74	--	--	--	--		
10- 5-65									5.88		2.09						
5S/ 9W-34Q 1 S	82	7.6	933	--	--	--	--	0	209	--	150	--	--	--	--		
10- 5-65									3.43		4.23						
	85	7.6	916	--	--	--	--	0	211	--	153	--	--	--	--		
3-23-66									3.46		4.31						
5S/ 9W-35J 1 S	--	7.5	1040	76	26	114	3	--	296	183	74	3.7	0.5	0.15	--	706	297
3-30-66				3.79	2.14	4.96	0.08		4.85	3.81	2.09	0.06					
				35	20	45	1		45	35	19	1				626	
5S/ 9W-36B 1 S	--	7.7	2210	--	--	--	--	0	373	--	270	75	--	--	--		
3-23-66									6.11		7.61	1.21					
5S/10W- 1E 2 S	--	7.7	797	86	18	40	3	--	231	72	62	26	0.4	0.10	--	392	289
2- 7-66				4.29	1.48	1.74	0.08		3.79	1.50	1.75	0.42					
				57	19	23	1		51	20	23	6				421	
5S/10W- 9C 1 S	--	8.0	806	90	19	50	3	--	215	114	64	30.0	0.4	0.06	--	480	303
1-27-66				4.49	1.56	2.17	0.08		3.52	2.37	1.80	0.48					
				54	19	26	1		43	29	22	6				476	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
SANTA ANA RIVER HYDRO UNIT Y0100																	
LOWER SANTA ANA RIV HYDRO SUBUNITY01A0 EAST COASTAL PLAIN HYDRO SUBAREA Y01A1																	
5S/10W-10D 2 S	68	8.0	967	124	23	50	4	0	284	146	84	8.0	0.6	0.10	--	695	404
11- 8-65				6.19	1.89	2.17	0.10		4.65	3.04	2.37	0.13					
				60	18	21	1		46	30	23	1				579	
5S/10W-13B 3 S	69	8.1	444	46	10	34	2	0	200	54	15	2.0	0.4	0.06	--	275	156
11- 8-65				2.30	0.82	1.48	0.05		3.28	1.12	0.42	0.03					
				49	18	32	1		68	23	9	1				262	
5S/10W-22E 3 S	66	8.0	595	71	13	37	2	0	249	59	30	3.0	0.6	0.08	--	370	231
11- 8-65				3.54	1.07	1.61	0.05		4.08	1.23	0.85	0.05					
				56	17	26	1		66	20	14	1				338	
5S/10W-26D 3 S	--	7.6	432	30	9	45	2	--	180	43	14	0.6	0.3	0.03	--	234	112
2- 7-66				1.50	0.74	1.96	0.05		2.95	0.90	0.39	0.01					
				35	17	46	1		69	21	9					232	
5S/10W-26N 1 S	--	7.8	471	40	12	39	2	0	184	55	16	0	0.4	0.03	--	257	150
2- 7-66				2.00	0.99	1.70	0.05		3.02	1.15	0.45						
				42	21	36	1		65	25	10					255	
5S/10W-28H 2 S	68	7.8	924	112	20	63	2	0	370	100	63	1.0	0.9	0.12	--	580	362
11- 8-65				5.59	1.64	2.74	0.05		6.06	2.08	1.78	0.02					
				56	16	27			61	21	18					544	
5S/10W-29P 4 S	68	8.1	782	97	18	47	3	0	305	100	47	7.0	0.5	0.10	--	520	316
11- 8-65				4.84	1.48	2.04	0.08		5.00	2.08	1.33	0.11					
				57	18	24	1		59	24	16	1				470	
5S/10W-32F 4 S	--	7.9	917	104	22	63	3	0	261	175	64	4	0.4	0.04	--	590	350
10- 1-65				5.19	1.81	2.74	0.08		4.28	3.64	1.80	0.06					
				53	18	28	1		44	37	18	1				564	
	--	--	786	71	20	65	3	0	190	159	63	0.5	0.5	0.12	--	490	259
3-28-66				3.54	1.64	2.83	0.08		3.11	3.31	1.78	0.01					
				44	20	35	1		38	40	22					476	
5S/10W-32J 1 S	69	7.9	399	39	8	36	2	0	190	39	12	0.0	0.3	0.05	--	240	131
11- 9-65				1.95	0.66	1.57	0.05		3.11	0.81	0.34						
				46	16	37	1		73	19	8					230	
	--	7.9	404	35	10	36	2	0	190	33	14	0.0	0.4	0.06	--	240	129
3-28-66				1.75	0.82	1.57	0.05		3.11	0.69	0.39						
				42	20	37	1		74	16	9					224	
5S/10W-33D 1 S	65	7.9	451	52	6	35	2	0	195	41	20	0.0	0.4	0.06	--	260	154
11- 9-65				2.59	0.49	1.52	0.05		3.20	0.85	0.56						
				56	11	33	1		69	18	12					252	
5S/11W- 2N 1 S	67	7.4	464	52	10	30	3	0	207	36	17	3.0	0.6	0.06	--	265	171
11- 9-65				2.59	0.82	1.30	0.08		3.39	0.75	0.48	0.05					
				54	17	27	2		73	16	10	1				253	
5S/11W- 4A 2 S	66	7.9	398	42	5	36	2	0	190	31	13	1.0	0.4	0.06	--	230	126
11- 9-65				2.10	0.41	1.57	0.05		3.11	0.65	0.37	0.02					
				51	10	38	1		75	16	9					224	
5S/11W- 7C 1 S	--	7.7	340	11	1	66	1	--	160	24	12	0	0.6	0.13	--	188	32
3-30-66				0.55	0.08	2.87	0.03		2.62	0.50	0.34						
				16	2	81	1		76	14	10					194	
	78	8.5	338	8	2	66	1	5	148	22	13	3.0	0.6	0.08	--	195	28
11- 9-65				0.40	0.16	2.87	0.03	0.17	2.43	0.46	0.37	0.05					
				12	5	83	1	5	70	13	11	1				193	
5S/11W- 7C 2 S	80	8.4	303	6	0	70	1	5	147	7	21	3.0	0.6	0.14	--	200	15
11- 9-65				0.30		3.04	0.03	0.17	2.41	0.15	0.59	0.05					
				9		90	1	5	72	4	18	1				186	
5S/11W- 7L 1 S	68	8.0	424	44	5	39	2	0	195	38	12	0.0	0.4	0.06	--	230	131
11- 9-65				2.20	0.41	1.70	0.05		3.20	0.79	0.34						
				50	9	39	1		74	18	8					236	
5S/11W- 8C 1 S	68	7.9	1318	90	33	123	6	0	134	348	119	1.0	0.5	0.16	--	790	360
11- 9-65				4.49	2.71	5.35	0.15		2.20	7.25	3.36	0.02					
				35	21	42	1		17	57	26					786	
5S/11W-14A 4 S	63	7.9	498	63	11	33	3	0	254	38	18	0.0	0.6	0.06	--	310	202
11-10-65				3.14	0.90	1.43	0.08		4.16	0.79	0.51						
				57	16	26	1		76	14	9					291	
5S/11W-14A 9 S	61	7.8	577	68	13	36	3	0	259	57	23	0.0	0.5	0.02	--	303	223
11-10-65				3.39	1.07	1.57	0.08		4.25	1.19	0.65						
				55	18	26	1		70	20	11					328	
5S/11W-15G 1 S	69	12.2	5400	473	0	160	34	204	0	4	140	15	0.3	0.08	--	2250	1181
9-21-66				23.60		6.96	0.87	6.80		0.08	3.95	0.24					
				75		22	3	61		1	36	2				1030	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
				MILLIEQUIVALENTS PER LITER													
				PERCENT REACTANCE VALUE													
SANTA ANA RIVER HYDRO UNIT Y0100																	
LOWER SANTA ANA RIV HYDRO SUBUNITY01A0 EAST COASTAL PLAIN HYDRO SUBAREA Y01A1																	
5S/11W-15G 2 S	66	8.3	405	45	8	32	3	5	190	34	13	0.0	0.6	0.04	--	237	146
9-21-66				2.25	0.66	1.39	0.08	0.17	3.11	0.71	0.37						
				51	15	32	2	4	71	16	8					234	
5S/11W-15G 3 S	64	8.3	412	45	8	30	3	5	205	19	13	3.0	0.5	0.04	--	235	146
9-21-66				2.25	0.66	1.30	0.08	0.17	3.36	0.40	0.37	0.05					
				52	15	30	2	4	77	9	9	1				227	
5S/11W-16G 1 S	72	8.1	360	31	5	42	3	0	168	35	14	0.0	0.4	0.06	--	205	98
9-23-66				1.55	0.41	1.83	0.08		2.75	0.73	0.39						
				40	11	47	2		71	19	10					213	
5S/11W-16G 2 S	71	8.2	441	48	12	32	3	0	217	40	15	0.5	0.6	0.06	--	255	170
9-23-66				2.40	0.99	1.39	0.08		3.56	0.83	0.42	0.01					
				49	20	29	2		74	17	9					258	
5S/11W-16G 3 S	75	7.9	421	49	7	31	3	0	198	37	12	0.1	0.6	0.06	--	253	152
9-23-66				2.45	0.58	1.35	0.08		3.25	0.77	0.34						
				55	13	30	2		75	18	8					237	
5S/11W-19A 1 S	--	8.4	386	9	1	82	1	7	206	3	17	2.4	0.6	0.24	--	168	27
1-14-66				0.45	0.08	3.57	0.03	0.23	3.38	0.06	0.48	0.04					
				11	2	86	1	5	81	1	11	1				224	
5S/11W-20G 1 S	--	8.3	464	53	10	31	3	8	202	32	17	0.5	0.6	0.05	--	255	173
1-28-66				2.64	0.82	1.35	0.08	0.27	3.31	0.67	0.48	0.01					
				54	17	28	2	6	70	14	10					254	
5S/11W-20J 4 S	74	8.3	461	52	9	34	3	0	210	41	20	0.0	0.5	0.04	--	260	167
11-10-65				2.59	0.74	1.48	0.08		3.44	0.85	0.56						
				53	15	30	2		71	18	12					263	
5S/11W-20K 9 S	--	7.9	430	43	8	35	2	0	194	32	17	0.0	0.6	0.05	--	241	141
1-28-66				2.15	0.66	1.52	0.05		3.18	0.67	0.48						
				49	15	35	1		73	15	11					233	
5S/11W-20R 2 S	66	8.0	479	52	9	36	3	0	208	39	28	0.0	0.4	0.03	--	250	167
11-10-65				2.59	0.74	1.57	0.08		3.41	0.81	0.79						
				52	15	32	2		68	16	16					270	
5S/11W-21G 1 S	69	8.0	402	36	4	44	2	0	178	33	12	0.7	--	0.10	--	230	107
9-27-66				1.80	0.33	1.91	0.05		2.92	0.69	0.34	0.01					
				44	8	47	1		74	17	9					219	
5S/11W-21G 2 S	69	8.3	405	39	6	38	2	0	182	33	12	1.0	--	0.10	--	225	122
9-27-66				1.95	0.49	1.65	0.05		2.98	0.69	0.34	0.02					
				47	12	40	1		74	17	8					221	
5S/11W-21G 3 S	68	8.3	468	54	7	33	3	0	196	47	16	1.4	--	0.10	--	268	164
9-27-66				2.69	0.58	1.43	0.08		3.21	0.98	0.45	0.02					
				56	12	30	2		69	21	10					258	
5S/11W-21J 1 S	--	8.4	361	8	0	71	1	7	138	31	15	1.0	0.4	0.08	--	154	20
1-14-66				0.40		3.09	0.03	0.23	2.26	0.65	0.42	0.02					
				11		88	1	6	63	18	12	1				202	
5S/11W-21M 3 S	67	8.1	376	26	2	55	2	0	167	36	15	0.0	0.3	0.04	--	202	73
11-10-65				1.30	0.16	2.39	0.05		2.74	0.75	0.42						
				33	4	61	1		70	19	11					218	
5S/11W-21N 2 S	70	8.2	617	70	10	51	3	0	200	130	19	0.0	0.4	0.02	--	374	216
11-10-65				3.49	0.82	2.22	0.08		3.28	2.71	0.54						
				53	12	34	1		50	42	8					382	
5S/11W-21Q 1 S	66	7.8	918	108	20	56	4	0	236	144	89	9.0	0.4	0.10	--	582	352
11-10-65				5.39	1.64	2.43	0.10		3.87	3.00	2.51	0.15					
				56	17	25	1		41	31	26	2				547	
	67	8.2	352	7	0	75	1	0	163	26	11	2.0	0.6	0.14	--	210	18
4-20-66				0.35		3.26	0.03		2.67	0.54	0.31	0.03					
				10		90	1		75	15	9	1				203	
5S/11W-21Q 5 S	72	7.9	919	109	19	56	4	0	233	146	89	9.0	0.4	0.08	--	585	350
11-10-65				5.44	1.56	2.43	0.10		3.82	3.04	2.51	0.15					
				57	16	25	1		40	32	26	2				547	
5S/11W-22G 2 S	67	8.6	425	44	7	36	3	6	188	35	11	0.7	--	0.10	--	238	139
9-27-66				2.20	0.58	1.57	0.08	0.20	3.08	0.73	0.31	0.01					
				50	13	35	2	5	71	17	7					235	
5S/11W-22G 3 S	67	8.2	570	63	9	44	4	0	220	77	20	1.4	--	0.10	--	329	194
9-27-66				3.14	0.74	1.91	0.10		3.61	1.60	0.56	0.02					
				53	13	32	2		62	28	10					327	
5S/11W-22G 4 S	67	8.2	826	105	19	46	4	0	256	182	26	0.8	--	0.10	--	512	340
9-27-66				5.24	1.56	2.00	0.10		4.20	3.79	0.73	0.01					
				59	18	22	1		48	43	8					509	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
SANTA ANA RIVER HYDRO UNIT Y0100																	
LOWER SANTA ANA RIV HYDRO SUBUNITY01A0																	
EAST COASTAL PLAIN HYDRO SUBAREA Y01A1																	
5S/11W-23A 3 S	--	7.6	500	57	9	30	3	--	212	44	15	0	0.6	0.10	--	241	179
3-31-66				2.84	0.74	1.30	0.08		3.47	0.92	0.42						
				57	15	26	2		72	19	9					263	
5S/11W-23M 1 S	--	8.2	807	104	16	43	4	--	229	175	35	1	0.5	0.08	--	532	326
1-27-66				5.19	1.32	1.87	0.10		3.75	3.64	0.99	0.02					
				61	16	22	1		45	43	12					491	
5S/11W-23R 1 S	--	8.0	455	51	9	30	3	--	206	39	19	1	0.6	0.05	--	265	164
1-27-66				2.54	0.74	1.30	0.08		3.38	0.81	0.54	0.02					
				55	16	28	2		71	17	11					254	
5S/11W-26M 7 S	--	7.4	414	7	1	85	1	--	208	7	16	1	0.7	0.14	--	220	22
2- 8-66				0.35	0.08	3.70	0.03		3.41	0.15	0.45	0.02					
				8	2	89	1		85	4	11					221	
5S/11W-26H 8 S	67	8.0	449	53	9	30	3	0	214	42	16	1.0	0.6	0.07	--	255	169
9-22-66				2.64	0.74	1.30	0.08		3.51	0.87	0.45	0.02					
				55	16	27	2		72	18	9					260	
5S/11W-26D 4 S	68	7.8	413	41	6	42	3	0	203	35	13	0.2	0.5	0.10	--	266	127
9-22-66				2.05	0.49	1.83	0.08		3.33	0.73	0.37						
				46	11	41	2		75	16	8					241	
5S/11W-26D 5 S	67	8.2	431	51	9	31	3	0	203	42	15	1.0	0.6	0.10	--	272	164
9-22-66				2.54	0.74	1.35	0.08		3.33	0.87	0.42	0.02					
				54	16	29	2		72	19	9					253	
5S/11W-26D 6 S	67	8.0	998	151	20	54	6	0	222	329	27	25.0	0.6	0.16	--	766	459
9-22-66				7.53	1.64	2.35	0.15		3.64	6.85	0.76	0.40					
				65	14	20	1		31	59	7	3				722	
5S/11W-26E 5 S	--	8.4	367	14	0	66	1	5	148	27	16	1.5	0.5	0.08	--	206	35
1-27-66				0.70		2.87	0.03	0.17	2.43	0.56	0.45	0.02					
				19		80	1	5	67	15	12	1				204	
5S/11W-26H 7 S	68	7.8	403	41	7	36	2	0	198	33	12	0.0	0.5	0.06	--	217	132
9-22-66				2.05	0.58	1.57	0.05		3.25	0.69	0.34						
				48	14	37	1		76	16	8					229	
5S/11W-26M 7 S	77	8.1	394	8	0	84	1	--	203	10	17	1	0.6	0.26	--	240	20
1-27-66				0.40		3.65	0.03		3.33	0.21	0.48	0.02					
				10		89	1		82	5	12					222	
5S/11W-26M 8 S	78	8.3	383	7	0	81	1	6	176	10	17	4.5	0.6	0.17	--	223	18
1-27-66				0.35		3.52	0.03	0.20	2.88	0.21	0.48	0.07					
				9		90	1	5	75	5	13	2				214	
5S/11W-26M 9 S	78	8.5	360	7	0	77	1	7	173	14	13	0.0	0.6	0.18	--	235	18
4-20-66				0.35		3.35	0.03	0.23	2.84	0.29	0.37						
				9		90	1	6	76	8	10					205	
5S/11W-26P 1 S	--	8.4	362	9	0	76	1	6	185	6	17	0.8	0.6	0.16	--	217	23
1-27-66				0.45		3.30	0.03	0.20	3.03	0.12	0.48	0.01					
				12		87	1	5	79	3	13					207	
5S/11W-26P 3 S	--	8.0	372	7	0	79	0	--	176	23	16	4.0	0.6	0.16	--	221	18
1-27-66				0.35		3.43			2.88	0.48	0.45	0.06					
				9		91			74	12	12	2				216	
5S/11W-26Q 1 S	69	8.0	364	31	5	41	3	0	178	32	9	0.1	0.4	0.06	--	223	98
9-22-66				1.55	0.41	1.78	0.08		2.92	0.67	0.25						
				41	11	47	2		76	17	7					209	
5S/11W-26Q 2 S	67	7.8	678	85	12	43	4	0	188	72	89	4.7	0.5	0.06	--	454	262
9-22-66				4.24	0.99	1.87	0.10		3.08	1.50	2.51	0.08					
				59	14	26	1		43	21	35	1				403	
5S/11W-27D 5 S	68	8.0	408	43	8	35	3	0	200	37	12	0.1	0.6	0.06	--	256	141
9-22-66				2.15	0.66	1.52	0.08		3.28	0.77	0.34						
				49	15	34	2		75	18	8					237	
5S/11W-27D 6 S	68	8.2	455	46	9	40	3	0	185	45	27	0.0	0.6	0.06	--	284	152
9-22-66				2.30	0.74	1.74	0.08		3.03	0.94	0.76						
				47	15	36	2		64	20	16					262	
5S/11W-27D 7 S	68	8.2	421	46	8	35	3	0	195	38	17	0.3	0.6	0.06	--	265	148
9-22-66				2.30	0.66	1.52	0.08		3.20	0.79	0.48						
				50	14	33	2		72	18	11					244	
5S/11W-27F 5 S	--	8.4	609	72	12	41	3	8	193	108	20	0.0	0.6	0.06	--	379	229
1-28-66				3.59	0.99	1.78	0.08	0.27	3.16	2.25	0.56						
				56	15	28	1	4	51	36	9					359	
5S/11W-27H 4 S	--	8.3	825	90	13	56	4	7	203	82	97	3.0	0.5	0.23	--	505	278
1-27-66				4.49	1.07	2.43	0.10	0.23	3.33	1.71	2.74	0.05					
				56	13	30	1	3	41	21	34	1				453	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
				MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
SANTA ANA RIVER HYDRO UNIT Y0100																	
LOWER SANTA ANA RIV HYDRO SUBUNITY01A0 EAST COASTAL PLAIN HYDRO SUBAREA Y01A1																	
5S/11W-27P 3 S	69	8.6	411	31	4	53	2	10	182	0	32	2	0.6	0.08	--	232	94
1-28-66				1.55	0.33	2.30	0.05	0.33	2.98		0.90	0.03					
				37	8	54	1	8	70		21	1				224	
5S/11W-28D 4 S	--	8.3	845	98	27	45	4	12	198	220	26	0.9	0.4	0.09	--	593	356
1-28-66				4.89	2.22	1.96	0.10	0.40	3.25	4.58	0.73	0.01					
				53	24	21	1	4	36	51	8					531	
5S/11W-29B13 S	68	3.3	7062	543	146	386	46	0	0	0	2308	4.0	0.1	0.29	--	4532	1957
3- 4-66				27.10	12.01	16.78	1.18				65.09	0.06					
				47	21	29	2				00					3433	
5S/11W-32A 1 S	73	7.7	2836	73	20	498	6	--	366	0	752	1.2	0.6	1.30	--	1560	264
9-29-66				3.64	1.64	21.65	0.15		6.00		21.21	0.02					
				13	6	80	1		22		78					1532	
5S/11W-33H 1 S	--	8.4	363	7	1	75	1	10	178	0	19	0.9	0.6	0.15	--	218	22
1-28-66				0.35	0.08	3.26	0.03	0.33	2.92		0.54	0.01					
				9	2	88	1	9	77		14					202	
5S/11W-34F 3 S	85	8.6	628	6	0	141	2	17	317	4	21	6.0	0.6	0.64	--	394	15
1-28-66				0.30		6.13	0.05	0.57	5.20	0.08	0.59	0.10					
				5		95	1	9	80	1	9	2				354	
	--	7.7	604	5	1	146	3	0	371	0	17	12	0.7	0.60	--	420	17
4-20-66				0.25	0.08	6.35	0.08		6.08		0.48	0.19					
				4	1	94	1		90		7	3				368	
5S/11W-35C 4 S	--	8.3	362	13	1	67	1	6	171	12	17	1.5	0.6	0.11	--	204	37
1-27-66				0.65	0.08	2.91	0.03	0.20	2.80	0.25	0.48	0.02					
				18	2	79	1	5	75	7	13	1				203	
5S/11W-36B 2 S	--	8.2	494	58	9	32	3	--	210	45	25	3.0	0.4	0.05	--	270	182
1-27-66				2.89	0.74	1.39	0.08		3.44	0.94	0.71	0.05					
				57	15	27	2		67	18	14	1				279	
5S/11W-36C 1 S	67	8.2	499	57	10	29	3	0	207	48	23	1.0	0.5	0.05	--	300	183
1-27-66				2.84	0.82	1.26	0.08		3.39	1.00	0.65	0.02					
				57	16	25	2		67	20	13					273	
5S/11W-36P 1 S	--	8.2	725	44	17	86	3	--	171	127	61	0.0	0.6	0.15	--	431	180
1-27-66				2.20	1.40	3.74	0.08		2.80	2.64	1.72						
				30	19	50	1		39	37	24					423	
6S/ 8W- 5E 2 S	--	7.6	1080	--	--	--	--	0	281	--	85	--	--	--	--		
10- 5-65									4.61		2.40						
	84	7.4	1040	--	--	--	--	0	286	--	79	8.4	--	--	--		
3-23-66									4.69		2.23	0.14					
6S/ 8W- 7Q 1 S	--	7.4	1270	--	--	--	--	0	204	--	168	36	0.1	--	--		
10- 5-65									3.34		4.74	0.58					
6S/ 8W- 7Q 1 S	--	7.3	1250	--	--	--	--	0	209	--	165	39	--	--	--		
3-23-66									3.43		4.65	0.63					
6S/ 9W- 1L 1 S	78	7.3	1270	--	--	--	--	0	240	--	159	--	--	--	--		
10- 5-65									3.93		4.48						
	--	7.2	1240	--	--	--	--	0	238	--	157	--	--	--	--		
4-26-66									3.90		4.43						
6S/ 9W- 2D 1 S	82	7.5	753	--	--	--	--	0	209	86	78	--	--	--	--		
3-23-66									3.43	1.79	2.20						
6S/ 9W- 5A 1 S	92	8.9	508	5	0	112	1	18	150	16	56	0	0.9	0.35	19	318	13
10- 5-65				0.25		4.87	0.03	0.60	2.46	0.33	1.58						
				5		95	1	12	49	7	32					302	
6S/10W- 1E 2 S	85	8.5	654	7	0	135	1	10	192	6	96	2.0	0.9	0.53	--	394	18
1-28-66				0.35		5.87	0.03	0.33	3.15	0.12	2.71	0.03					
				6		94		5	50	2	43					353	
	--	7.8	452	--	--	--	--	0	166	--	51	--	--	--	--		
3-29-66									2.72		1.44						

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
SANTA ANA RIVER HYDRO UNIT Y0100																	
MIDDLE SANTA ANA RIV HYDR SUBUNITY01B0																	
CHINO HYDRO SUBAREA Y01B1																	
6S/10W- 1L 1 S	--	7.9	861	--	--	--	--	0	184	--	49	--	--	--	--		
10-19-65									3.02		1.38						
	--	7.8	908	--	--	--	--	0	188	--	52	--	--	--	--		
3-23-66									3.08		1.47						
6S/10W- 5B 3 S	61	8.3	416	38	8	40	1	--	177	43	17	0.0	0.2	0.04	--	241	12
1-27-66				1.90	0.66	1.74	0.03		2.90	0.90	0.48						
				44	15	40	1		68	21	11					234	
6S/10W- 5B 4 S	--	8.0	438	43	9	38	2	0	198	45	15	0	0.3	0.06	--	250	14
10- 1-65				2.15	0.74	1.65	0.05		3.25	0.94	0.42						
				47	16	36	1		70	20	9					250	
6S/11W- 1N 2 S	64	8.0	510	14	0	109	1	0	293	0	20	1.0	0.7	0.50	--	321	3
1-27-66				0.70		4.74	0.03		4.80		0.56	0.02					
				13		87	1		89		10					290	
6S/11W- 3R 2 S	--	7.8	639	21	5	105	1	--	195	9	96	2	0.6	0.28	--	352	7
1-28-66				1.05	0.41	4.57	0.03		3.20	0.19	2.71	0.03					
				17	7	75			52	3	44					336	
6S/11W-12E 3 S	--	8.3	647	41	9	81	3	5	176	95	49	2	0.6	0.14	--	387	14
1-27-66				2.05	0.74	3.52	0.08	0.17	2.88	1.98	1.38	0.03					
				32	12	55	1	3	45	31	21					372	
SANTIAGO HYDRO SUBAREA Y01A2																	
5S/ 7W-19R 1 S	--	7.4	770	90	25	40	2	0	285	158	18	0	0.2	0.09	26	554	32
3-31-66				4.49	2.06	1.74	0.05		4.67	3.29	0.51						
				54	25	21	1		55	39	6					499	
5S/ 8W- 1N 1 S	--	7.6	1220	68	16	178	2	0	266	344	46	0	--	0.15	22	856	23
3-31-66				3.39	1.32	7.74	0.05		4.36	7.16	1.30						
				27	11	62			34	56	10					807	
5S/ 8W-13C 1 S	--	7.4	678	85	22	26	1	0	248	118	19	4	0.2	0.07	27	478	30
3-31-66				4.24	1.81	1.13	0.03		4.06	2.46	0.54	0.06					
				59	25	16			57	35	8	1				424	
SANTA ANA NARROWS HYDRO SUBAREA Y01A3																	
3S/ 8W-25J 1 S	--	7.7	1640	--	--	--	--	0	384	361	153	0	--	--	--		
3-31-66									6.29	7.52	4.31						
3S/ 8W-31E 2 S	--	7.5	1220	106	32	108	5	0	191	317	105	2	0.5	0.11	14	831	39
10- 5-65				5.29	2.63	4.70	0.13		3.13	6.60	2.96	0.03					
				41	21	37	1		25	52	23					784	
	--	7.5	1220	--	--	--	--	0	186	306	113	5	--	--	--		
3-31-66									3.05	6.37	3.19	0.08					
3S/ 8W-33K 2 S	--	7.2	2100	209	85	138	4	0	368	624	176	3	0.6	0.14	35	1593	87
3-31-66				10.43	6.99	6.00	0.10		6.03	12.99	4.96	0.05					
				44	30	26			25	54	21					1456	
3S/ 8W-34F 1 S	--	7.3	1520	--	--	--	--	0	354	340	137	4	--	--	--		
3-31-66									5.80	7.08	3.86	0.06					
1S/ 5W- 6D 1 S	--	8.2	306	42	10	8	2	0	157	22	5	3.4	0.5	0.04	--	193	14
2-25-66				2.10	0.82	0.35	0.05		2.57	0.46	0.14	0.05					
				63	25	11	2		80	14	4	2				170	
1S/ 5W- 7N 1 S	--	8.0	316	45	9	8	2	0	159	24	5	3.6	0.5	0.01	--	195	15
3- 4-66				2.25	0.74	0.35	0.05		2.61	0.50	0.14	0.06					
				66	22	10	1		79	15	4	2				175	
1S/ 5W-15G 1 S	--	8.2	413	62	8	18	2	0	187	27	11	30	0.4	0.03	--	284	18
2-25-66				3.09	0.66	0.78	0.05		3.06	0.56	0.31	0.48					
				67	14	17	1		69	13	7	11				250	
1S/ 5W-16J 1 S	--	7.7	434	58	10	17	2	0	181	28	11	34	0.3	0.02	--	290	18
3- 4-66				2.89	0.82	0.74	0.05		2.97	0.58	0.31	0.55					
				64	18	16	1		67	13	7	12				249	
1S/ 5W-36A 1 S	69	8.3	838	54	4	60	98	7	295	55	55	20	0.6	0.62	--	540	15
9-16-66				2.69	0.33	2.61	2.51	0.23	4.84	1.15	1.55	0.32					
				33	4	32	31	3	60	14	19	4				499	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
SANTA ANA RIVER HYDRO UNIT Y0100																	
MIDDLE SANTA ANA RIV HYDR SUBUNITY0190 CHINO HYDRO SUBAREA Y0181																	
1S/ 6W- 8Q 1 S	--	7.8	302	35	8	17	2	0	162	7	9	8	0.3	0	--	187	121
10- 5-65				1.75	0.66	0.74	0.05		2.66	0.15	0.25	0.13					
				55	21	23	2		83	5	8	4				166	
	--	7.6	341	41	8	18	2	0	179	4	8	12.0	0.4	0	--	204	136
3-29-66				2.05	0.66	0.78	0.05		2.93	0.08	0.23	0.19					
				58	19	22	1		85	2	7	6				181	
1S/ 6W-11B 1 S	--	7.7	366	53	7	18	2	0	209	6	9	8.7	0.2	0	--	213	161
1- 7-66				2.64	0.58	0.78	0.05		3.43	0.12	0.25	0.14					
				65	14	19	1		87	3	6	4				207	
	--	7.7	364	52	7	17	2	0	206	8	8	9.2	0.2	0.03	--	223	159
7-15-66				2.59	0.58	0.74	0.05		3.38	0.17	0.23	0.15					
				65	15	19	1		86	4	6	4				205	
1S/ 6W-11N 1 S	--	7.8	359	49	8	17	2	0	203	6	9	8.8	0.3	0	--	222	156
1- 7-66				2.45	0.66	0.74	0.05		3.33	0.12	0.25	0.14					
				63	17	19	1		87	3	7	4				200	
	--	7.8	362	51	9	12	2	0	196	15	7	5.7	0.4	0.04	--	212	164
7-15-66				2.54	0.74	0.52	0.05		3.21	0.31	0.20	0.09					
				66	19	14	1		84	8	5	2				198	
1S/ 6W-12P 1 S	--	7.9	383	50	8	20	2	0	198	10	11	19	0.2	0	--	237	158
1- 7-66				2.50	0.66	0.87	0.05		3.25	0.21	0.31	0.31					
				61	16	21	1		80	5	8	8				218	
	--	8.0	367	53	11	11	2	0	192	23	8	8.3	0.4	0.03	--	223	177
7-15-66				2.64	0.90	0.48	0.05		3.15	0.48	0.23	0.13					
				65	22	12	1		79	12	6	3				211	
1S/ 6W-16A 1 S	--	7.4	341	40	11	17	2	0	188	10	11	6.0	0.3	0	--	210	145
3-28-66				2.00	0.90	0.74	0.05		3.08	0.21	0.31	0.10					
				54	24	20	1		83	6	8	3				190	
1S/ 6W-16L 1 S	--	7.8	348	35	8	26	4	0	142	38	14	0.6	1.6	0.05	--	201	121
1- 7-66				1.75	0.66	1.13	0.10		2.33	0.79	0.39	0.01					
				48	18	31	3		66	22	11					197	
1S/ 6W-17F 1 S	--	7.8	295	37	7	15	2	0	164	6	7	6	0.2	0	--	180	122
10- 5-65				1.85	0.58	0.65	0.05		2.69	0.12	0.20	0.10					
				59	19	21	2		86	4	6	3				161	
1S/ 6W-17G 1 S	--	7.7	286	34	7	17	2	0	156	9	7	5	0.2	0	--	170	114
10- 7-65				1.70	0.58	0.74	0.05		2.56	0.19	0.20	0.08					
				55	19	24	2		84	6	7	3				158	
1S/ 6W-17H 1 S	--	7.8	267	32	6	16	2	0	145	11	6	6	0.2	0	--	160	105
10- 7-65				1.60	0.49	0.70	0.05		2.38	0.23	0.17	0.10					
				56	17	25	2		83	8	6	3				150	
	--	7.7	272	33	4	17	2	0	149	7	6	5.5	0.1	0.02	--	140	99
4- 1-66				1.65	0.33	0.74	0.05		2.44	0.15	0.17	0.09					
				60	12	27	2		86	5	6	3				148	
1S/ 6W-21P 1 S	--	7.3	1458	244	23	39	4	0	203	335	209	6	0.3	0.02	--	1160	704
12- 8-65				12.18	1.89	1.70	0.10		3.33	6.97	5.89	0.10					
				77	12	11	1		20	43	36	1				960	
	--	7.5	1185	192	19	30	3	0	226	227	133	15.0	0.2	0	--	880	557
3-29-66				9.58	1.56	1.30	0.08		3.70	4.73	3.75	0.24					
				77	12	10	1		30	38	30	2				730	
1S/ 6W-28N 1 S	--	7.8	419	58	5	21	2	0	196	7	22	18.0	0.2	0	--	235	165
3-29-66				2.89	0.41	0.91	0.05		3.21	0.15	0.62	0.29					
				68	10	21	1		75	4	15	7				230	
1S/ 6W-29R 1 S	--	7.9	428	59	2	31	2	0	190	8	27	18	0.2	0.01	--	267	155
1- 7-66				2.94	0.16	1.35	0.05		3.11	0.17	0.76	0.29					
				65	4	30	1		72	4	18	7				241	
	--	7.9	445	59	5	25	2	0	192	10	28	21.0	0.2	0	--	248	168
3-29-66				2.94	0.41	1.09	0.05		3.15	0.21	0.79	0.34					
				65	9	24	1		70	5	18	8				245	
1S/ 6W-31D 1 S	--	7.8	252	28	6	16	2	0	138	10	5	2.0	0.2	0	--	134	95
3-29-66				1.40	0.49	0.70	0.05		2.26	0.21	0.14	0.03					
				53	19	27	2		86	8	5	1				137	
1S/ 6W-31M 1 S	--	7.7	492	54	13	28	2	0	215	7	35	22.0	0.3	0	--	267	188
3-29-66				2.69	1.07	1.22	0.05		3.52	0.15	0.99	0.35					
				53	21	24	1		70	3	20	7				267	
1S/ 6W-34M 1 S	--	7.7	424	57	6	21	2	0	174	13	27	21	0.2	0.05	--	267	167
7-15-66				2.84	0.49	0.91	0.05		2.85	0.27	0.76	0.34					
				66	11	21	1		68	6	18	8				233	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
SANTA ANA RIVER HYDRO UNIT Y0100																	
MIDDLE SANTA ANA RIV HYDR SUBUNITY01B0 CHINO HYDRO SUBAREA Y01B1																	
1S/ 6W-35A 1 S	--	8.0	316	48	8	8	2	0	170	19	3	3.7	0.5	0	--	184	153
1- 7-66				2.40	0.66	0.35	0.05		2.79	0.40	0.08	0.06					
				69	19	10	1		84	12	2	2				176	
	--	8.2	368	50	10	14	2	0	192	14	11	9.3	0.3	0	--	218	166
7-15-66				2.50	0.82	0.61	0.05		3.15	0.29	0.31	0.15					
				63	21	15	1		81	7	8	4				205	
1S/ 7W- 8N 1 S	--	7.6	353	49	7	13	2	0	188	12	7	12	0.5	0.01	--	216	15
1- 7-66				2.45	0.58	0.57	0.05		3.08	0.25	0.20	0.19					
				67	16	16	1		83	7	5	5				195	
1S/ 7W-20A 1 S	--	7.9	358	43	8	22	2	0	183	21	7	9.9	0.4	0.04	--	236	14
1- 7-66				2.15	0.66	0.96	0.05		3.00	0.44	0.20	0.16					
				56	17	25	1		79	12	5	4				203	
	--	7.7	375	45	12	15	2	0	174	16	9	29	0.4	0.04	--	249	16
7-19-66				2.25	0.99	0.65	0.05		2.85	0.33	0.25	0.47					
				57	25	16	1		73	8	6	12				214	
1S/ 7W-21D 1 S	--	8.1	328	32	10	24	2	0	164	22	6	7.0	0.4	0.02	--	196	12
3- 7-66				1.60	0.82	1.04	0.05		2.69	0.46	0.17	0.11					
				46	23	30	1		78	13	5	3				184	
	--	7.8	327	33	10	22	2	0	167	16	7	6.7	0.4	0.02	--	212	12
7-19-66				1.65	0.82	0.96	0.05		2.74	0.33	0.20	0.11					
				47	24	28	1		81	10	6	3				179	
1S/ 7W-23D 1 S	--	7.6	367	43	12	16	2	0	196	6	10	14.0	0.2	0.06	--	228	15
3- 8-66				2.15	0.99	0.70	0.05		3.21	0.12	0.28	0.23					
				55	25	18	1		84	3	7	6				200	
1S/ 7W-26A 1 S	--	8.0	305	42	8	19	2	0	196	12	5	3.0	0.2	0	--	187	13
3-29-66				2.10	0.66	0.83	0.05		3.21	0.25	0.14	0.05					
				58	18	23	1		88	7	4	1				188	
1S/ 7W-26P 1 S	--	7.9	347	44	7	19	2	0	199	15	4	2.0	0.2	0	--	196	13
3-29-66				2.20	0.58	0.83	0.05		3.26	0.31	0.11	0.03					
				60	16	23	1		88	8	3	1				191	
1S/ 7W-30Q 1 S	--	7.9	364	47	10	15	2	0	187	10	8	16.6	0.3	0.02	--	227	15
3- 7-66				2.35	0.82	0.65	0.05		3.06	0.21	0.23	0.27					
				61	21	17	1		81	6	6	7				201	
1S/ 7W-34K 1 S	--	7.9	366	47	10	16	--	0	206	6	10	12	0.3	0	--	207	15
8-16-66				2.35	0.82	0.70			3.38	0.12	0.28	0.19					
				61	21	18			85	3	7	5				203	
1S/ 7W-35B 1 S	--	8.2	356	40	11	21	2	0	203	5	13	4.0	0.3	0	--	210	14
3-29-66				2.00	0.90	0.91	0.05		3.33	0.10	0.37	0.06					
				52	23	24	1		86	3	10	2				196	
1S/ 8W-10N 1 S	70	8.3	295	27	1	33	2	5	134	19	7	4.0	0.2	0	--	154	7
10-22-65				1.35	0.08	1.43	0.05	0.17	2.20	0.40	0.20	0.06					
				46	3	49	2	6	73	13	7	2				164	
1S/ 8W-14A 3 S	--	7.7	444	52	16	15	2	0	184	23	10	55	0.4	0.05	--	284	19
7- 8-66				2.59	1.32	0.65	0.05		3.02	0.48	0.28	0.89					
				56	29	14	1		65	10	6	19				264	
	--	7.8	447	56	14	16	2	0	176	26	9	52	0.4	0.01	--	302	19
8-10-66				2.79	1.15	0.70	0.05		2.88	0.54	0.25	0.84					
				59	25	15	1		64	12	6	19				262	
	--	7.7	451	57	14	15	2	0	189	26	10	55	0.3	0.09	--	290	20
9- 1-66				2.84	1.15	0.65	0.05		3.10	0.54	0.28	0.89					
				61	25	14	1		64	11	6	19				272	
1S/ 8W-14N 1 S	--	7.8	460	65	13	12	2	0	187	29	10	52	0.3	0	--	291	2
8-10-66				3.24	1.07	0.52	0.05		3.06	0.60	0.28	0.84					
				66	22	11	1		64	13	6	18				275	
	--	7.8	459	66	12	12	2	0	196	27	12	53	0.3	0.02	--	283	2
9- 1-66				3.29	0.99	0.52	0.05		3.21	0.56	0.34	0.85					
				68	20	11	1		65	11	7	17				281	
1S/ 8W-14A 1 S	--	7.8	451	57	15	15	2	0	193	28	9	52	0.4	0.02	--	309	2
10- 8-65				2.84	1.23	0.65	0.05		3.16	0.58	0.25	0.84					
				60	26	14	1		65	12	5	17				273	
	--	7.6	505	--	--	--	--	--	--	35	--	--	--	--	--	319	
10-14-65										0.73							
	--	7.7	467	--	--	--	--	--	--	28	--	--	--	--	--	300	
10-22-65										0.58							

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	FCX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
				MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
				SANTA ANA RIVER HYDRO UNIT													
MIDDLE SANTA ANA RIV HYDR SUBUNITY0180 / CHINO HYDRO SUBAREA								Y0181									
1S/ 8W-14A 1 S	--	7.7	565	75	17	13	2	0	183	49	11	92	0.4	0	--	339	257
11-18-65				3.74	1.40	0.57	0.05		3.00	1.02	0.31	1.48					
				65	24	10	1		52	18	5	25				349	
	--	7.6	447	57	13	16	2	0	186	25	13	51	0.4	0.03	--	290	196
12-23-65				2.84	1.07	0.70	0.05		3.05	0.52	0.37	0.82					
				61	23	15	1		64	11	8	17				269	
	--	7.8	456	55	15	15	2	0	186	30	8	44	0.4	0.08	--	293	199
1- 7-66				2.74	1.23	0.65	0.05		3.05	0.62	0.23	0.71					
				59	26	14	1		66	13	5	15				261	
	--	7.8	453	57	14	15	2	0	179	25	12	55	0.4	0.03	--	330	200
7-15-66				2.84	1.15	0.65	0.05		2.93	0.52	0.34	0.89					
				61	25	14	1		63	11	7	19				268	
1S/ 8W-14A 3 S	--	8.2	547	73	15	14	2	0	186	40	14	80	0.4	0.02	--	351	244
1- 6-66				3.64	1.23	0.61	0.05		3.05	0.83	0.39	1.29					
				66	22	11	1		55	15	7	23				330	
	--	7.7	464	--	--	--	--	--	--	27	--	--	--	--	--	287	
1-20-66										0.56							
	--	7.6	492	--	--	--	--	--	--	33	--	--	--	--	--	290	
1-27-66										0.69							
	--	7.8	450	55	15	16	2	0	190	24	8	52.0	0.4	0.02	--	280	199
2- 3-66				2.74	1.23	0.70	0.05		3.11	0.50	0.23	0.84					
				58	26	15	1		66	11	5	18				266	
	--	7.8	452	56	14	16	2	0	181	29	9	53.8	0.4	0.03	--	291	197
3-11-66				2.79	1.15	0.70	0.05		2.97	0.60	0.25	0.87					
				59	25	15	1		63	13	5	19				269	
	--	7.9	452	56	16	15	3	0	187	27	12	55	0.4	0.02	--	300	206
6- 9-66				2.79	1.32	0.65	0.08		3.06	0.56	0.34	0.89					
				58	27	13	2		63	12	7	18				276	
	--	7.7	444	52	16	15	2	0	184	23	10	55	0.4	0.05	--	284	196
7- 8-66				2.59	1.32	0.65	0.05		3.02	0.48	0.28	0.89					
				56	29	14	1		65	10	6	19				264	
1S/ 8W-14N 1 S	--	7.9	456	64	13	12	2	0	198	25	9	49	0.4	0.02	--	300	213
10- 8-65				3.19	1.07	0.52	0.05		3.25	0.52	0.25	0.79					
				66	22	11	1		68	11	5	16				272	
1S/ 8W-14N 1 S	--	8.0	489	67	12	12	2	0	193	27	13	51.0	0.3	0.04	--	310	217
1- 6-66				3.34	0.99	0.52	0.05		3.16	0.56	0.37	0.82					
				68	20	11	1		64	11	8	17				279	
	--	7.7	471	--	--	--	--	--	--	28	--	--	--	--	--	277	
1-27-66										0.58							
	--	7.8	466	63	13	12	2	0	193	26	9	53.0	0.3	0.01	--	278	211
2- 3-66				3.14	1.07	0.52	0.05		3.16	0.54	0.25	0.85					
				66	22	11	1		66	11	5	18				273	
	--	7.8	469	61	15	12	2	0	187	29	10	55.0	0.3	0.02	--	283	214
3-11-66				3.04	1.23	0.52	0.05		3.06	0.60	0.28	0.89					
				63	25	11	1		63	12	6	18				276	
	--	7.8	465	68	13	11	2	0	194	29	10	54	0.3	0.04	--	295	223
6- 9-66				3.39	1.07	0.48	0.05		3.18	0.60	0.28	0.87					
				68	21	10	1		65	12	6	18				283	
	--	7.8	460	62	15	11	2	0	192	26	11	53.0	0.3	0.15	--	267	216
7- 8-66				3.09	1.23	0.48	0.05		3.15	0.54	0.31	0.85					
				64	25	10	1		65	11	6	18				275	
1S/ 8W-15J 1 S	--	7.7	392	46	15	13	2	0	174	22	9	31	0.3	0.61	--	234	177
7- 8-66				2.30	1.23	0.57	0.05		2.85	0.46	0.25	0.50					
				55	30	14	1		70	11	6	12				224	
	--	8.0	384	53	10	13	2	0	174	26	7	29	0.3	0	--	270	173
8-10-66				2.64	0.82	0.57	0.05		2.85	0.54	0.20	0.47					
				65	20	14	1		70	13	5	12				226	
	--	7.6	384	53	10	13	2	0	181	23	9	29	0.3	0.03	--	241	173
9- 1-66				2.64	0.82	0.57	0.05		2.97	0.48	0.25	0.47					
				65	20	14	1		71	12	6	11				228	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
SANTA ANA RIVER HYDRO UNIT Y0100																	
MIDDLE SANTA ANA RIV HYDR SUBUNITY01B0																	
CHINO HYDRO SUBAREA Y01B1																	
1S/ 8W-15P 2 S	--	8.0	376	51	9	16	2	0	179	23	7	23	0.3	0	--	244	164
8-10-66				2.54	0.74	0.70	0.05		2.93	0.48	0.20	0.37					
				63	18	17	1		74	12	5	9				219	
	--	7.7	460	66	12	15	2	0	201	39	11	35	0.2	0.02	--	309	214
9- 1-66				3.29	0.99	0.65	0.05		3.29	0.81	0.31	0.56					
				66	20	13	1		66	16	6	11				279	
1S/ 8W-15P 5 S	--	7.8	431	62	13	11	2	0	194	21	11	39	0.3	0	--	227	208
7- 8-66				3.09	1.07	0.48	0.05		3.18	0.44	0.31	0.63					
				66	23	10	1		70	10	7	14				255	
	--	7.9	427	61	12	11	2	0	192	22	9	40	0.3	0.01	--	305	202
8-10-66				3.04	0.99	0.48	0.05		3.15	0.46	0.25	0.65					
				67	22	11	1		70	10	6	14				252	
1S/ 8W-15Q 2 S	--	7.8	478	66	10	18	2	0	174	49	17	39	0.3	0.01	--	327	206
8-10-66				3.29	0.82	0.78	0.05		2.85	1.02	0.48	0.63					
				67	17	16	1		57	20	10	13				287	
	--	7.8	428	69	2	19	2	0	171	37	13	33	0.3	0	--	287	180
9- 1-66				3.44	0.16	0.83	0.05		2.80	0.77	0.37	0.53					
				77	4	19	1		63	17	8	12				259	
1S/ 8W-15J 1 S	--	7.8	402	55	13	13	2	0	189	27	10	34	0.3	0.03	--	294	191
10- 8-65				2.74	1.07	0.57	0.05		3.10	0.56	0.28	0.55					
				62	24	13	1		69	12	6	12				247	
	--	7.7	405	--	--	--	--	--	--	24	--	--	--	--	--	262	
10-14-65										0.50							
	--	7.8	406	--	--	--	--	--	--	23	--	--	--	--	--	260	
10-22-65										0.48							
	--	7.9	397	--	--	--	--	--	--	24	--	--	--	--	--	257	
10-28-65										0.50							
	--	7.6	438	--	--	--	--	--	--	25	--	--	--	--	--	249	
11- 4-65										0.52							
	--	7.6	396	--	--	--	--	--	--	25	--	--	--	--	--	283	
11-12-65										0.52							
	--	7.1	404	54	12	12	2	0	178	28	8	24	0.3	0	--	232	184
11-18-65				2.69	0.99	0.52	0.05		2.92	0.58	0.23	0.39					
				63	23	12	1		71	14	6	9				228	
	--	7.7	410	56	10	13	2	0	180	22	8	34	0.3	0.04	--	240	181
12-16-65				2.79	0.82	0.57	0.05		2.95	0.46	0.23	0.55					
				66	19	13	1		70	11	5	13				234	
	--	7.6	399	--	--	--	--	--	--	23	--	--	--	--	--	265	
12-23-65										0.48							
	--	8.1	409	56	11	13	2	0	183	26	9	26	0.3	0.04	--	276	185
1- 6-66				2.79	0.90	0.57	0.05		3.00	0.54	0.25	0.42					
				65	21	13	1		71	13	6	10				233	
	--	7.7	407	--	--	--	--	--	--	23	--	--	--	--	--	248	
1-20-66										0.48							
	--	7.4	408	--	--	--	--	--	--	27	--	--	--	--	--	245	
1-27-66										0.56							
	--	7.8	418	53	13	14	2	0	174	31	9	34.0	0.3	0	--	255	186
3-11-66				2.64	1.07	0.61	0.05		2.85	0.65	0.25	0.55					
				60	24	14	1		66	15	6	13				242	
	--	8.0	399	54	11	13	2	0	179	26	12	32	0.3	0.01	--	272	180
6- 9-66				2.69	0.90	0.57	0.05		2.93	0.54	0.34	0.52					
				64	21	14	1		68	12	8	12				238	
	--	7.7	392	46	15	13	2	0	174	22	9	31	0.3	0.61	--	234	177
7- 8-66				2.30	1.23	0.57	0.05		2.85	0.46	0.25	0.50					
				55	30	14	1		70	11	6	12				224	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
SANTA ANA RIVER HYDRO UNIT Y0100																	
MIDDLE SANTA ANA RIV HYDR SUBUNITY0180																	
CHINO HYDRO SUBAREA Y0181																	
1S/ 8W-15P 2 S	--	7.8	388	--	--	--	--	--	--	24	--	--	--	--	--	242	
10-14-65										0.50							
	--	7.7	389	--	--	--	--	--	--	29	--	--	--	--	--	244	
10-22-65										0.60							
	--	8.1	413	56	9	16	2	0	188	27	7	34	0.3	0.03	--	278	177
1- 6-66				2.79	0.74	0.70	0.05		3.08	0.56	0.20	0.55					
				65	17	16	1		70	13	5	13				244	
	--	7.7	401	--	--	--	--	--	--	24	--	--	--	--	--	235	
1-20-66										0.50							
	--	7.8	397	--	--	--	--	--	--	25	--	--	--	--	--	228	
1-27-66										0.52							
	--	7.5	459	63	11	15	2	0	188	39	14	34.0	0.3	0.02	--	288	202
2- 3-66				3.14	0.90	0.65	0.05		3.08	0.81	0.39	0.55					
				66	19	14	1		64	17	8	11				271	
	--	7.9	430	59	11	16	2	0	184	33	10	28.8	0.3	0.02	--	284	192
3-11-66				2.94	0.90	0.70	0.05		3.02	0.69	0.28	0.46					
				64	20	15	1		68	16	6	10				251	
	--	8.0	393	49	13	15	2	0	187	26	10	25	0.3	0.02	--	250	176
6- 9-66				2.45	1.07	0.65	0.05		3.06	0.54	0.28	0.40					
				58	25	15	1		71	13	7	9				232	
	--	7.9	382	47	12	16	2	0	181	19	7	24	0.3	0.11	--	201	167
7- 8-66				2.35	0.99	0.70	0.05		2.97	0.40	0.20	0.39					
				57	24	17	1		75	10	5	10				216	
1S/ 8W-15P 3 S	--	7.8	388	--	--	--	--	--	--	24	--	--	--	--	--	242	
10-14-65										0.50							
	--	7.7	389	--	--	--	--	--	--	29	--	--	--	--	--	244	
10-22-65										0.60							
	--	7.7	391	--	--	--	--	--	--	25	--	--	--	--	--	252	
11- 4-65										0.52							
	--	7.6	394	--	--	--	--	--	--	26	--	--	--	--	--	276	
11-12-65										0.54							
	--	7.4	386	52	10	16	2	0	183	25	7	24	0.2	0	--	227	171
11-18-65				2.59	0.82	0.70	0.05		3.00	0.52	0.20	0.39					
				62	20	17	1		73	13	5	9				226	
	--	7.7	436	61	10	15	2	0	190	34	13	26	0.3	0.02	--	285	193
12-23-65				3.04	0.82	0.65	0.05		3.11	0.71	0.37	0.42					
				67	18	14	1		67	15	8	9				255	
1S/ 8W-15P 4 S	--	7.8	431	62	13	11	2	0	194	21	11	39	0.3	0	--	227	208
7- 8-66				3.09	1.07	0.48	0.05		3.18	0.44	0.31	0.63					
				66	23	10	1		70	10	7	14				255	
1S/ 8W-15P 5 S	--	7.7	422	--	--	--	--	--	--	21	--	--	--	--	--	266	
10-22-65										0.44							
1S/ 8W-15Q 2 S	--	7.7	389	--	--	--	--	--	--	24	--	--	--	--	--	243	
10-22-65										0.50							
	--	7.9	378	--	--	--	--	--	--	32	--	--	--	--	--	254	
10-28-65										0.67							
	--	7.3	477	--	--	--	--	--	--	15	--	--	--	--	--	292	
11- 4-65										0.31							
	--	7.5	477	--	--	--	--	--	--	34	--	--	--	--	--	330	
11-12-65										0.71							
	--	8.0	498	69	13	15	2	0	187	48	20	43	0.3	0.01	--	326	226
6- 9-66				3.44	1.07	0.65	0.05		3.06	1.00	0.56	0.69					
				66	21	12	1		58	19	11	13				302	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
				SANTA ANA RIVER HYDRO UNIT Y0100													
MIDDLE SANTA ANA RIV HYDR SUBUNITY0180 CHINO HYDRO SUBAREA Y0181																	
1S/ 8W-15Q 2 S	--	7.8	408	42	15	19	2	0	169	27	10	34	0.3	0	--	272	167
7- 8-66				2.10	1.23	0.83	0.05		2.77	0.56	0.28	0.55					
				50	29	20	1		67	13	7	13				232	
1S/ 8W-16B 1 S	68	7.9	394	26	4	47	1	0	118	21	28	21.0	0.2	0	--	204	82
10-22-65				1.30	0.33	2.04	0.03		1.93	0.44	0.79	0.34					
				35	9	55	1		55	13	23	10				206	
1S/ 8W-23A 3 S	--	7.7	520	65	20	12	3	0	184	31	12	81	0.3	0.07	--	299	244
7- 8-66				3.24	1.64	0.52	0.08		3.02	0.65	0.34	1.31					
				59	30	9	1		57	12	6	25				315	
	--	7.7	517	71	14	12	2	0	184	34	11	75	0.3	0	--	335	235
8-10-66				3.54	1.15	0.52	0.05		3.02	0.71	0.31	1.21					
				67	22	10	1		58	14	6	23				310	
	--	7.9	517	72	14	13	2	0	189	33	13	75	0.3	0.36	--	327	237
9- 1-66				3.59	1.15	0.57	0.05		3.10	0.69	0.37	1.21					
				67	21	11	1		58	13	7	23				316	
	--	7.8	516	70	16	12	2	0	196	33	11	74	0.4	0.02	--	353	241
10- 8-65				3.49	1.32	0.52	0.05		3.21	0.69	0.31	1.19					
				65	25	10	1		59	13	6	22				315	
	--	7.7	522	--	--	--	--	--	--	35	--	--	--	--	--	318	
10-28-65										0.73							
	--	7.9	529	72	15	12	3	0	192	37	12	82	0.3	0.02	--	331	241
6- 9-66				3.59	1.23	0.52	0.08		3.15	0.77	0.34	1.32					
				66	23	10	1		56	14	6	24				328	
	--	7.7	520	65	20	12	3	0	184	31	12	81	0.3	0.07	--	299	244
7- 8-66				3.24	1.64	0.52	0.08		3.02	0.65	0.34	1.31					
				59	30	9	1		57	12	6	25				315	
1S/ 8W-24E 1 S	--	7.7	518	72	14	12	2	0	184	27	16	81	0.3	0.84	--	303	237
7- 8-66				3.59	1.15	0.52	0.05		3.02	0.56	0.45	1.31					
				68	22	10	1		57	10	8	25				316	
1S/ 8W-25Q 1 S	--	7.8	354	38	12	21	2	0	189	8	7	17	0.3	0.11	--	179	145
7- 8-66				1.90	0.99	0.91	0.05		3.10	0.17	0.20	0.27					
				49	26	24	1		83	5	5	7				198	
	--	7.9	354	43	8	21	2	0	187	10	7	17	0.3	0	--	224	141
8-10-66				2.15	0.66	0.91	0.05		3.06	0.21	0.20	0.27					
				57	18	24	1		82	6	5	7				200	
	--	7.9	355	40	10	21	2	0	192	9	8	17	0.3	0	--	213	141
9- 1-66				2.00	0.82	0.91	0.05		3.15	0.19	0.23	0.27					
				53	22	24	1		82	5	6	7				202	
1S/ 8W-25B 1 S	--	7.7	455	63	11	12	2	0	192	18	11	52	0.3	0.02	--	298	202
10-22-65				3.14	0.90	0.52	0.05		3.15	0.37	0.31	0.84					
				68	20	11	1		67	8	7	18				264	
	--	7.1	485	25	14	12	2	0	137	14	11	8.0	0.2	0.02	--	163	120
11-12-65				1.25	1.15	0.52	0.05		2.25	0.29	0.31	0.13					
				42	39	18	2		76	10	10	4				154	
	--	7.9	248	24	10	12	2	0	118	16	9	0.7	0.2	0.03	--	146	101
3-11-66				1.20	0.82	0.52	0.05		1.93	0.33	0.25	0.01					
				46	32	20	2		77	13	10					132	
	--	7.9	291	29	14	12	2	0	147	17	10	12	0.3	0.03	--	177	130
6- 9-66				1.45	1.15	0.52	0.05		2.41	0.35	0.28	0.19					
				46	36	16	2		75	11	9	6				169	
1S/ 8W-25Q 1 S	--	7.8	355	43	9	21	2	0	201	9	7	16	0.3	0.01	--	149	145
10- 8-65				2.15	0.74	0.91	0.05		3.29	0.19	0.20	0.26					
				56	19	24	1		84	5	5	7				206	
	--	7.8	357	--	--	--	--	--	--	9	--	--	--	--	--	213	
10-14-65										0.19							
	--	7.5	357	--	--	--	--	--	--	12	--	--	--	--	--	218	
11-12-65										0.25							
	--	8.0	361	43	8	24	2	0	193	16	7	16	0.2	0.05	--	240	141
1- 6-66				2.15	0.66	1.04	0.05		3.16	0.33	0.20	0.26					
				55	17	27	1		80	8	5	7				211	

TABLE L-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
				MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
								SANTA ANA RIVER HYDRO UNIT				Y0100					
MIDDLE SANTA ANA RIV HYDR SUBUNITY0180 / CHINO HYDRO SUBAREA								Y0181									
1S/ 8W-25Q 1 S	--	7.6	358	--	--	--	--	--	--	9	--	--	--	--	--	196	
1-20-66										0.19							
	--	7.8	358	--	--	--	--	--	--	11	--	--	--	--	--	196	
1-27-66										0.23							
	--	7.8	355	40	8	23	2	0	190	10	6	16.0	0.3	0.02	--	215	133
2- 3-66				2.00	0.66	1.00	0.05		3.11	0.21	0.17	0.26					
				54	18	27	1		83	6	5	7				199	
	--	7.9	357	33	14	22	2	0	189	10	6	17.5	0.3	0.01	--	217	140
3-11-66				1.65	1.15	0.96	0.05		3.10	0.21	0.17	0.28					
				43	30	25	1		82	6	5	7				198	
	--	8.1	356	39	11	21	2	0	192	11	6	18	0.3	0.02	--	212	143
6- 9-66				1.95	0.90	0.91	0.05		3.15	0.23	0.17	0.29					
				51	24	24	1		82	6	4	8				203	
	--	7.8	354	38	12	21	2	0	189	8	7	17	0.3	0.11	--	179	145
7- 8-66				1.90	0.99	0.91	0.05		3.10	0.17	0.20	0.27					
				49	26	24	1		83	5	5	7				198	
1S/ 8W-26B 1 S	--	7.8	493	73	12	11	2	0	181	32	14	77	0.3	0	--	336	232
8-10-66				3.64	0.99	0.48	0.05		2.97	0.67	0.39	1.24					
				71	19	9	1		56	13	7	24				310	
	--	7.6	496	73	12	11	2	0	189	31	15	69	0.3	0.01	--	330	232
9- 1-66				3.64	0.99	0.48	0.05		3.10	0.65	0.42	1.11					
				71	19	9	1		59	12	8	21				306	
	--	7.8	497	71	13	11	2	0	196	29	11	64	0.4	0.01	--	350	231
10- 8-65				3.54	1.07	0.48	0.05		3.21	0.60	0.31	1.03					
				69	21	9	1		62	12	6	20				298	
	--	7.8	490	--	--	--	--	--	--	30	--	--	--	--	--	312	
10-14-65										0.62							
	--	7.7	492	--	--	--	--	--	--	30	--	--	--	--	--	320	
10-22-65										0.62							
	--	7.8	490	--	--	--	--	--	--	29	--	--	--	--	--	311	
10-28-65										0.60							
	--	7.3	494	67	15	11	2	0	186	29	12	68	0.3	0	--	342	229
11-12-65				3.34	1.23	0.48	0.05		3.05	0.60	0.34	1.10					
				65	24	9	1		60	12	7	22				296	
1S/ 8W-26B 1 S	--	8.1	506	73	13	11	2	0	187	33	13	73	0.3	0.02	--	322	236
6- 9-66				3.64	1.07	0.48	0.05		3.06	0.69	0.37	1.18					
				69	20	9	1		58	13	7	22				310	
	--	7.8	499	73	13	11	2	0	184	27	12	70	0.4	0.07	--	305	236
7- 8-66				3.64	1.07	0.48	0.05		3.02	0.56	0.34	1.13					
				69	20	9	1		60	11	7	22				299	
1S/ 8W-27K 1 S	--	7.8	435	60	14	9	2	0	189	21	12	46	0.4	0.02	--	265	207
6- 9-66				2.99	1.15	0.39	0.05		3.10	0.44	0.34	0.74					
				65	25	9	1		67	10	7	16				257	
	--	7.8	417	62	10	9	2	0	184	20	9	40	0.3	0	--	261	196
8-10-66				3.09	0.82	0.39	0.05		3.02	0.42	0.25	0.65					
				71	19	9	1		70	10	6	15				243	
	--	7.7	472	58	19	9	2	0	482	22	13	57	0.3	0.12	--	290	223
9- 1-66				2.89	1.56	0.39	0.05		7.90	0.46	0.37	0.92					
				59	32	8	1		82	5	4	10				417	
	--	7.6	450	--	--	--	--	--	--	22	--	--	--	--	--	294	
10-22-65										0.46							
	--	7.5	444	64	13	9	2	0	190	23	10	48	0.3	0.01	--	298	213
11-12-65				3.19	1.07	0.39	0.05		3.11	0.48	0.28	0.77					
				68	23	8	1		67	10	6	17				263	
	--	7.7	415	56	14	9	2	0	187	19	8	38.0	0.3	0.01	--	252	197
3-11-66				2.79	1.15	0.39	0.05		3.06	0.40	0.23	0.61					
				64	26	9	1		71	9	5	14				238	
	--	7.8	435	60	14	9	2	0	189	21	12	46	0.4	0.02	--	265	207
6- 9-66				2.99	1.15	0.39	0.05		3.10	0.44	0.34	0.74					
				65	25	9	1		67	10	7	16				257	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
SANTA ANA RIVER HYDRO UNIT Y0100																	
MIDDLE SANTA ANA RIV HYDR SUBUNITY01B0 CHINO HYDRO SUBAREA Y01B1																	
1S/ 8W-28E 2 S	--	7.7	431	--	--	--	--	--	--	29	--	--	--	--	--	283	
10-22-65										0.60							
	--	7.9	382	53	9	14	2	0	174	25	6	26	0.3	0	--	269	169
8-10-66				2.64	0.74	0.61	0.05		2.85	0.52	0.17	0.42					
				65	18	15	1		72	13	4	11				221	
1S/ 8W-28G 1 S	--	7.8	434	62	11	13	2	0	179	27	10	44	0.3	0	--	293	200
8-10-66				3.09	0.90	0.57	0.05		2.93	0.56	0.28	0.71					
				67	20	12	1		65	13	6	16				257	
1S/ 8W-28E 1 S	77	8.2	405	52	9	17	2	--	188	23	7	22	0.2	0.03	15	239	167
7-11-66				2.59	0.74	0.74	0.05		3.08	0.48	0.20	0.35					
				63	18	18	1		75	12	5	9				240	
1S/ 8W-28E 2 S	68	8.1	536	71	13	11	2	0	165	44	16	70.0	0.3	0.53	--	334	231
10-22-65				3.54	1.07	0.48	0.05		2.70	0.92	0.45	1.13					
				69	21	9	1		52	18	9	22				309	
	--	7.7	431	--	--	--	--	--	--	29	--	--	--	--	--	283	
10-22-65										0.60							
1S/ 8W-28G 1 S	--	7.9	461	--	--	--	--	--	--	27	--	--	--	--	--	276	
10-28-65										0.56							
	--	7.0	457	--	--	--	--	--	--	26	--	--	--	--	--	273	
11- 4-65										0.54							
	--	7.5	460	--	--	--	--	--	--	26	--	--	--	--	--	316	
11-12-65										0.54							
	--	7.8	437	59	12	14	2	0	179	27	9	43.8	0.3	0.02	--	273	197
3-11-66				2.94	0.99	0.61	0.05		2.93	0.56	0.25	0.71					
				64	22	13	1		66	13	6	16				255	
	--	8.0	447	63	12	12	2	0	187	27	13	48	0.4	0.02	--	283	207
6- 9-66				3.14	0.99	0.52	0.05		3.06	0.56	0.37	0.77					
				67	21	11	1		64	12	8	16				269	
	--	7.7	440	63	12	12	2	0	181	24	12	48	0.4	0.22	--	243	207
7- 8-66				3.14	0.99	0.52	0.05		2.97	0.50	0.34	0.77					
				67	21	11	1		65	11	7	17				263	
1S/ 8W-28N 1 S	70	8.1	393	48	11	14	2	0	176	24	11	21.0	0.3	0.15	--	231	165
10-22-65				2.40	0.90	0.61	0.05		2.88	0.50	0.31	0.34					
				61	23	15	1		71	12	8	8				218	
1S/ 8W-30J 1 S	69	8.0	571	76	15	16	2	0	188	68	21	42.0	0.4	0.34	--	344	251
10-22-65				3.79	1.23	0.70	0.05		3.08	1.42	0.59	0.68					
				66	21	12	1		53	25	10	12				333	
1S/ 8W-35C 1 S	--	8.0	340	45	11	11	2	0	184	14	5	7.8	0.4	0.01	--	199	158
3- 7-66				2.25	0.90	0.48	0.05		3.02	0.29	0.14	0.13					
				61	24	13	1		84	8	4	4				187	
	--	7.8	353	50	10	10	2	0	189	14	7	13	0.4	0.03	--	220	166
7-15-66				2.50	0.82	0.43	0.05		3.10	0.29	0.20	0.21					
				66	22	11	1		82	8	5	6				199	
1S/ 8W-35C 2 S	--	7.8	413	58	13	10	2	0	189	17	10	37	0.3	0.03	--	269	198
7-15-66				2.89	1.07	0.43	0.05		3.10	0.35	0.28	0.60					
				65	24	10	1		72	8	6	14				240	
2S/ 5W- 7N 1 S	--	8.3	1733	151	63	140	4	2	387	220	177	162	0.6	0.06	--	1172	636
2- 4-66				7.53	5.18	6.09	0.10	0.07	6.34	4.58	4.99	2.61					
				40	27	32	1		34	25	27	14				1110	
2S/ 6W- 1Q 1 S	--	7.4	561	36	20	50	2	0	165	54	54	16	0.9	0.06	--	395	172
10- 4-65				1.80	1.64	2.17	0.05		2.70	1.12	1.52	0.26					
				32	29	38	1		48	20	27	5				314	
	--	7.5	567	38	18	52	2	0	161	56	57	17.0	0.9	0.06	--	350	169
4-25-66				1.90	1.48	2.26	0.05		2.64	1.17	1.61	0.27					
				33	26	40	1		46	21	28	5				320	
2S/ 6W- 5A 1 S	--	8.1	316	41	5	18	2	0	173	12	7	5.5	0.2	0	--	193	123
2- 4-66				2.05	0.41	0.78	0.05		2.84	0.25	0.20	0.09					
				62	12	24	2		84	7	6	3				176	
2S/ 6W-12M 1 S	--	8.2	1008	84	41	70	1	0	366	85	89	23.6	0.5	0.11	--	612	378
2- 4-66				4.19	3.37	3.04	0.03		6.00	1.77	2.51	0.38					
				39	32	29			56	17	24	4				574	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
SANTA ANA RIVER HYDRO UNIT Y0100																	
MIDDLE SANTA ANA RIV HYDR SUBUNITY01B0																	
CHINO HYDRO SUBAREA Y01B1																	
2S/ 6W-12M 2 S	--	8.2	1008	84	41	70	1	0	366	85	89	23.6	0.5	0.11	--	612	378
2- 4-66				4.19	3.37	3.04	0.03		6.00	1.77	2.51	0.38					
				39	32	29			56	17	24	4				574	
2S/ 6W-14K 1 S	--	8.4	1319	106	47	113	2	7	385	138	132	50.5	0.8	0.07	--	840	458
2- 4-66				5.29	3.87	4.91	0.05	0.23	6.31	2.87	3.72	0.81					
				37	27	35		2	45	21	27	6				786	
2S/ 6W-21Q 1 S	--	8.2	1106	130	8	95	4	0	324	116	136	4.0	0.2	0.27	--	701	358
2- 4-66				6.49	0.66	4.13	0.10		5.31	2.42	3.84	0.06					
				57	6	36	1		46	21	33	1				653	
2S/ 7W- 2G 1 S	--	8.1	427	50	12	23	2	0	218	8	19	15	0.1	0	--	240	175
10- 4-65				2.50	0.99	1.00	0.05		3.57	0.17	0.54	0.24					
				55	22	22	1		79	4	12	5				236	
	--	7.9	431	51	11	23	2	0	218	7	19	15	0.3	0	--	245	172
3-29-66				2.54	0.90	1.00	0.05		3.57	0.15	0.54	0.24					
				57	20	22	1		79	3	12	5				235	
2S/ 7W- 2Q 1 S	--	7.8	526	62	15	26	2	0	228	12	35	31	0.1	0	--	300	216
10- 4-65				3.09	1.23	1.13	0.05		3.74	0.25	0.99	0.50					
				56	22	21	1		68	5	18	9				295	
	--	7.7	592	72	15	26	2	0	234	8	40	50.0	0.3	0	--	350	241
3-29-66				3.59	1.23	1.13	0.05		3.84	0.17	1.13	0.81					
				60	21	19	1		65	3	19	14				328	
2S/ 7W- 3A 1 S	--	8.3	496	66	13	20	2	5	199	30	18	50	0.2	0	--	533	218
9-17-66				3.29	1.07	0.87	0.05	0.17	3.26	0.62	0.51	0.81					
				62	20	16	1	3	61	12	9	15				302	
2S/ 7W- 4B 1 S	--	8.1	352	43	10	18	2	0	192	17	9	9.5	0.2	0.01	--	232	149
8-16-66				2.15	0.82	0.78	0.05		3.15	0.35	0.25	0.15					
				57	22	21	1		81	9	6	4				203	
	--	7.6	358	38	13	17	1	0	188	16	9	10.0	0.3	0.01	--	203	149
2- 3-66				1.90	1.07	0.74	0.03		3.08	0.33	0.25	0.16					
				51	29	20	1		81	9	7	4				197	
2S/ 7W- 4B 2 S	--	7.6	354	38	13	18	2	0	188	15	9	8	0.3	0	--	240	149
10- 4-65				1.90	1.07	0.78	0.05		3.08	0.31	0.25	0.13					
				50	28	21	1		82	8	7	3				196	
	--	7.6	355	42	11	18	2	0	185	18	9	10.0	0.4	0	--	220	150
3-29-66				2.10	0.90	0.78	0.05		3.03	0.37	0.25	0.16					
				55	23	20	1		80	10	7	4				201	
2S/ 7W-10M 1 S	--	8.2	847	104	32	26	2	5	262	45	76	83	0.3	0.01	--	531	391
8-16-66				5.19	2.63	1.13	0.05	0.17	4.29	0.94	2.14	1.34					
				58	29	13	1	2	48	11	24	15				502	
2S/ 7W-10H 1 S	--	7.8	1057	135	37	32	2	0	336	66	74	130	0.3	0.04	--	700	489
10- 4-65				6.74	3.04	1.39	0.05		5.51	1.37	2.09	2.10					
				60	27	12			50	12	19	19				642	
	--	7.6	1060	139	34	33	3	0	329	71	77	140.0	0.4	0.16	--	680	487
3-29-66				6.94	2.80	1.43	0.08		5.39	1.48	2.17	2.26					
				62	25	13	1		48	13	19	20				659	
2S/ 7W-10L 4 S	--	7.8	1083	135	38	38	2	0	352	81	94	85	0.2	0.34	--	670	494
10- 4-65				6.74	3.13	1.65	0.05		5.77	1.69	2.65	1.37					
				58	27	14			50	15	23	12				647	
	--	7.4	1076	137	35	39	2	0	361	77	86	92.0	0.4	0.62	--	710	486
3-29-66				6.84	2.88	1.70	0.05		5.92	1.60	2.43	1.48					
				60	25	15			52	14	21	13				647	
2S/ 7W-10M 1 S	--	7.5	902	112	30	25	2	0	286	45	77	95.0	0.4	0.08	--	534	403
2- 3-66				5.59	2.47	1.09	0.05		4.69	0.94	2.17	1.53					
				61	27	12	1		50	10	23	16				527	
2S/ 7W-11D 1 S	--	8.0	803	104	23	27	2	0	255	64	61	75	0.3	0.04	--	499	354
8-16-66				5.19	1.89	1.17	0.05		4.18	1.33	1.72	1.21					
				63	23	14	1		50	16	20	14				482	
	--	7.5	840	112	26	29	2	0	270	65	67	83.0	0.4	0.08	--	532	387
2- 3-66				5.59	2.14	1.26	0.05		4.43	1.35	1.89	1.34					
				62	24	14	1		49	15	21	15				517	
2S/ 7W-15Q 1 S	--	8.1	637	83	24	24	2	0	306	23	31	43	0.3	0	--	406	306
8-17-66				4.14	1.97	1.04	0.05		5.02	0.48	0.87	0.69					
				58	27	14	1		71	7	12	10				381	
2S/ 7W-15K 1 S	--	7.3	820	85	28	24	2	--	--	34	45	16.0	--	0.37	--	705	327
10- 7-65				4.24	2.30	1.04	0.05			0.71	1.27	0.26					

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
SANTA ANA RIVER HYDRO UNIT Y0100																	
MIDDLE SANTA ANA RIV HYDR SUBUNITY0180 CHINO HYDRO SUBAREA Y01B1																	
2S/ 7W-15K 1 S	--	7.6	800	107	27	28	2	--	--	32	50	25	--	0.23	--	510	378
5-19-66				5.34	2.22	1.22	0.05			0.67	1.41	0.40					
2S/ 7W-15P 1 S	--	6.8	1203	133	34	48	2	--	--	44	80	11.8	--	0.43	--	797	472
10- 7-65				6.64	2.80	2.09	0.05			0.92	2.26	0.19					
	--	7.2	1040	124	32	46	3	--	--	38	72	20	--	0.24	--	698	441
5-19-66				6.19	2.63	2.00	0.08			0.79	2.03	0.32					
2S/ 7W-15Q 1 S	--	6.8	1770	172	61	70	3	--	--	53	120	6.8	--	0.52	--	1252	681
10- 7-65				8.58	5.02	3.04	0.08			1.10	3.38	0.11					
	--	7.7	700	87	23	24	2	0	294	31	33	55.0	0.3	0.01	--	402	312
2- 3-66				4.34	1.89	1.04	0.05		4.82	0.65	0.93	0.89					
				59	26	14	1		66	9	13	12				400	
	--	7.2	1575	204	53	66	3	--	--	46	120	9.6	--	0.47	--	956	728
5-19-66				10.18	4.36	2.87	0.08			0.96	3.38	0.15					
2S/ 7W-15Q 2 S	--	6.8	826	89	29	28	2	--	--	40	39	11.8	--	0.37	--	702	341
10- 7-65				4.44	2.38	1.22	0.05			0.83	1.10	0.19					
	--	7.8	765	102	18	24	2	--	--	28	36	15	--	0.22	--	584	329
5-19-66				5.09	1.48	1.04	0.05			0.58	1.02	0.24					
2S/ 7W-17L 1 S	--	8.3	458	59	13	19	2	5	211	19	17	31	0.3	0.02	--	260	201
8-16-66				2.94	1.07	0.83	0.05	0.17	3.46	0.40	0.48	0.50					
				60	22	17	1	3	69	8	10	10				269	
2S/ 7W-17D 1 S	--	7.9	756	99	24	21	2	0	289	54	28	85	0.3	0.09	--	454	346
2- 3-66				4.94	1.97	0.91	0.05		4.74	1.12	0.79	1.37					
				63	25	12	1		59	14	10	17				455	
	--	7.7	819	107	29	24	2	0	297	60	36	107	0.3	0.01	--	524	386
8-16-66				5.34	2.38	1.04	0.05		4.87	1.25	1.02	1.73					
				61	27	12	1		55	14	11	20				511	
	--	7.9	756	99	24	21	2	0	289	54	28	85.0	0.3	0.09	--	454	346
2- 3-66				4.94	1.97	0.91	0.05		4.74	1.12	0.79	1.37					
				63	25	12	1		59	14	10	17				455	
2S/ 7W-17L 1 S	--	8.0	598	78	16	22	2	0	247	28	22	55.0	0.3	0.04	--	388	261
2- 3-66				3.89	1.32	0.96	0.05		4.05	0.58	0.62	0.89					
				63	21	15	1		66	9	10	14				345	
2S/ 7W-21L 1 S	--	8.3	566	73	16	26	2	5	253	30	23	39	0.2	0	--	599	248
9-17-66				3.64	1.32	1.13	0.05	0.17	4.15	0.62	0.65	0.63					
				59	21	18	1	3	67	10	10	10				339	
	--	8.0	436	49	10	30	2	0	209	22	12	21.0	0.3	0	--	275	164
2- 3-66				2.45	0.82	1.30	0.05		3.43	0.46	0.34	0.34					
				53	18	28	1		75	10	7	7				249	
2S/ 7W-22K 1 S	--	8.0	332	42	9	17	2	0	201	8	8	5.0	0.2	0	--	212	142
9-17-66				2.10	0.74	0.74	0.05		3.29	0.17	0.23	0.08					
				58	20	20	1		87	5	6	2				190	
2S/ 7W-23E 1 S	--	8.2	781	102	26	27	2	5	329	46	41	38	0.3	0	--	671	362
9-16-66				5.09	2.14	1.17	0.05	0.17	5.39	0.96	1.16	0.61					
				60	25	14	1	2	65	12	14	7				449	
	--	7.9	622	79	20	24	2	0	281	30	27	41.0	0.3	0	--	395	279
2- 3-66				3.94	1.64	1.04	0.05		4.61	0.62	0.76	0.66					
				59	25	16	1		69	9	11	10				361	
2S/ 7W-27A 1 S	--	7.8	1057	131	40	53	3	0	498	53	67	57	0.3	0	--	710	492
8-17-66				6.54	3.29	2.30	0.08		8.16	1.10	1.89	0.92					
				54	27	19	1		68	9	16	8				649	
	--	7.9	949	110	30	56	2	0	466	44	43	40.0	0.3	0.04	--	558	398
2- 3-66				5.49	2.47	2.43	0.05		7.64	0.92	1.21	0.65					
				53	24	23			73	9	12	6				554	
2S/ 7W-31B 1 S	--	7.9	973	117	23	62	3	0	368	119	59	12	0.3	0.02	--	645	387
9-16-66				5.84	1.89	2.70	0.08		6.03	2.48	1.66	0.19					
				56	18	26	1		58	24	16	2				576	
2S/ 7W-31E 1 S	--	7.7	1104	131	21	103	2	0	500	96	65	31	0.3	0.26	--	726	414
8-16-66				6.54	1.73	4.48	0.05		8.20	2.00	1.83	0.50					
				51	14	35			65	16	15	4				695	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
MIDDLE SANTA ANA RIV HYDR SUBUNITY01B0 — SANTA ANA RIVER HYDRO UNIT Y0100																	
CHINO HYDRO SUBAREA Y01B1																	
2S/ 7W-31B 1 S	--	8.2	364	28	8	36	2	0	162	29	10	7.5	0.4	0.05	--	223	103
2- 4-66				1.40	0.66	1.57	0.05		2.66	0.60	0.28	0.12					
				38	18	43	1		73	16	8	3				201	
2S/ 7W-32K 3 S	--	7.8	334	8	2	54	1	0	108	32	31	0.3	1.0	0.35	--	204	28
9-17-66				0.40	0.16	2.35	0.03		1.77	0.67	0.87						
				14	5	80	1		53	20	26					183	
2S/ 7W-32F 1 S	--	8.3	577	62	10	53	3	0	238	54	29	21	0.3	0	--	337	196
8-17-66				3.09	0.82	2.30	0.08		3.90	1.12	0.82	0.34					
				49	13	37	1		63	18	13	6				349	
	--	8.4	578	57	11	49	2	2	204	82	21	15.0	0.3	0.03	--	372	187
2- 4-66				2.84	0.90	2.13	0.05	0.07	3.34	1.71	0.59	0.24					
				48	15	36	1	1	56	29	10	4				340	
2S/ 7W-32K 3 S	--	8.1	332	17	3	50	1	0	154	19	11	0.4	0.8	0.38	--	209	55
2- 4-66				0.85	0.25	2.17	0.03		2.52	0.40	0.31	0.01					
				26	8	66	1		78	12	10					178	
2S/ 7W-34K 2 S	--	8.2	1610	206	56	82	3	0	390	437	103	26.2	0.5	0.03	--	1215	745
2- 4-66				10.28	4.61	3.57	0.08		6.39	9.10	2.90	0.42					
				55	25	19			34	48	15	2				1105	
2S/ 8W-14B 1 S	--	8.1	390	52	11	16	2	0	192	21	13	16	0.3	0	--	231	175
8-16-66				2.59	0.90	0.70	0.05		3.15	0.44	0.37	0.26					
				61	21	17	1		75	10	9	6				226	
2S/ 8W-14H 1 S	--	7.9	344	47	0	15	2	0	171	25	91	10.1	0.3	0	--	222	118
8-16-66				2.35		0.65	0.05		2.80	0.52	2.57	0.16					
				77		21	2		46	9	42	3				274	
2S/ 8W-14B 1 S	--	8.1	393	51	10	16	2	0	193	22	10	13.5	0.3	0	--	239	168
2- 3-66				2.54	0.82	0.70	0.05		3.16	0.46	0.28	0.22					
				62	20	17	1		77	11	7	5				220	
2S/ 8W-14H 1 S	--	8.1	348	43	11	15	2	0	172	24	8	10	0.2	0.01	--	205	153
10- 4-65				2.15	0.90	0.65	0.05		2.82	0.50	0.23	0.16					
				57	24	17	1		76	13	6	4				198	
	--	8.1	382	48	10	16	1	0	183	26	9	14.0	0.3	0.01	--	242	161
2- 3-66				2.40	0.82	0.70	0.03		3.00	0.54	0.25	0.23					
				61	21	18	1		75	13	6	6				214	
	--	7.9	363	46	10	15	2	0	176	24	10	12	0.3	0	--	220	156
3-30-66				2.30	0.82	0.65	0.05		2.88	0.50	0.28	0.19					
				60	21	17	1		75	13	7	5				206	
2S/ 8W-22B 1 S	--	8.1	409	55	9	19	2	0	189	38	12	10.5	0.2	0	--	238	174
8-16-66				2.74	0.74	0.83	0.05		3.10	0.79	0.34	0.17					
				63	17	19	1		70	18	8	4				239	
2S/ 8W-22B 1 S	--	8.1	390	45	9	21	1	0	178	34	10	8.5	0.3	0.01	--	250	150
2- 3-66				2.25	0.74	0.91	0.03		2.92	0.71	0.28	0.14					
				57	19	23	1		72	18	7	3				216	
2S/ 8W-23C 4 S	--	7.5	717	91	23	30	3	0	315	59	33	29	0.3	0.02	--	500	322
10- 4-65				4.54	1.89	1.30	0.08		5.16	1.23	0.93	0.47					
				58	24	17	1		66	16	12	6				423	
	--	7.5	657	86	18	26	3	0	259	59	32	34	0.3	0.04	--	425	289
3-30-66				4.29	1.48	1.13	0.08		4.25	1.23	0.90	0.55					
				61	21	16	1		61	18	13	8				386	
2S/ 8W-23K 1 S	--	7.9	376	46	10	19	2	0	190	27	10	3	0.3	0.02	--	230	156
10- 4-65				2.30	0.82	0.83	0.05		3.11	0.56	0.28	0.05					
				58	21	21	1		78	14	7	1				211	
2S/ 8W-25L 1 S	--	7.9	719	98	18	30	3	0	228	126	27	42	0.3	0.03	--	469	319
8-16-66				4.89	1.48	1.30	0.08		3.74	2.62	0.76	0.68					
				63	19	17	1		48	34	10	9				456	
2S/ 8W-25M 1 S	--	8.0	527	71	12	24	2	0	223	41	34	9.8	0.3	0.02	--	333	227
8-16-66				3.54	0.99	1.04	0.05		3.65	0.85	0.96	0.16					
				63	18	19	1		65	15	17	3				304	
2S/ 8W-25L 1 S	--	7.8	570	74	14	28	2	0	242	48	34	10	0.3	0	--	380	242
10- 4-65				3.69	1.15	1.22	0.05		3.97	1.00	0.96	0.16					
				60	19	20	1		65	16	16	3				329	
	--	8.0	820	116	18	34	3	0	237	186	22	30.0	0.3	0.03	--	579	364
2- 3-66				5.79	1.48	1.48	0.08		3.88	3.87	0.62	0.48					
				66	17	17	1		44	44	7	5				526	
	--	7.5	665	89	16	30	2	0	271	64	42	14	0.3	0.04	--	450	288
3-30-66				4.44	1.32	1.30	0.05		4.44	1.33	1.18	0.23					
				62	19	18	1		62	19	16	3				391	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
SANTA ANA RIVER HYDRO UNIT Y0100																	
MIDDLE SANTA ANA RIV HYDR SUBUNITY01B0																	
CHINO HYDRO SUBAREA Y01B1																	
2S/ 8W-25M 1 S	--	7.9	485	63	12	19	2	0	193	49	31	5	0.3	0	--	340	207
10- 4-65				3.14	0.99	0.83	0.05		3.16	1.02	0.87	0.08					
				63	20	17	1		62	20	17	2				276	
	--	8.0	519	69	10	34	2	0	222	42	36	8.0	0.3	0.01	--	332	213
2- 3-66				3.44	0.82	1.48	0.05		3.64	0.87	1.02	0.13					
				59	14	26	1		64	15	18	2				310	
	--	7.7	495	66	10	22	2	0	215	40	27	8	0.3	0.02	--	310	206
3-30-66				3.29	0.82	0.96	0.05		3.52	0.83	0.76	0.13					
				64	16	19	1		67	16	15	2				281	
2S/ 8W-26C 2 S	--	7.8	816	113	23	33	3	0	280	148	34	22	0.4	0	--	630	377
10- 4-65				5.64	1.89	1.43	0.08		4.59	3.08	0.96	0.35					
				62	21	16	1		51	34	11	4				514	
	--	7.5	591	76	15	30	2	0	229	92	21	12	0.3	0.02	--	370	251
3-30-66				3.79	1.23	1.30	0.05		3.75	1.92	0.59	0.19					
				59	19	20	1		58	30	9	3				361	
3S/ 7W- 4D 1 S	--	8.3	475	38	7	51	2	2	189	36	21	15.5	0.5	0.10	--	287	124
2- 4-66				1.90	0.58	2.22	0.05	0.07	3.10	0.75	0.59	0.25					
				40	12	47	1	1	65	16	12	5				266	
	--	7.8	532	53	6	55	2	0	226	41	27	19	0.4	0.15	--	335	157
8-17-66				2.64	0.49	2.39	0.05		3.70	0.85	0.76	0.31					
				47	9	43	1		66	15	14	6				315	
3S/ 7W- 4H 1 S	--	7.7	1048	123	32	64	3	0	405	89	87	52	0.3	0.01	--	704	439
9-16-66				6.14	2.63	2.78	0.08		6.64	1.85	2.45	0.84					
				53	23	24	1		56	16	21	7				649	
3S/ 7W- 4A 1 S	--	7.9	836	106	24	42	2	0	331	103	41	18	0.5	0.02	--	577	363
3- 8-66				5.29	1.97	1.83	0.05		5.43	2.14	1.16	0.29					
				58	22	20	1		60	24	13	3				499	
3S/ 7W- 4D 1 S	--	8.3	475	38	7	51	2	2	189	36	21	15.5	0.5	0.10	--	287	124
2- 4-66				1.90	0.58	2.22	0.05	0.07	3.10	0.75	0.59	0.25					
				40	12	47	1	1	65	16	12	5				266	
3S/ 7W- 4G 1 S	--	7.7	692	74	15	56	2	0	310	58	30	21	0.4	0.06	--	440	246
10- 4-65				3.69	1.23	2.43	0.05		5.08	1.21	0.85	0.34					
				50	17	33	1		68	16	11	5				409	
	--	7.5	808	94	20	55	2	0	346	68	41	26.0	0.3	0.04	--	500	317
3-30-66				4.69	1.64	2.39	0.05		5.67	1.42	1.16	0.42					
				53	19	27	1		65	16	13	5				476	
3S/ 7W- 4H 1 S	--	8.2	951	115	27	57	3	0	387	78	67	27.5	0.3	0.06	--	606	398
2- 4-66				5.74	2.22	2.48	0.08		6.34	1.62	1.89	0.44					
				55	21	24	1		62	16	18	4				565	
3S/ 7W- 9A 1 S	--	7.4	890	109	24	51	2	0	388	56	42	58	0.3	0.02	--	590	371
10- 4-65				5.44	1.97	2.22	0.05		6.36	1.17	1.18	0.94					
				56	20	23	1		66	12	12	10				533	
	--	7.6	762	84	23	54	2	0	366	61	42	0.0	0.3	0.04	--	455	304
3-30-66				4.19	1.89	2.35	0.05		6.00	1.27	1.18						
				49	22	28	1		71	15	14					446	
3S/ 7W-10C 1 S	--	7.9	527	65	14	29	2	0	258	34	24	12	0.2	0	--	310	220
9-16-66				3.24	1.15	1.26	0.05		4.23	0.71	0.68	0.19					
				57	20	22	1		73	12	12	3				307	
	--	7.7	547	63	16	32	2	0	261	31	25	14	0.3	0	--	350	223
10- 4-65				3.14	1.32	1.39	0.05		4.28	0.65	0.71	0.23					
				53	22	24	1		73	11	12	4				312	
	--	8.3	551	67	14	30	2	5	243	31	29	11.5	0.3	0.01	--	334	225
2- 4-66				3.34	1.15	1.30	0.05	0.17	3.98	0.65	0.82	0.19					
				57	20	22	1	3	69	11	14	3				309	
	--	7.6	577	68	14	34	2	0	262	35	28	13.0	0.2	0.01	--	323	227
3-30-66				3.39	1.15	1.48	0.05		4.29	0.73	0.79	0.21					
				56	19	24	1		71	12	13	3				323	
3S/ 7W-15Q 3 S	--	7.5	2994	277	82	261	6	--	572	294	548	54.3	0.7	0.80	--	2100	1029
3-31-66				13.82	6.74	11.35	0.15		9.38	6.12	15.45	0.88					
				43	21	35			29	19	49	3				1805	
6S/10W- 6R 2 S	--	8.1	522	59	11	35	2	0	218	51	25	1.0	0.5	0.05	--	302	192
1-27-66				2.94	0.90	1.52	0.05		3.57	1.06	0.71	0.02					
				54	17	28	1		67	20	13					292	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
SANTA ANA RIVER HYDRO UNIT Y0100																	
MIDDLE SANTA ANA RIV HYDR SUBUNITY01B0																	
CHINO HYDRO SUBAREA Y01B1																	
1N/ 6W-25K 1 S	--	8.0	290	39	9	8	2	0	149	21	4	4.8	0.5	0	--	165	135
1- 7-66				1.95	0.74	0.35	0.05		2.44	0.44	0.11	0.08					
				63	24	11	2		79	14	4	3				162	
	--	8.0	310	43	84	9	3	0	152	26	7	1.8	0.4	0.02	--	189	453
7-15-66				2.15	6.91	0.39	0.08		2.49	0.54	0.20	0.03					
				23	73	4	1		76	17	6	1				249	
1N/ 7W-27Q 1 S	--	8.0	378	36	12	28	2	0	179	32	6	10.6	0.4	0.02	--	237	140
3- 7-66				1.80	0.99	1.22	0.05		2.93	0.67	0.17	0.17					
				44	24	30	1		74	17	4	4				215	
	--	7.9	405	39	14	27	2	0	184	35	7	17	0.3	0.02	--	290	155
7-19-66				1.95	1.15	1.17	0.05		3.02	0.73	0.20	0.27					
				45	27	27	1		72	17	5	6				232	
1N/ 8W-35J 1 S	67	8.3	379	47	8	18	2	7	142	30	10	21.0	0.3	0.03	--	283	151
10-22-65				2.35	0.66	0.78	0.05	0.23	2.33	0.62	0.28	0.34					
				61	17	20	1	6	61	16	7	9				213	
HARRISON HYDRO SUBAREA Y01B2																	
1S/ 8W- 4L 1 S	77	8.2	571	53	8	44	2	--	170	53	13	53	0.4	0.10	13	322	165
7-11-66				2.64	0.66	1.91	0.05		2.79	1.10	0.37	0.85					
				50	13	36	1		55	22	7	17				323	
1S/ 8W- 8H 1 S	77	8.2	625	72	8	51	2	--	190	69	17	89	0.2	0.03	12	414	213
7-11-66				3.59	0.66	2.22	0.05		3.11	1.44	0.48	1.44					
				55	10	34	1		48	22	7	22				414	
1S/ 8W-17K 2 S	73	8.3	488	49	5	49	2	8	129	89	11	38	0.3	0.03	12	323	143
7-11-66				2.45	0.41	2.13	0.05	0.27	2.11	1.85	0.31	0.61					
				49	8	42	1	5	41	36	6	12				327	
1S/ 8W-17P 4 S	79	7.9	345	6	1	69	1	--	107	54	6	20	0.3	0.03	8	218	19
7-11-66				0.30	0.08	3.00	0.03		1.75	1.12	0.17	0.32					
				9	2	88	1		52	33	5	10				218	
1S/ 8W-18J 2 S	77	8.5	350	45	8	16	2	5	163	28	4	7	0.4	0.03	8	202	146
7-11-66				2.25	0.66	0.70	0.05	0.17	2.67	0.58	0.11	0.11					
				61	18	19	1	5	73	16	3	3				204	
1S/ 8W-26H 1 S	75	7.9	838	109	23	34	2	--	265	146	28	40	0.3	0.03	17	530	367
7-11-66				5.44	1.89	1.48	0.05		4.34	3.04	0.79	0.65					
				61	21	17	1		49	34	9	7				530	
1S/ 8W-28F 1 S	77	8.1	500	68	11	13	2	--	193	48	10	30	0.4	0.03	16	294	215
7-11-66				3.39	0.90	0.57	0.05		3.16	1.00	0.28	0.48					
				69	18	12	1		64	20	6	10				293	
1S/ 8W-28G 2 S	75	8.1	464	60	11	15	2	--	184	28	10	42	0.1	0.03	15	274	195
7-11-66				2.99	0.90	0.65	0.05		3.02	0.58	0.28	0.68					
				65	20	14	1		66	13	6	15				274	
HARRISON HYDRO SUBAREA Y01B2																	
1S/ 8W-28L 1 S	77	8.2	378	48	8	19	2	--	182	23	6	11	0.3	0.03	14	221	153
7-11-66				2.40	0.66	0.83	0.05		2.98	0.48	0.17	0.18					
				61	17	21	1		78	13	4	5				221	
1S/ 8W-28M 3 S	77	8.0	452	59	11	14	2	--	183	40	10	22	0.3	0	16	264	192
7-11-66				2.94	0.90	0.61	0.05		3.00	0.83	0.28	0.35					
				65	20	14	1		67	19	6	8				264	
1S/ 8W-28N 2 S	77	8.2	383	49	9	16	2	--	187	25	6	12	0.2	0	15	226	160
7-11-66				2.45	0.74	0.70	0.05		3.06	0.52	0.17	0.19					
				62	19	18	1		78	13	4	5				226	
1S/ 8W-30K 1 S	77	7.8	649	91	16	19	2	--	241	74	21	37	0.4	0.03	17	397	293
7-11-66				4.54	1.32	0.83	0.05		3.95	1.54	0.59	0.60					
				67	20	12	1		59	23	9	9				396	
1S/ 8W-31J 1 S	77	8.1	465	59	11	22	2	--	206	40	15	17	0.6	0	18	285	192
7-11-66				2.94	0.90	0.96	0.05		3.38	0.83	0.42	0.27					
				61	19	20	1		69	17	9	6				286	
1S/ 8W-32G 1 S	77	8.3	397	50	9	18	2	--	186	25	7	16	0.3	0.03	16	235	162
7-11-66				2.50	0.74	0.78	0.05		3.05	0.52	0.20	0.26					
				61	18	19	1		76	13	5	6				235	
1S/ 8W-33D 1 S	77	8.1	432	55	10	16	2	--	185	33	9	21	0.3	0	18	255	178
7-11-66				2.74	0.82	0.70	0.05		3.03	0.69	0.25	0.34					
				64	19	16	1		70	16	6	8				255	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
SANTA ANA RIVER HYDRO UNIT Y0100																	
MIDDLE SANTA ANA RIV HYDR SUBUNITY01B0																	
CLAREMONT HEIGHT HYDRO SUBAREA Y01B3																	
1N/ 8W-24L 1 S	--	7.7	350	49	11	8	2	0	183	24	10	6.7	0.4	0.03	--	205	168
1- 7-66				2.45	0.90	0.35	0.05		3.00	0.50	0.28	0.11					
				65	24	9	1		77	13	7	3				201	
	--	7.8	361	55	12	8	2	0	196	28	5	4.8	0.4	0.05	--	257	187
7-19-66				2.74	0.99	0.35	0.05		3.21	0.58	0.14	0.08					
				66	24	8	1		80	14	3	2				212	
1N/ 8W-34L 1 S	78	8.2	485	61	11	17	2	2	143	39	13	69	0.5	0.12	--	285	19
10-22-65				3.04	0.90	0.74	0.05	0.07	2.34	0.81	0.37	1.11					
				64	19	16	1	1	50	17	8	24				285	
1N/ 8W-34N 1 S	67	8.3	475	61	11	17	2	5	138	44	12	65	0.5	0.12	--	292	197
10-22-65				3.04	0.90	0.74	0.05	0.17	2.26	0.92	0.34	1.05					
				64	19	16	1	4	48	19	7	22				285	
1N/ 8W-35J 1 S	--	7.9	419	58	14	9	2	0	192	31	6	28	0.4	0.03	--	302	202
7-19-66				2.89	1.15	0.39	0.05		3.15	0.65	0.17	0.45					
				65	26	9	1		71	15	4	10				243	
CUCAMONGA HYDRO SUBAREA Y01B4																	
1S/ 7W- 4B 2 S	--	8.1	313	32	11	17	2	0	149	19	5	11.6	0.5	0.02	--	178	125
3- 7-66				1.60	0.90	0.74	0.05		2.44	0.40	0.14	0.19					
				49	27	22	2		77	13	4	6				171	
	--	8.0	288	34	12	17	2	0	154	18	10	14	0.4	0.04	--	206	135
7-19-66				1.70	0.99	0.74	0.05		2.52	0.37	0.28	0.23					
				49	28	21	1		74	11	8	7				183	
1N/ 7W-29F 1 S	--	8.1	320	49	9	6	2	0	167	26	3	2.1	0.4	0.02	--	163	160
3- 7-66				2.45	0.74	0.26	0.05		2.74	0.54	0.08	0.03					
				70	21	7	1		81	16	2	1				180	
1N/ 7W-33A 1 S	--	7.7	425	42	15	21	2	0	137	34	11	61	0.4	0.01	--	309	167
7-19-66				2.10	1.23	0.91	0.05		2.25	0.71	0.31	0.98					
				49	29	21	1		53	17	7	23				254	
1N/ 7W-34H 1 S	--	7.9	388	42	9	30	2	0	186	32	7	16	0.4	0.05	--	259	142
1- 7-66				2.10	0.74	1.30	0.05		3.05	0.67	0.20	0.26					
				50	18	31	1		73	16	5	6				230	
	--	8.4	418	45	15	23	2	2	181	31	11	31	0.4	0.02	--	298	174
7-19-66				2.25	1.23	1.00	0.05	0.07	2.97	0.65	0.31	0.50					
				50	27	22	1	2	66	14	7	11				249	
TEMESCAL HYDRO SUBAREA Y01B5																	
3S/ 6W-28L 1 S	--	7.5	1398	129	34	122	5	--	398	141	122	105.0	0.8	0.24	--	930	462
3-31-66				6.44	2.80	5.30	0.13		6.52	2.94	3.44	1.69					
				44	19	36	1		45	20	24	12				855	
3S/ 6W-28M99 S	--	7.6	1541	138	32	150	5	--	423	159	149	102.5	0.9	0.28	--	1003	476
3-31-66				6.89	2.63	6.52	0.13		6.93	3.31	4.20	1.65					
				43	16	40	1		43	21	26	10				945	
TEMESCAL HYDRO SUBAREA Y01B5																	
3S/ 6W-30F 2 S	--	7.3	1573	125	38	147	4	--	326	150	238	42.5	0.8	0.24	--	972	469
3-31-66				6.24	3.13	6.39	0.10		5.34	3.12	6.71	0.69					
				39	20	40	1		34	20	42	4				906	
3S/ 7W-21N 1 S	--	7.9	1086	118	49	55	1	0	305	260	52	32	0.5	0.12	--	750	496
3-29-66				5.89	4.03	2.39	0.03		5.00	5.41	1.47	0.52					
				48	33	19			40	44	12	4				718	
3S/ 7W-22A 4 S	--	7.0	1883	165	36	183	16	--	454	180	277	21.5	0.6	0.66	--	1206	560
3-31-66				8.23	2.96	7.96	0.41		7.44	3.75	7.81	0.35					
				42	15	41	2		38	19	40	2				1103	
3S/ 7W-22J 4 S	--	7.5	1637	163	41	130	4	0	422	166	216	55	0.6	0.36	--	1050	575
3-29-66				8.13	3.37	5.65	0.10		6.92	3.46	6.09	0.89					
				47	20	33	1		40	20	35	5				983	
3S/ 7W-22L 1 S	--	7.8	1004	104	26	66	3	0	237	120	99	68	0.6	0.20	--	630	367
3-29-66				5.19	2.14	2.87	0.08		3.88	2.50	2.79	1.10					
				50	21	28	1		38	24	27	11				603	
3S/ 7W-23J 4 S	--	7.5	1992	177	44	184	8	--	474	185	305	27.7	0.6	0.68	--	1240	623
3-31-66				8.83	3.62	8.00	0.20		7.77	3.85	8.60	0.45					
				43	18	39	1		38	19	42	2				1165	
3S/ 7W-23M 2 S	--	7.3	1736	160	39	160	5	0	439	184	242	36	0.5	0.84	--	1090	560
3-29-66				7.98	3.21	6.96	0.13		7.20	3.83	6.82	0.58					
				44	18	38	1		39	21	37	3				1043	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARD-NESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
SANTA ANA RIVER HYDRO UNIT Y0100																	
MIDDLE SANTA ANA RIV HYDR SUBUNITY01B0																	
TEMESCAL HYDRO SUBAREA Y01B5																	
3S/ 7W-25A 3 S	--	6.9	1851	160	46	175	6	--	461	187	250	49.0	0.6	3.05	--	1216	588
3-31-66				7.98	3.78	7.61	0.15		7.56	3.89	7.05	0.79					
				41	19	39	1		39	20	37	4				1103	
	--	7.0	1844	162	47	--	--	0	461	--	255	--	--	2.30	--		598
6- 6-66				8.08	3.87				7.56		7.19						
3S/ 7W-28B 1 S	--	7.7	982	108	40	44	2	0	256	189	63	36	0.5	0.10	--	680	434
3-29-66				5.39	3.29	1.91	0.05		4.20	3.93	1.78	0.58					
				51	31	18			40	37	17	6				608	
ARLINGTON HYDRO SUBAREA Y01B6																	
3S/ 5W-23R 1 S	74	7.7	895	71	26	63	3	0	157	72	121	56	0.6	0.17	--	519	284
3-22-66				3.54	2.14	2.74	0.08		2.57	1.50	3.41	0.90					
				42	25	32	1		31	18	41	11				490	
3S/ 5W-24R 1 S	76	7.2	1913	157	71	105	5	0	195	178	392	37	0.6	0.14	--	1424	684
3-22-66				7.83	5.84	4.57	0.13		3.20	3.71	11.05	0.60					
				43	32	25	1		17	20	60	3				1042	
3S/ 5W-25R 1 S	70	7.0	1276	116	55	65	5	0	246	197	128	84	0.5	0.26	--	825	516
3-22-66				5.79	4.52	2.83	0.13		4.03	4.10	3.61	1.35					
				44	34	21	1		31	31	28	10				772	
RIVERSIDE HYDRO SUBAREA Y01B7																	
1S/ 4W-21R 7 S	68	8.1	549	38	12	68	3	0	276	22	27	0.6	1.1	0.34	--	320	145
9-16-66				1.90	0.99	2.96	0.08		4.52	0.46	0.76	0.01					
				32	17	50	1		79	8	13					308	
1S/ 4W-28L 2 S	68	7.9	646	44	12	71	4	0	187	67	54	28	0.7	0.10	--	385	160
11- 2-65				2.20	0.99	3.09	0.10		3.06	1.39	1.52	0.45					
				34	16	48	2		48	22	24	7				373	
	68	7.8	740	67	13	74	3	0	260	73	51	26	0.8	0.14	--	464	221
5-20-66				3.34	1.07	3.22	0.08		4.26	1.52	1.44	0.42					
				43	14	42	1		56	20	19	5				436	
1S/ 4W-28L 3 S	--	7.7	697	63	11	71	3	0	240	64	51	26	1.0	0.13	--	435	202
3- 4-66				3.14	0.90	3.09	0.08		3.93	1.33	1.44	0.42					
				44	12	43	1		55	19	20	6				408	
1S/ 4W-28N 5 S	--	7.8	764	81	16	57	4	0	267	77	60	23	0.7	0.26	--	502	268
5-20-66				4.04	1.32	2.48	0.10		4.38	1.60	1.69	0.37					
				51	17	31	1		54	20	21	5				450	
1S/ 4W-28R 1 S	--	7.5	641	--	--	--	--	--	--	33	53	--	--	--	--	385	
1-31-66										0.69	1.49						
1S/ 4W-29H 1 S	--	7.0	683	56	6	74	9	0	216	53	51	45	0.5	0.35	--	410	164
11-24-65				2.79	0.49	3.22	0.23		3.54	1.10	1.44	0.73					
				41	7	48	3		52	16	21	11				401	
	--	7.2	796	--	--	--	--	--	--	64	66	--	--	--	--	480	
1-28-66										1.33	1.86						
1S/ 4W-29H 1 S	--	7.2	788	67	11	84	6	0	249	62	71	39	0.6	0.38	--	460	212
4-13-66				3.34	0.90	3.65	0.15		4.08	1.29	2.00	0.63					
				42	11	45	2		51	16	25	8				463	
1S/ 4W-29Q 3 S	--	7.3	683	62	12	68	4	0	242	62	43	38	0.5	0.35	--	410	204
4-13-66				3.09	0.99	2.96	0.10		3.97	1.29	1.21	0.61					
				43	14	41	1		56	18	17	9				409	
1S/ 4W-30D 6 S	--	7.7	484	65	12	18	3	0	193	44	10	43	0.4	0.04	--	320	212
4- 1-66				3.24	0.99	0.78	0.08		3.16	0.92	0.28	0.69					
				64	19	15	2		63	18	6	14				290	
1S/ 4W-30L 4 S	--	7.3	1234	156	22	78	5	--	425	101	95	79.3	0.3	0.34	--	808	480
4- 1-66				7.78	1.81	3.39	0.13		6.97	2.10	2.68	1.28					
				59	14	26	1		53	16	21	10				746	
1S/ 4W-31D 1 S	--	7.0	878	82	18	76	11	0	329	72	80	3.4	0.8	0.44	--	530	279
9-14-66				4.09	1.48	3.30	0.28		5.39	1.50	2.26	0.05					
				45	16	36	3		59	16	25	1				505	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	FCX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
SANTA ANA RIVER HYDRO UNIT Y0100																	
MIDDLE SANTA ANA RIV HYDR SUBUNITY01B0 RIVERSIDE HYDRO SUBAREA Y01B7																	
1S/ 4W-31A 2 S	--	8.4	986	90	16	99	5	5	300	73	89	63	--	0.46	--	621	291
11- 1-65				4.49	1.32	4.30	0.13	0.17	4.92	1.52	2.51	1.02					
				44	13	42	1	2	49	15	25	10				588	
	--	6.8	962	--	--	--	--	--	--	73	81	--	--	--	--	600	
1-31-66										1.52	2.28						
	--	8.1	429	62	11	11	3	--	206	38	6	13.0	0.3	0	--	280	200
4- 1-66				3.09	0.90	0.48	0.08		3.38	0.79	0.17	0.21					
				68	20	11	2		74	17	4	5				246	
	70	7.7	789	68	12	80	5	--	264	63	64	33.0	0.5	0.35	--	488	219
5-19-66				3.39	0.99	3.48	0.13		4.33	1.31	1.80	0.53					
				42	12	44	2		54	16	23	7				456	
1S/ 4W-31D 1 S	67	8.4	876	59	17	101	10	8	258	71	89	21	0.8	0.54	--	536	217
11- 1-65				2.94	1.40	4.39	0.26	0.27	4.23	1.48	2.51	0.34					
				33	16	49	3	3	48	17	28	4				504	
	--	7.2	768	54	15	86	9	--	288	60	53	15.5	1.2	0.37	--	478	196
4- 1-66				2.69	1.23	3.74	0.23		4.72	1.25	1.49	0.25					
				34	16	47	3		61	16	19	3				436	
	--	7.1	781	64	15	80	10	--	294	65	53	20.2	0.8	0.30	--	480	221
5-19-66				3.19	1.23	3.48	0.26		4.82	1.35	1.49	0.33					
				39	15	43	3		60	17	19	4				453	
1S/ 4W-32B 2 S	--	7.4	697	74	13	56	4	0	261	62	42	31	0.6	0.25	--	390	238
4- 6-66				3.69	1.07	2.43	0.10		4.28	1.29	1.18	0.50					
				51	15	33	1		59	18	16	7				411	
1S/ 4W-32E11 S	--	7.9	663	67	17	42	4	0	184	71	63	27	0.5	0.14	--	420	237
11- 3-65				3.34	1.40	1.83	0.10		3.02	1.48	1.78	0.44					
				50	21	27	1		45	22	26	7				382	
1S/ 4W-32E12 S	67	7.8	684	54	10	72	6	--	210	62	51	36	0.6	0.30	--	440	176
5- 9-66				2.69	0.82	3.13	0.15		3.44	1.29	1.44	0.58					
				40	12	46	2		51	19	21	9				395	
	67	7.8	679	57	10	72	6	0	215	61	51	36	0.6	0.32	--	440	183
5- 9-66				2.84	0.82	3.13	0.15		3.52	1.27	1.44	0.58					
				41	12	45	2		52	19	21	9				400	
	68	7.6	671	57	9	72	6	0	212	61	51	35	0.6	0.32	--	440	179
5- 9-66				2.84	0.74	3.13	0.15		3.47	1.27	1.44	0.56					
				41	11	46	2		51	19	21	8				396	
1S/ 5W-24R 1 S	--	7.7	425	57	10	16	2	0	193	30	9	26	0.3	0	--	280	183
4- 1-66				2.84	0.82	0.70	0.05		3.16	0.62	0.25	0.42					
				64	19	16	1		71	14	6	9				245	
1S/ 5W-25F 1 S	--	7.7	428	64	8	15	2	0	200	30	6	25	0.2	0	--	260	193
4- 1-66				3.19	0.66	0.65	0.05		3.28	0.62	0.17	0.40					
				70	15	14	1		73	14	4	9				249	
1S/ 5W-25L 2 S	--	8.1	464	57	10	26	3	0	207	32	13	29	0.3	0.07	--	283	183
11- 1-65				2.84	0.82	1.13	0.08		3.39	0.67	0.37	0.47					
				58	17	23	2		69	14	8	10				272	
1S/ 5W-25L 2 S	--	7.1	501	--	--	--	--	--	--	30	15	--	--	--	--	290	
2- 1-66										0.62	0.42						
	70	7.5	496	59	10	30	4	--	216	31	16	30.0	0.3	0.11	--	308	188
5-19-66				2.94	0.82	1.30	0.10		3.54	0.65	0.45	0.48					
				57	16	25	2		69	13	9	9				287	
1S/ 5W-25R 1 S	66	8.0	1267	96	13	116	59	0	246	163	139	52	0.7	0.22	--	780	293
11- 1-65				4.79	1.07	5.04	1.51		4.03	3.39	3.92	0.84					
				39	9	41	12		33	28	32	7				760	
	--	7.1	1044	--	--	--	--	--	--	107	84	--	--	--	--	620	
2- 1-66										2.23	2.37						
	--	7.3	1255	106	15	107	59	--	320	162	99	70.0	0.6	0.32	--	811	326
4- 1-66				5.29	1.23	4.65	1.51		5.24	3.37	2.79	1.13					
				42	10	37	12		42	27	22	9				776	
	68	7.0	1287	110	16	114	60	--	303	189	109	66.4	0.6	0.29	--	834	341
5-19-66				5.49	1.32	4.96	1.53		4.97	3.93	3.07	1.07					
				41	10	37	12		38	30	24	8				814	

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SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
MIDDLE SANTA ANA RIV HYDR SUBUNITY01B0 RIVERSIDE HYDRO SUBAREA Y01B7								SANTA ANA RIVER HYDRO UNIT Y0100									
1S/ 5W-25R 4 S	66	8.1	1007	101	15	79	21	0	271	108	91	59	0.4	0.20	--	640	314
11- 1-65				5.04	1.23	3.43	0.54		4.44	2.25	2.57	0.95					
				49	12	33	5		43	22	25	9				608	
	--	8.1	887	71	16	78	26	0	243	93	83	38	0.5	0.32	--	562	243
3- 4-66				3.54	1.32	3.39	0.66		3.98	1.94	2.34	0.61					
				40	15	38	7		45	22	26	7				525	
	67	7.5	838	81	12	69	19	--	248	92	62	39.4	0.4	0.22	--	530	252
5-19-66				4.04	0.99	3.00	0.49		4.06	1.92	1.75	0.64					
				47	12	35	6		49	23	21	8				497	
1S/ 5W-33A 2 S	--	7.7	605	80	11	32	3	0	265	24	35	29.0	0.3	0.04	--	341	245
3- 4-66				3.99	0.90	1.39	0.08		4.34	0.50	0.99	0.47					
				63	14	22	1		69	8	16	7				345	
1S/ 5W-34B 2 S	--	7.9	573	85	10	21	3	0	204	46	23	57	0.3	0.02	--	374	253
3- 4-66				4.24	0.82	0.91	0.08		3.34	0.96	0.65	0.92					
				70	14	15	1		57	16	11	16				346	
1S/ 5W-34D 1 S	--	8.1	297	51	3	12	2	0	174	14	4	5.5	0.3	0.01	--	176	140
3- 4-66				2.54	0.25	0.52	0.05		2.85	0.29	0.11	0.09					
				76	7	15	1		85	9	3	3				177	
1S/ 5W-35G 1 S	68	8.4	470	71	8	18	3	8	210	32	10	24	0.3	0	--	295	210
11- 1-65				3.54	0.66	0.78	0.08	0.27	3.44	0.67	0.28	0.39					
				70	13	15	2	5	68	13	6	8				278	
	--	7.9	469	--	--	--	--	--	--	30	11	--	--	--	--	270	
2- 2-66										0.62	0.31						
	70	7.8	449	65	8	18	3	--	211	31	9	22.5	0.3	0	--	281	195
5-18-66				3.24	0.66	0.78	0.08		3.46	0.65	0.25	0.36					
				68	14	16	2		73	14	5	8				261	
1S/ 5W-36A 1 S	66	7.8	1093	--	--	--	--	--	--	70	53	115	--	--	--		
11-19-65										1.46	1.49	1.85					
	68	8.0	848	--	--	--	--	--	--	108	44	--	--	--	--	520	
1-27-66										2.25	1.24						
	67	8.1	856	64	9	73	61	--	311	79	34	47.5	0.7	0.34	--	522	197
5-11-66				3.19	0.74	3.17	1.56		5.10	1.64	0.96	0.77					
				37	9	37	18		60	19	11	9				521	
1S/ 5W-36B 6 S	--	8.0	1175	107	16	106	30	0	286	159	117	34	0.6	0.36	--	730	333
11- 1-65				5.34	1.32	4.61	0.77		4.69	3.31	3.30	0.55					
				44	11	38	6		40	28	28	5				711	
	--	7.3	1110	104	15	102	24	--	317	143	88	35.5	0.7	0.41	--	706	321
4- 1-66				5.19	1.23	4.43	0.61		5.20	2.98	2.48	0.57					
				45	11	39	5		46	27	22	5				668	
	70	7.4	1181	115	16	102	28	--	324	171	88	48.0	0.6	0.36	--	762	353
5-19-66				5.74	1.32	4.43	0.72		5.31	3.56	2.48	0.77					
				47	11	36	6		44	29	20	6				728	
1S/ 5W-36F 1 S	--	7.6	1167	131	20	90	5	0	265	181	120	44	0.5	0.19	--	787	409
2-25-66				6.54	1.64	3.91	0.13		4.34	3.77	3.38	0.71					
				54	13	32	1		36	31	28	6				722	
1S/ 8W-14A 1 S	--	7.9	448	56	14	16	2	0	179	27	8	53.0	0.4	0.02	--	300	197
3- 7-66				2.79	1.15	0.70	0.05		2.93	0.56	0.23	0.85					
				59	25	15	1		64	12	5	19				264	
2S/ 4W- 5C 1 S	--	8.4	1042	111	22	74	5	10	264	68	106	93	0.9	0.04	--	638	368
11- 1-65				5.54	1.81	3.22	0.13	0.33	4.33	1.42	2.99	1.50					
				52	17	30	1	3	41	13	28	14				620	
	69	7.3	855	83	17	70	4	--	239	68	73	70.0	0.9	0.07	--	519	277
5-19-66				4.14	1.40	3.04	0.10		3.92	1.42	2.06	1.13					
				48	16	35	1		46	17	24	13				503	
2S/ 4W- 6A 1 S	--	7.7	822	103	19	40	4	0	277	72	67	30.8	0.7	0.10	--	510	335
2-25-66				5.14	1.56	1.74	0.10		4.54	1.50	1.89	0.50					
				60	18	20	1		54	18	22	6				473	
	--	7.4	851	105	19	48	5	0	290	79	69	41	0.6	0.14	--	530	340
5-18-66				5.24	1.56	2.09	0.13		4.75	1.64	1.95	0.66					
				58	17	23	1		53	18	22	7				509	
2S/ 4W- 6K 2 S	--	7.4	818	--	--	--	--	--	--	69	68	--	--	--	--	483	
2- 7-66										1.44	1.92						

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
SANTA ANA RIVER HYDRO UNIT Y0100																	
MIDDLE SANTA ANA RIV HYDR SUBUNITY0180 RIVERSIDE HYDRO SUBAREA Y0187																	
2S/ 4W- 6Q 2 S	--	7.9	1336	133	32	109	4	0	236	291	118	45	0.5	0.33	--	918	464
11- 1-65				6.64	2.63	4.74	0.10		3.87	6.06	3.33	0.73					
				47	19	34	1		28	43	24	5				849	
	--	7.3	1412	--	--	--	--	--	--	284	116	--	--	--	--	935	
2- 7-66										5.91	3.27						
	71	7.5	1398	164	32	103	5	0	346	284	115	37	0.6	0.34	--	980	541
5-18-66				8.18	2.63	4.48	0.13		5.67	5.91	3.24	0.60					
				53	17	29	1		37	38	21	4				911	
2S/ 4W- 6R 5 S	68	8.0	896	93	20	59	5	0	213	82	91	73	0.6	0.09	--	560	314
11- 4-65				4.64	1.64	2.57	0.13		3.49	1.71	2.57	1.18					
				52	18	29	1		39	19	29	13				528	
	--	7.4	565	--	--	--	--	--	--	49	30	--	--	--	--	350	
1-31-66										1.02	0.85						
	68	7.7	1010	118	22	58	5	0	285	72	104	70	0.6	0.22	--	610	385
5-18-66				5.89	1.81	2.52	0.13		4.67	1.50	2.93	1.13					
				57	17	24	1		46	15	29	11				590	
2S/ 4W-33R 2 S	66	7.4	762	46	25	65	4	0	167	44	80	81	0.7	0.29	--	455	218
3-22-66				2.30	2.06	2.83	0.10		2.74	0.92	2.26	1.31					
				32	28	39	1		38	13	31	18				428	
2S/ 5W- 1J 2 S	--	7.4	877	76	13	94	5	0	276	96	74	32	1.0	0.48	--	510	243
4- 6-66				3.79	1.07	4.09	0.13		4.52	2.00	2.09	0.52					
				42	12	45	1		50	22	23	6				527	
2S/ 5W-10C 1 S	--	7.8	871	74	26	80	6	--	400	67	35	21	0.8	0.10	--	573	292
5-13-66				3.69	2.14	3.48	0.15		6.56	1.39	0.99	0.34					
				39	23	37	2		71	15	11	4				507	
2S/ 5W-11K 2 S	67	8.0	966	115	21	63	5	0	237	225	60	9.5	0.4	0.38	--	680	374
9-15-66				5.74	1.73	2.74	0.13		3.88	4.68	1.69	0.15					
				56	17	26	1		37	45	16	1				616	
	67	7.2	954	117	22	63	5	0	244	233	60	9.5	0.4	0.38	--	680	383
9-15-66				5.84	1.81	2.74	0.13		4.00	4.85	1.69	0.15					
				56	17	26	1		37	45	16	1				630	
	67	7.9	1050	133	26	62	5	0	229	291	62	3.6	0.4	0.36	--	790	439
9-15-66				6.64	2.14	2.70	0.13		3.75	6.06	1.75	0.06					
				57	18	23	1		32	52	15	1				696	
	70	7.9	994	100	33	63	6	0	100	343	55	0.4	0.4	0.36	--	720	385
9-15-66				4.99	2.71	2.74	0.15		1.64	7.14	1.55	0.01					
				47	26	26	1		16	69	15					650	
2S/ 5W-11A 1 S	69	7.8	919	98	17	68	4	0	226	137	78	38	0.3	0.26	--	590	315
11- 4-65				4.89	1.40	2.96	0.10		3.70	2.85	2.20	0.61					
				52	15	32	1		40	30	24	7				552	
	--	7.3	1066	--	--	--	--	--	--	173	93	--	--	--	--	675	
2- 2-66										3.60	2.62						
	--	7.4	857	101	17	55	4	0	260	121	58	35	0.3	0.18	--	586	322
5-20-66				5.04	1.40	2.39	0.10		4.26	2.52	1.64	0.56					
				56	16	27	1		47	28	18	6				519	
2S/ 5W-11K 2 S	67	7.4	999	--	--	--	--	--	--	225	74	5	--	--	--		
11-12-65										4.68	2.09	0.08					
	67	7.3	959	--	--	--	--	--	--	194	73	5	--	--	--		
11-12-65										4.04	2.06	0.08					
	65	7.3	951	--	--	--	--	--	--	190	72	4	--	--	--		
11-12-65										3.96	2.03	0.06					
	65	7.2	930	--	--	--	--	--	--	167	73	11	--	--	--		
11-12-65										3.48	2.06	0.18					
	70	7.4	827	--	--	--	--	--	--	173	70	1	--	--	--		
11-12-65										3.60	1.97	0.02					
	66	6.6	1300	--	--	--	--	--	--	403	73	--	--	--	--	890	
1-26-66										8.39	2.06						

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
MIDDLE SANTA ANA RIV HYDR SUBUNITY01BO						SANTA ANA RIVER HYDRO UNIT				Y0100							
RIVERSIDE HYDRO SUBAREA					Y01B7												
2S/ 5W-11K 2 S	65	6.8	1104	--	--	--	--	--	--	263	76	--	--	--	--	715	
1-26-66										5.48	2.14						
	66	6.8	1089	--	--	--	--	--	--	250	76	--	--	--	--	715	
1-26-66										5.21	2.14						
	66	6.6	1260	--	--	--	--	--	--	373	73	--	--	--	--	870	
1-26-66										7.77	2.06						
	70	7.0	959	--	--	--	--	--	--	243	74	--	--	--	--	590	
1-26-66										5.06	2.09						
	71	7.1	1643	221	52	80	8	--	150	734	46	1.0	0.6	0.36	--	1350	766
5- 2-66				11.03	4.28	3.48	0.20		2.46	15.28	1.30	0.02					
				58	23	18	1		13	80	7					1217	
	67	6.9	1713	249	50	81	8	--	189	754	42	1.0	0.6	0.36	--	1390	828
5- 6-66				12.43	4.11	3.52	0.20		3.10	15.70	1.18	0.02					
				61	20	17	1		16	79	6					1279	
	68	6.8	1681	248	46	78	7	--	182	736	42	3.0	0.6	0.36	--	1343	809
5- 6-66				12.38	3.78	3.39	0.18		2.98	15.32	1.18	0.05					
				63	19	17	1		15	78	6					1250	
	69	7.1	1534	186	51	82	8	--	101	686	49	1.2	0.6	0.32	--	1224	674
5- 9-66				9.28	4.19	3.57	0.20		1.66	14.28	1.36	0.02					
				54	24	21	1		10	82	8					1114	
2S/ 5W-11M 1 S	--	8.4	689	90	14	38	3	5	243	82	32	36	0.4	0.04	--	445	282
11- 4-65				4.49	1.15	1.65	0.08	0.17	3.98	1.71	0.90	0.58					
				61	16	22	1	2	54	23	12	8				420	
	--	7.3	741	--	--	--	--	--	--	92	36	--	--	--	--	450	
2- 1-66										1.92	1.02						
	--	7.4	725	90	18	38	4	--	258	89	32	38.0	0.4	0.01	--	460	299
5-18-66				4.49	1.48	1.65	0.10		4.23	1.85	0.90	0.61					
				58	19	21	1		56	24	12	8				436	
2S/ 5W-12B 2 S	--	8.3	971	97	18	82	5	0	266	130	87	31	0.7	0.36	--	600	316
11- 1-65				4.84	1.48	3.57	0.13		4.36	2.71	2.45	0.50					
				48	15	36	1		44	27	24	5				582	
	--	7.2	1056	--	--	--	--	--	--	163	102	--	--	--	--	665	
2- 1-66										3.39	2.88						
	--	7.4	1062	112	21	86	6	0	278	159	101	25	0.7	0.38	--	690	365
5-18-66				5.59	1.73	3.74	0.15		4.56	3.31	2.85	0.40					
				50	15	33	1		41	30	26	4				648	
2S/ 5W-12C 1 S	--	8.2	861	80	14	82	5	0	264	94	79	20	0.5	0.42	--	510	257
11- 1-65				3.99	1.15	3.57	0.13		4.33	1.96	2.23	0.32					
				45	13	40	1		49	22	25	4				505	
	--	7.1	856	--	--	--	--	--	--	95	78	--	--	--	--	460	
2- 1-66										1.98	2.20						
2S/ 5W-12C 1 S	--	7.4	850	84	15	84	5	0	276	105	78	15	0.5	0.40	--	510	271
4- 5-66				4.19	1.23	3.65	0.13		4.52	2.19	2.20	0.24					
				46	13	40	1		49	24	24	3				523	
	72	7.4	886	83	9	88	6	0	281	104	77	14	0.6	0.44	--	520	244
5-18-66				4.14	0.74	3.83	0.15		4.61	2.17	2.17	0.23					
				47	8	43	2		50	24	24	3				520	
2S/ 5W-12E 1 S	--	8.3	333	48	5	15	2	0	175	18	8	4	0.3	0	--	200	141
11- 1-65				2.40	0.41	0.65	0.05		2.87	0.37	0.23	0.06					
				68	12	19	1		81	10	7	2				186	
	--	7.6	321	--	--	--	--	--	--	13	5	--	--	--	--	180	
2- 1-66										0.27	0.14						
	70	7.7	321	46	6	14	2	--	173	22	5	4.3	0.2	0	--	188	140
5-18-66				2.30	0.49	0.61	0.05		2.84	0.46	0.14	0.07					
				67	14	18	1		81	13	4	2				185	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
				SANTA ANA RIVER HYDRO UNIT Y0100													
MIDDLE SANTA ANA RIV HYDR SUBUNITY01B0 RIVERSIDE HYDRO SUBAREA Y01B7																	
2S/ 5W-12F 2 S	65	8.5	1065	127	24	67	6	15	267	166	89	35	0.6	0.22	--	715	416
11- 1-65				6.34	1.97	2.91	0.15	0.50	4.38	3.46	2.51	0.56					
				56	17	26	1	4	38	30	22	5				661	
	--	7.2	991	--	--	--	--	--	--	135	87	--	--	--	--	630	
2- 1-66										2.81	2.45						
	69	7.2	1078	125	25	70	6	--	294	162	90	36.0	0.5	0.27	--	707	415
5-18-66				6.24	2.06	3.04	0.15		4.82	3.37	2.54	0.58					
				54	18	26	1		43	30	22	5				659	
2S/ 5W-14D 1 S	74	9.5	463	3	0	90	3	30	10	28	84	0.8	1.8	0.77	--	201	8
9-21-66				0.15		3.91	0.08	1.00	0.16	0.58	2.37	0.01					
				4		94	2	24	4	14	58					246	
	72	9.5	478	5	1	91	0	22	27	33	82	1	2.5	0.84	--	290	17
4- 1-66				0.25	0.08	3.96		0.73	0.44	0.69	2.31	0.02					
				6	2	92		17	11	16	55					252	
2S/ 5W-14G 2 S	--	8.1	586	64	12	40	3	0	174	103	37	0	0.6	0.14	--	365	209
11- 4-65				3.19	0.99	1.74	0.08		2.85	2.14	1.04						
				53	17	29	1		47	35	17					345	
	--	7.2	644	--	--	--	--	--	--	127	40	--	--	--	--	400	
2- 1-66										2.64	1.13						
	68	7.2	1077	149	24	52	5	--	251	256	69	12.5	0.5	0.14	--	735	471
5-18-66				7.44	1.97	2.26	0.13		4.11	5.33	1.95	0.20					
				63	17	19	1		35	46	17	2				692	
2S/ 5W-20R 1 S	--	8.1	591	72	12	34	3	0	203	96	21	4	0.3	0.02	--	375	229
11- 4-65				3.59	0.99	1.48	0.08		3.33	2.00	0.59	0.06					
				58	16	24	1		56	33	10	1				342	
	--	7.5	725	--	--	--	--	--	--	108	24	--	--	--	--	440	
2- 2-66										2.25	0.68						
	64	7.4	841	119	18	39	4	--	299	145	34	13.3	0.3	0.01	--	544	371
5-18-66				5.94	1.48	1.70	0.10		4.90	3.02	0.96	0.21					
				64	16	18	1		54	33	11	2				520	
2S/ 5W-21J 1 S	--	8.0	781	96	19	43	4	0	195	168	49	21	0.5	0.08	--	515	318
11- 4-65				4.79	1.56	1.87	0.10		3.20	3.50	1.38	0.34					
				58	19	22	1		38	42	16	4				496	
	68	7.4	625	73	13	38	4	--	219	83	39	1.5	0.5	0.11	--	370	236
5-18-66				3.64	1.07	1.65	0.10		3.59	1.73	1.10	0.02					
				56	17	26	2		56	27	17					360	
2S/ 5W-22D 1 S	70	7.3	929	121	22	47	5	--	267	186	56	1.8	0.6	0.11	--	595	393
5-18-66				6.04	1.81	2.04	0.13		4.38	3.87	1.58	0.03					
				60	18	20	1		44	39	16					571	
2S/ 5W-29E 4 S	--	7.5	502	--	--	--	--	--	--	21	26	--	--	--	--	250	
2- 7-66										0.44	0.73						
	62	7.9	800	87	16	60	7	0	278	102	58	15	0.4	0.19	--	480	283
5-18-66				4.34	1.32	2.61	0.18		4.56	2.12	1.64	0.24					
				51	16	31	2		53	25	19	3				482	
3S/ 4W-19R 1 S	68	7.4	1223	95	45	63	4	0	149	65	206	96	0.4	0.23	--	880	422
3-22-66				4.74	3.70	2.74	0.10		2.44	1.35	5.81	1.55					
				42	33	24	1		22	12	52	14				648	
3S/ 4W-19R 2 S	68	8.1	600	27	19	62	4	0	153	29	85	9	0.7	0	--	308	146
3-22-66				1.35	1.56	2.70	0.10		2.51	0.60	2.40	0.15					
				24	27	47	2		44	11	42	3				311	
1N/ 4W-32E12 S	67	7.3	892	--	--	--	--	--	--	64	88	11	--	--	--		
11-17-65										1.33	2.48	0.18					
	--	7.4	892	--	--	--	--	--	--	64	89	11	--	--	--		
11-17-65										1.33	2.51	0.18					
	67	7.9	878	--	--	--	--	--	--	64	86	11	--	--	--		
11-17-65										1.33	2.43	0.18					

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
SANTA ANA RIVER HYDRO UNIT Y0100																	
LAKE MATHEWS HYDRO SUBUNIT Y01C0																	
BEDFORD HYDRO SUBAREA Y01C2																	
4S/ 6W-16G 2 S	--	7.2	1773	229	51	105	3	0	310	479	129	98	0.7	0.16	--	1340	782
3-29-66				11.43	4.19	4.57	0.08		5.08	9.97	3.64	1.58					
				56	21	23			25	49	18	8				1247	
4S/ 6W-21J 1 S	--	7.6	1658	210	55	85	2	0	354	386	115	105	0.7	0.50	--	1190	751
3-29-66				10.48	4.52	3.70	0.05		5.80	8.04	3.24	1.69					
				56	24	20			31	43	17	9				1133	
4S/ 6W-22D 1 S	--	7.2	1421	--	--	--	--	--	--	--	101	--	1.0	--	--		602
7-23-66											2.85						
	--	--	1442	--	--	--	--	--	--	--	--	--	3.5	--	--		615
8-17-66																	
	--	7.4	1321	163	37	80	2	0	293	316	83	66	0.7	0.12	--	950	559
3-29-66				8.13	3.04	3.48	0.05		4.80	6.58	2.34	1.06					
				55	21	24			32	45	16	7				892	
LEE LAKE HYDRO SUBAREA Y01C4																	
5S/ 5W-16R 2 S	65	7.5	1175	102	28	117	1	0	299	220	103	10.0	0.6	0.16	--	770	370
2-24-66				5.09	2.30	5.09	0.03		4.90	4.58	2.90	0.16					
				41	18	41			39	37	23	1				729	
COLTON-RIALTO HYDRO SUBUNIT Y01D0																	
RECHE HYDRO SUBAREA Y01D4																	
1S/ 4W-18E 1 S	--	7.4	385	55	9	15	2	0	201	25	8	0.7	0.4	0.04	--	251	174
2-25-66				2.74	0.74	0.65	0.05		3.29	0.52	0.23	0.01					
				66	18	16	1		81	13	6					214	
1S/ 4W-21L 1 S	--	8.0	774	96	15	50	4	0	244	132	45	10	0.9	0.22	--	520	301
9-15-66				4.79	1.23	2.17	0.10		4.00	2.75	1.27	0.16					
				58	15	26	1		49	34	16	2				473	
1S/ 4W-21R 1 S	--	7.6	923	81	16	100	5	0	364	76	80	1.2	1.4	0.62	--	580	268
9-15-66				4.04	1.32	4.35	0.13		5.97	1.58	2.26	0.02					
				41	13	44	1		61	16	23					540	
1S/ 4W-21R 3 S	--	8.2	1068	28	9	215	3	0	559	1	82	4.0	0.2	0.46	--	670	107
9-16-66				1.40	0.74	9.35	0.08		9.16	0.02	2.31	0.06					
				12	6	81	1		79		20	1				617	
1S/ 4W-21R 4 S	68	8.5	568	33	6	86	3	19	234	30	31	0.0	1.4	0.46	--	360	107
9-16-66				1.65	0.49	3.74	0.08	0.63	3.84	0.62	0.87						
				28	8	63	1	11	64	10	15					325	
1S/ 4W-21R 5 S	68	8.2	547	53	10	60	3	0	273	40	27	0.0	1.1	0.46	--	350	173
9-16-66				2.64	0.82	2.61	0.08		4.47	0.83	0.76						
				43	13	42	1		74	14	13					329	
1S/ 4W-21R 6 S	66	10.2	387	2	1	74	2	41	0	36	35	0.4	0.8	0.36	--	250	9
9-16-66				0.10	0.08	3.22	0.05	1.37		0.75	0.99	0.01					
				3	2	93	1	44		24	32					193	
1S/ 4W-21L 1 S	--	7.7	842	97	22	52	4	0	254	150	53	12	1.0	0.24	--	570	333
5-20-66				4.84	1.81	2.26	0.10		4.16	3.12	1.49	0.19					
				54	20	25	1		46	35	17	2				516	
1S/ 4W-21L 3 S	72	8.0	648	61	12	55	4	0	198	81	51	10	--	--	--		202
11- 2-65				3.04	0.99	2.39	0.10		3.25	1.69	1.44	0.16					
				47	15	37	2		50	26	22	2				371	
	--	7.4	494	--	--	--	--	--	--	58	9	--	--	--	--	310	
1-27-66										1.21	0.25						
1S/ 4W-21R 1 S	--	8.2	816	88	23	53	3	0	279	85	73	14	0.8	0.39	--	522	314
11- 4-65				4.39	1.89	2.30	0.08		4.57	1.77	2.06	0.23					
				51	22	27	1		53	21	24	3				477	
	--	7.2	828	--	--	--	--	--	--	76	77	--	--	--	--	505	
1-27-66										1.58	2.17						
	--	7.2	1039	117	31	67	6	0	344	168	54	44	0.7	0.39	--	662	420
2-24-66				5.84	2.55	2.91	0.15		5.64	3.50	1.52	0.71					
				51	22	25	1		50	31	13	6				657	
	--	7.1	867	83	21	70	5	0	294	102	71	6.0	0.6	0.46	--	532	294
5-20-66				4.14	1.73	3.04	0.13		4.82	2.12	2.00	0.10					
				46	19	34	1		53	23	22	1				504	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
SANTA ANA RIVER HYDRO UNIT Y0100																	
COLTON-RIALTO HYDRO SUBUNIT Y01D0																	
RECHE HYDRO SUBAREA Y01D4																	
1S/ 4-21R 3 S	67	--	1005	29	9	217	3	36	498	0	82	1.0	0.2	0.48	--	655	110
5-10-66				1.45	0.74	9.44	0.08	1.20	8.16		2.31	0.02					
				12	6	81	1	10	70		20					622	
1S/ 4W-21R 4 S	67	8.2	574	--	--	--	--	--	--	28	30	0	--	--	--		
11-12-65										0.58	0.85						
	65	8.0	581	--	--	--	--	--	--	31	30	--	--	--	--	290	
1-25-66										0.65	0.85						
	68	8.2	565	36	5	85	2	0	273	30	30	0.0	1.4	0.40	--	350	111
5-10-66				1.80	0.41	3.70	0.05		4.47	0.62	0.85						
				30	7	62	1		75	10	14					324	
1S/ 4W-21R 5 S	67	8.2	570	--	--	--	--	--	--	40	25	0	--	--	--		
11-12-65										0.83	0.71						
	68	7.8	576	--	--	--	--	--	--	41	27	--	--	--	--	300	
1-25-66										0.85	0.76						
	68	8.0	572	53	9	61	3	0	273	39	25	0.0	1.4	0.12	--	355	169
5-10-66				2.64	0.74	2.65	0.08		4.47	0.81	0.71						
				43	12	43	1		75	14	12					326	
1S/ 4W-21R 6 S	69	10.4	457	--	--	--	--	--	--	46	33	0	--	--	--		
11-12-65										0.96	0.93						
	67	10.4	437	--	--	--	--	--	--	45	33	--	--	--	--	200	
1-25-66										0.94	0.93						
	67	10.6	494	17	0	76	3	62	0	39	35	0.0	0.8	0.16	--	270	43
5-10-66				0.85		3.30	0.08	2.07		0.81	0.99						
				20		78	2	53		21	26					233	
1S/ 4W-21R 7 S	67	8.4	574	--	--	--	--	--	--	26	27	0	--	--	--		
11-12-65										0.54	0.76						
	67	8.2	590	--	--	--	--	--	--	26	27	--	--	--	--	284	
1-25-66										0.54	0.76						
	--	--	582	45	11	68	3	0	298	24	27	0.4	1.4	0.38	--	350	158
5-10-66				2.25	0.90	2.96	0.08		4.88	0.50	0.76	0.01					
				36	15	48	1		79	8	12					327	
1S/ 4W-25A 2 S	--	7.6	471	62	12	18	2	--	197	38	13	30	0.3	0	--	310	204
9-16-66				3.09	0.99	0.78	0.05		3.23	0.79	0.37	0.48					
				63	20	16	1		66	16	8	10				272	
1S/ 4W-28D 1 S	--	8.1	826	89	14	65	5	0	276	65	85	17	0.4	0.30	--	540	280
9-15-66				4.44	1.15	2.83	0.13		4.52	1.35	2.40	0.27					
				52	13	33	2		53	16	28	3				476	
	--	7.9	791	87	12	61	5	0	268	59	70	29	0.4	0.32	--	524	267
5-20-66				4.34	0.99	2.65	0.13		4.39	1.23	1.97	0.47					
				54	12	33	2		54	15	24	6				455	
1S/ 4W-28E 1 S	73	7.2	912	--	--	--	--	--	--	79	81	76	--	--	--		
11-18-65										1.64	2.28	1.23					
	75	7.2	910	--	--	--	--	--	--	77	79	77	--	--	--		
11-18-65										1.60	2.23	1.24					
	75	7.1	912	--	--	--	--	--	--	79	79	74	--	--	--		
11-18-65										1.64	2.23	1.19					
	75	7.0	914	--	--	--	--	--	--	79	79	76	--	--	--		
11-18-65										1.64	2.23	1.23					
	75	7.1	926	--	--	--	--	--	--	79	81	83	--	--	--		
11-18-65										1.64	2.28	1.34					

TABLE E-1

ANALYSES OF GROUND WATER

-SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C 105C COMP	HARDNESS CACO3
SANTA ANA RIVER HYDRO UNIT Y0100																	
COLTON-RIALTO HYDRO SUBUNIT Y0100 / RECHE HYDRO SUBAREA Y0104																	
1S/ 4W-28G 2 S	--	8.0	1000	96	25	92	3	0	373	132	64	15	0.8	0.25	--	590	343
11-22-65				4.79	2.06	4.00	0.08		6.11	2.75	1.80	0.24					
				44	19	37	1		56	25	17	2				611	
	--	7.1	1024	--	--	--	--	--	--	128	65	--	--	--	--	620	
1-28-66										2.66	1.83						
	--	7.4	986	91	26	88	3	--	368	120	62	14.6	0.8	0.29	--	608	334
5-20-66				4.54	2.14	3.83	0.08		6.03	2.50	1.75	0.24					
				43	20	36	1		57	24	17	2				587	
1S/ 4W-28R 1 S	--	8.5	621	42	11	76	2	8	208	37	53	27	0.7	0.08	--	370	150
11- 2-65				2.10	0.90	3.30	0.05	0.27	3.41	0.77	1.49	0.44					
				33	14	52	1	4	53	12	23	7				359	
	70	7.8	623	43	12	71	3	--	223	31	52	28.0	0.7	0.07	--	370	157
5-19-66				2.15	0.99	3.09	0.08		3.65	0.65	1.47	0.45					
				34	16	49	1		59	10	24	7				350	
1S/ 4W-28R 3 S	--	7.7	1003	93	28	88	3	0	370	124	64	16	0.9	0.29	--	596	347
2-24-66				4.64	2.30	3.83	0.08		6.06	2.58	1.80	0.26					
				43	21	35	1		57	24	17	2				599	
1S/ 4W-29A 2 S	--	7.8	405	38	4	44	3	0	185	28	18	6.8	0.4	0.06	--	270	112
9-15-66				1.90	0.33	1.91	0.08		3.03	0.58	0.51	0.11					
				45	8	45	2		72	14	12	3				233	
1S/ 4W-29H 1 S	--	7.9	773	69	13	80	5	0	264	61	78	12	0.8	0.46	--	480	226
9-15-66				3.44	1.07	3.48	0.13		4.33	1.27	2.20	0.19					
				42	13	43	2		54	16	28	2				449	
1S/ 4W-29H 3 S	--	8.0	762	86	15	53	4	0	254	57	70	36	0.8	0.24	--	490	276
9-15-66				4.29	1.23	2.30	0.10		4.16	1.19	1.97	0.58					
				54	16	29	1		53	15	25	7				447	
1S/ 4W-29A 1 S	--	8.4	537	48	4	61	3	5	178	60	39	4	1.5	0.53	--	339	137
11- 3-65				2.40	0.33	2.65	0.08	0.17	2.92	1.25	1.10	0.06					
				44	6	49	1	3	53	23	20	1				314	
1S/ 4W-29A 2 S	--	7.5	445	--	--	--	--	--	--	30	19	--	--	--	--	240	
1-31-66										0.62	0.54						
	--	8.0	390	36	4	41	3	--	176	30	15	5.8	0.3	0.03	--	232	107
5-20-66				1.80	0.33	1.78	0.08		2.88	0.62	0.42	0.09					
				45	8	45	2		72	15	10	2				222	
1S/ 4W-29H 3 S	--	7.3	892	--	--	--	--	--	--	63	104	--	--	--	--	570	
1-31-66										1.31	2.93						
	--	7.5	836	90	16	58	5	--	260	65	76	42.2	0.6	0.22	--	523	291
5-20-66				4.49	1.32	2.52	0.13		4.26	1.35	2.14	0.68					
				53	16	30	2		51	16	25	8				481	
2S/ 3W-18D 2 S	80	7.9	405	25	9	39	2	0	131	10	40	16	0.8	0.05	--	211	100
9-23-66				1.25	0.74	1.70	0.05		2.15	0.21	1.13	0.26					
				33	20	45	1		57	6	30	7				206	
2S/ 3W-18D 1 S	68	7.6	390	24	9	40	2	0	132	12	38	10	0.9	0.03	--	203	97
10- 1-65				1.20	0.74	1.74	0.05		2.16	0.25	1.07	0.16					
				32	20	47	1		59	7	29	4				201	
2S/ 3W-18D 2 S	59	8.1	410	27	10	40	1	0	138	12	41	15	0.7	0.02	--	248	109
3-25-66				1.35	0.82	1.74	0.03		2.26	0.25	1.16	0.24					
				34	21	44	1		58	6	30	6				215	
2S/ 3W-18K 1 S	61	7.9	427	24	9	46	2	0	122	12	46	25	0.8	0.03	--	270	97
3-25-66				1.20	0.74	2.00	0.05		2.00	0.25	1.30	0.40					
				30	19	50	1		51	6	33	10				225	
2S/ 3W-20D 4 S	79	7.5	312	14	7	37	3	0	119	4	30	3	1.2	0.04	--	141	64
9-23-66				0.70	0.58	1.61	0.08		1.95	0.08	0.85	0.05					
				24	20	54	3		67	3	29	2				158	
	68	7.6	295	13	6	37	3	0	114	7	25	2	1.2	0	--	164	57
10- 1-65				0.65	0.49	1.61	0.08		1.87	0.15	0.71	0.03					
				23	17	57	3		68	5	26	1				150	
	57	7.5	307	15	6	37	2	0	123	6	29	3	1.2	0.02	--	163	62
3-25-65				0.75	0.49	1.61	0.05		2.02	0.12	0.82	0.05					
				26	17	56	2		67	4	27	2				160	

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ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
SANTA ANA RIVER HYDRO UNIT Y0100																	
2S/ 4W-12M 1 S	70	7.8	525	38	12	50	2	0	182	14	54	17	0.9	0.04	--	304	145
9-23-66				1.90	0.99	2.17	0.05		2.98	0.29	1.52	0.27					
				37	19	42	1		59	6	30	5				277	
	74	7.5	484	38	12	39	1	0	168	18	43	20	0.7	0.03	--	274	145
10- 1-65				1.90	0.99	1.70	0.03		2.75	0.37	1.21	0.32					
				41	21	37	1		59	8	26	7				254	
	60	7.9	474	37	13	40	0	0	150	16	43	34	0.6	0.02	--	283	146
3-25-66				1.85	1.07	1.74			2.46	0.33	1.21	0.55					
				40	23	37			54	7	27	12				257	
UPPER SANTA ANA HYDRO SUBUNIT Y01E0																	
CAJON HYDRO SUBAREA Y01E1																	
2N/ 4W-31AS1 S	63	8.1	404	50	15	14	2	0	222	24	9	3.0	0.4	0	--	260	187
4-27-66				2.50	1.23	0.61	0.05		3.64	0.50	0.25	0.05					
				57	28	14	1		82	11	6	1				227	
2N/ 4W-31BS1 S	57	8.4	339	46	11	10	3	7	161	27	10	3.6	0.3	0	--	215	160
4-27-66				2.30	0.90	0.43	0.08	0.23	2.64	0.56	0.28	0.06					
				62	24	12	2	6	70	15	7	2				197	
BUNKER HILL HYDRO SUBAREA Y01E2																	
1S/ 2W- 8X 1 S	--	7.4	440	28	9	55	3	0	145	86	10	3.6	1.3	0.11	--	285	107
7-24-66				1.40	0.74	2.39	0.08		2.38	1.79	0.28	0.06					
				30	16	52	2		53	40	6	1				267	
1S/ 3W- 8N 2 S	--	7.2	824	--	--	--	--	--	--	--	83	--	0.4	0.54	--		347
1-31-66											2.34						
	64	7.2	792	--	--	--	--	--	--	--	78	--	0.4	0.54	--		334
2- 1-66											2.20						
1S/ 3W- 8N 3 S	63	7.6	814	72	17	50	4	0	210	52	84	20	0.3	0.49	--	440	250
11-19-65				3.59	1.40	2.17	0.10		3.44	1.08	2.37	0.32					
				49	19	30	1		48	15	33	4				403	
	63	7.6	820	83	17	46	4	0	238	51	86	20	0.3	0.53	--	450	277
11-19-65				4.14	1.40	2.00	0.10		3.90	1.06	2.43	0.32					
				54	18	26	1		51	14	32	4				425	
1S/ 3W-17C 3 S	--	7.5	678	88	16	30	3	0	244	75	39	26.0	0.4	0.18	--	450	286
3-30-66				4.39	1.32	1.30	0.08		4.00	1.56	1.10	0.42					
				62	19	18	1		56	22	16	6				397	
1S/ 3W-19H 1 S	--	7.8	412	44	5	32	2	0	166	41	4	12.0	1.3	0.04	--	250	131
3-30-66				2.20	0.41	1.39	0.05		2.72	0.85	0.11	0.19					
				54	10	34	1		70	22	3	5				223	
1S/ 4W-13G 2 S	--	7.6	389	52	9	15	2	0	176	23	19	8.0	0.4	0.30	--	230	167
3-30-66				2.59	0.74	0.65	0.05		2.88	0.48	0.54	0.13					
				64	18	16	1		71	12	13	3				215	
1S/ 4W-13L 1 S	--	7.7	542	72	14	20	3	0	183	65	11	72.0	0.5	0.02	--	345	237
3-30-66				3.59	1.15	0.87	0.08		3.00	1.35	0.31	1.16					
				63	20	15	1		52	23	5	20				347	
1S/ 4W-13M 2 S	--	7.9	256	29	4	19	2	0	132	15	7	1.0	0.5	0	--	150	89
3-30-66				1.45	0.33	0.83	0.05		2.16	0.31	0.20	0.02					
				55	12	31	2		80	12	7	1				142	
1S/ 4W-13N 5 S	65	8.1	583	74	14	25	3	0	168	100	17	43	0.4	0.10	--	400	242
11- 2-65				3.69	1.15	1.09	0.08		2.75	2.08	0.48	0.69					
				61	19	18	1		46	35	8	12				359	
	64	7.5	626	87	14	24	3	--	211	95	16	42.0	0.5	0.09	--	420	275
5-19-66				4.34	1.15	1.04	0.08		3.46	1.98	0.45	0.68					
				66	17	16	1		53	30	7	10				385	
1S/ 4W-22L 5 S	--	7.9	428	51	9	26	2	0	176	58	14	5.0	1.0	0.06	--	280	164
9-15-66				2.54	0.74	1.13	0.05		2.88	1.21	0.39	0.08					
				57	17	25	1		63	27	9	2				253	
1S/ 4W-22A 5 S	67	8.4	744	109	19	29	4	2	266	164	17	1	0.5	0.03	--	516	350
11- 2-65				5.44	1.56	1.26	0.10	0.07	4.36	3.41	0.48	0.02					
				65	19	15	1	1	52	41	6					476	
1S/ 4W-22C 2 S	74	7.6	354	22	2	53	2	0	145	33	18	2	0.8	0.06	--	213	63
11- 2-65				1.10	0.16	2.30	0.05		2.38	0.69	0.51	0.03					
				30	4	64	1		66	19	14	1				204	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
				MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE								MILLIGRAMS PER LITER	
SANTA ANA RIVER HYDRO UNIT Y0100																	
UPPER SANTA ANA HYDRO SUBUNIT Y01E0																	
BUNKER HILL HYDRO SUBAREA Y01E2																	
1S/ 4W-23D 2 S	--	7.8	281	21	4	36	2	0	146	14	6	1.6	2.0	0.24	--	170	69
9-15-66				1.05	0.33	1.57	0.05		2.39	0.29	0.17	0.03					
				35	11	52	2		83	10	6	1				159	
1S/ 4W-23C 2 S	--	8.1	457	--	--	--	--	--	--	45	28	--	--	--	--	240	
2- 2-66										0.94	0.79						
1S/ 4W-23D 2 S	--	7.3	344	--	--	--	--	--	--	42	15	--	--	--	--	195	
1-27-66										0.87	0.42						
1S/ 4W-23D 3 S	--	8.3	296	23	2	39	2	0	148	15	8	1	1.8	0.28	--	182	66
11- 4-65				1.15	0.16	1.70	0.05		2.43	0.31	0.23	0.02					
				38	5	56	2		81	10	8	1				165	
	--	7.8	295	25	2	38	2	--	143	17	7	1.8	1.5	0.22	--	180	71
5-19-66				1.25	0.16	1.65	0.05		2.34	0.35	0.20	0.03					
				40	5	53	2		80	12	7	1				165	
1S/ 4W-23K 1 S	69	8.2	632	68	20	36	2	0	213	81	32	32	0.7	0.02	--	400	252
11- 1-65				3.39	1.64	1.57	0.05		3.49	1.69	0.90	0.52					
				51	25	24	1		53	26	14	8				376	
	67	7.4	672	77	19	36	3	--	236	84	31	30.0	0.7	0.05	--	419	270
5-19-66				3.84	1.56	1.57	0.08		3.87	1.75	0.87	0.48					
				54	22	22	1		56	25	12	7				397	
1S/ 4W-23K 2 S	70	8.1	731	45	23	75	3	0	233	82	43	48	0.7	0.05	--	448	207
11- 1-65				2.25	1.89	3.26	0.08		3.82	1.71	1.21	0.77					
				30	25	44	1		51	23	16	10				434	
	68	7.4	840	69	24	76	3	--	304	81	44	50.0	0.8	0.08	--	518	271
5-19-66				3.44	1.97	3.30	0.08		4.98	1.69	1.24	0.81					
				39	22	38	1		57	19	14	9				497	
1S/ 4W-23P 3 S	71	8.4	410	48	7	29	2	5	171	27	22	6	0.9	0.01	--	250	149
11- 2-65				2.40	0.58	1.26	0.05	0.17	2.80	0.56	0.62	0.10					
				56	14	29	1	4	66	13	15	2				231	
	72	7.8	422	46	8	29	3	--	173	30	25	8.5	0.9	0.01	--	253	148
5-20-66				2.30	0.66	1.26	0.08		2.84	0.62	0.71	0.14					
				53	15	29	2		66	14	16	3				235	
1S/ 4W-24E 1 S	--	8.0	352	54	6	12	2	0	183	19	5	12	0.2	0.05	--	170	159
4- 7-66				2.69	0.49	0.52	0.05		3.00	0.40	0.14	0.19					
				72	13	14	1		80	11	4	5				200	
1S/ 4W-26F 1 S	--	8.0	569	--	--	--	--	--	--	--	--	--	--	--	--		
9-15-66																	
1S/ 4W-26F 1 S	72	8.2	506	23	6	78	2	0	185	45	40	2	0.8	0.10	--	300	82
11- 2-65				1.15	0.49	3.39	0.05		3.03	0.94	1.13	0.03					
				23	10	67	1		59	18	22	1				288	
	--	7.8	569	--	--	--	--	--	--	41	38	--	--	--	--	325	
1-28-66										0.85	1.07						
1S/ 4W-27B 2 S	--	8.0	670	56	14	74	3	0	283	53	46	9.0	1.1	0.06	--	420	197
9-15-66				2.79	1.15	3.22	0.08		4.64	1.10	1.30	0.15					
				39	16	44	1		65	15	18	2				395	
	--	8.5	679	56	14	73	3	14	239	57	49	12	0.9	0.07	--	408	197
11- 2-65				2.79	1.15	3.17	0.08	0.47	3.92	1.19	1.38	0.19					
				39	16	44	1	7	55	17	19	3				396	
	--	7.6	698	--	--	--	--	--	--	54	53	--	--	--	--	400	
1-28-66										1.12	1.49						
	74	7.9	685	56	14	72	3	0	273	59	47	7.5	0.9	0.10	--	418	197
5-19-66				2.79	1.15	3.13	0.08		4.47	1.23	1.33	0.12					
				39	16	44	1		63	17	19	2				394	
1N/ 4W-29E 1 S	--	7.5	475	67	14	13	3	0	237	32	10	18.0	0.5	0.04	--	250	225
4-25-66				3.34	1.15	0.57	0.08		3.88	0.67	0.28	0.29					
				65	22	11	2		76	13	5	6				274	
1N/ 4W-29F 1 S	--	7.2	1190	193	38	25	5	0	300	365	32	38.0	0.5	1.00	--	880	639
4-25-66				9.63	3.13	1.09	0.13		4.92	7.60	0.90	0.61					
				69	22	8	1		35	54	6	4				845	
1N/ 4W-29L 1 S	--	7.5	597	85	16	15	4	0	242	68	14	33.0	0.5	0.06	--	340	278
4-25-66				4.24	1.32	0.65	0.10		3.97	1.42	0.39	0.53					
				67	21	10	2		63	23	6	8				354	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA-

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO 3
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
SANTA ANA RIVER HYDRO UNIT Y0100																	
UPPER SANTA ANA HYDRO SUBUNIT Y01E0																	
BUNKER HILL HYDRO SUBAREA Y01E2																	
1N/ 5W-23A 2 S	--	7.6	514	72	13	18	3	0	246	51	8	7.5	0.5	0.04	--	285	233
4-25-66				3.59	1.07	0.78	0.08		4.03	1.06	0.23	0.12					
				65	19	14	1		74	19	4	2				294	
1N/ 5W-23H 1 S	--	7.6	505	69	15	17	3	0	242	55	10	5.0	0.4	0.04	--	270	234
4-25-66				3.44	1.23	0.74	0.08		3.97	1.15	0.28	0.08					
				63	22	13	1		72	21	5	1				293	
2N/ 4W- 6R 1 S	--	6.3	135	13	2	12	1	0	62	4	9	0	0.1	0	--	106	41
7-21-66				0.65	0.16	0.52	0.03		1.02	0.08	0.25						
				48	12	38	2		76	6	19					72	
2N/ 4W-19A 1 S	--	6.7	95	5	4	8	1	0	34	2	5	6.7	0.2	0.01	--	83	29
1-26-66				0.25	0.33	0.35	0.03		0.56	0.04	0.14	0.11					
				26	34	36	3		66	5	16	13				49	
	--	6.7	122	7	6	8	1	0	46	5	9	7.8	0.1	0	--	82	42
7-21-66				0.35	0.49	0.35	0.03		0.75	0.10	0.25	0.13					
				29	40	29	2		61	8	20	11				67	
2N/ 4W-31M 1 S	65	7.9	553	62	28	13	3	--	276	49	12	1.5	0.6	0.01	--	348	270
9-28-66				3.09	2.30	0.57	0.08		4.52	1.02	0.34	0.02					
				51	38	9	1		77	17	6					305	
2N/ 4W-32CS2 S	65	8.2	262	31	7	10	4	0	120	28	6	1.4	0.2	0	--	160	107
4-27-66				1.55	0.58	0.43	0.10		1.97	0.58	0.17	0.02					
				58	22	16	4		72	21	6	1				147	
2N/ 4W-34K 1 S	63	8.1	482	48	21	19	3	--	187	69	13	5.0	0.4	0	--	276	207
12-28-65				2.40	1.73	0.83	0.08		3.06	1.44	0.37	0.08					
				48	34	16	2		62	29	7	2				270	
2N/ 4W-34K 2 S	62	8.2	434	44	18	17	3	--	181	48	14	6.0	0.5	0	--	156	184
12-28-65				2.20	1.48	0.74	0.08		2.97	1.00	0.39	0.10					
				49	33	16	2		67	22	9	2				239	
2N/ 5W-26G 1 S	47	8.2	370	49	11	6	4	--	167	33	11	1.0	0.4	0	--	199	168
12-28-65				2.45	0.90	0.26	0.10		2.74	0.69	0.31	0.02					
				66	24	7	3		73	18	8	1				198	
SAN TIMOTEO HYDRO SUBUNIT Y01F0																	
YUCAIPA HYDRO SUBAREA Y01F1																	
2S/ 2W- 4L 1 S	--	7.8	460	55	14	21	2	0	231	36	8	6.1	0.6	0	--	270	195
2-24-66				2.74	1.15	0.91	0.05		3.79	0.75	0.23	0.10					
				56	24	19	1		78	15	5	2				256	
2S/ 2W- 8K 2 S	--	7.8	435	30	9	52	2	0	194	33	19	2.5	0.6	0.03	--	257	112
2-24-66				1.50	0.74	2.26	0.05		3.18	0.69	0.54	0.04					
				33	16	50	1		71	16	12	1				243	
SAN TIMOTEO HYDRO SUBAREA Y01F2																	
2S/ 1W-30E 1 S	68	7.2	411	39	18	18	1	0	204	8	18	4	0.7	0	--	207	172
9-23-66				1.95	1.48	0.78	0.03		3.34	0.17	0.51	0.06					
				46	35	18	1		82	4	13	1				207	
2S/ 1W-30E 1 S	64	8.0	402	42	16	17	1	0	208	9	19	3	0.6	0	--	217	171
3-29-66				2.10	1.32	0.74	0.03		3.41	0.19	0.54	0.05					
				50	32	18	1		81	5	13	1				210	
2S/ 2W-25D 1 S	72	8.0	460	42	19	26	1	0	237	12	17	6	0.5	0	--	230	183
9-23-66				2.10	1.56	1.13	0.03		3.88	0.25	0.48	0.10					
				44	32	23	1		82	5	10	2				240	
	68	8.0	489	45	20	31	1	0	252	17	20	5	0.6	0	--	264	195
3-29-66				2.25	1.64	1.35	0.03		4.13	0.35	0.56	0.08					
				43	31	26	1		81	7	11	2				264	
2S/ 2W-35D 1 S	72	8.1	380	29	7	40	0	0	183	13	19	0.8	1.3	0.01	--	188	102
9-23-66				1.45	0.58	1.74			3.00	0.27	0.54	0.01					
				38	15	46			79	7	14					200	
	70	8.0	380	29	6	43	1	0	186	13	16	0	1.3	0	--	182	97
10- 1-65				1.45	0.49	1.87	0.03		3.05	0.27	0.45						
				38	13	49	1		81	7	12					201	
	64	7.8	378	30	6	43	0	0	182	14	20	0.0	1.2	0	--	192	100
3-29-66				1.50	0.49	1.87			2.98	0.29	0.56						
				39	13	48			78	8	15					204	
3S/ 1W- 9Q 1 S	76	7.6	321	30	10	21	2	0	165	2	18	7	0.7	0.01	--	167	116
9-23-66				1.50	0.82	0.91	0.05		2.70	0.04	0.51	0.11					
				46	25	28	2		80	1	15	3				172	
	60	8.2	325	30	9	23	2	0	162	1	17	6	0.6	0	--	179	112
3-29-66				1.50	0.74	1.00	0.05		2.66	0.02	0.48	0.10					
				46	22	30	2		82	1	15	3				168	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	FCX10	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
SANTA ANA RIVER HYDRO UNIT Y0100																	
SAN TIMOTEO HYDRO SUBUNIT Y01F0																	
CHERRY VALLEY HYDRO SUBAREA Y01F3																	
2S/ 1W-27B 1 S	65	8.0	553	50	21	37	1	0	240	56	21	9	0.9	0.03	--	320	212
9-23-66				2.50	1.73	1.61	0.03		3.93	1.17	0.59	0.15					
				43	29	27	1		67	20	10	3				314	
	63	8.2	553	51	20	37	1	0	240	56	20	5	0.9	0.03	--	327	209
10- 8-65				2.54	1.64	1.61	0.03		3.93	1.17	0.56	0.08					
				44	28	28	1		68	20	10	1				309	
2S/ 2W-14M 1 S	76	8.0	378	16	5	55	1	0	154	15	28	4	0.7	0.04	--	182	61
9-23-66				0.80	0.41	2.39	0.03		2.52	0.31	0.79	0.06					
				22	11	66	1		68	8	21	2				200	
	--	8.1	392	20	7	54	1	0	164	17	25	5.0	0.7	0.03	--	210	79
3-15-66				1.00	0.58	2.35	0.03		2.69	0.35	0.71	0.08					
				25	15	59	1		70	9	19	2				210	
	76	8.4	432	28	7	54	1	0	179	19	32	5	0.7	0.02	--	234	99
3-29-66				1.40	0.58	2.35	0.03		2.93	0.40	0.90	0.08					
				32	13	54	1		68	9	21	2				235	
CHICKEN HILL HYDRO SUBAREA Y01F4																	
2S/ 2W-15A 4 S	--	7.8	514	36	13	56	2	0	189	66	18	9.0	1.9	0.04	--	291	144
3-15-66				1.80	1.07	2.43	0.05		3.10	1.37	0.51	0.15					
				34	20	45	1		60	27	10	3				295	
GATEWAY HYDRO SUBAREA Y01F5																	
1S/ 1W-30E 1 S	--	7.9	600	64	12	54	2	0	284	61	12	10.0	0.6	0.08	--	374	209
2-24-66				3.19	0.99	2.35	0.05		4.65	1.27	0.34	0.16					
				48	15	36	1		72	20	5	2				355	
1S/ 2W-25J 1 S	--	7.7	584	54	14	53	2	0	272	58	11	8.2	0.7	0.08	--	340	192
2-24-66				2.69	1.15	2.30	0.05		4.46	1.21	0.31	0.13					
				43	19	37	1		73	20	5	2				335	
SOUTH MESA HYDRO SUBAREA Y01F7																	
1S/ 1W-31H 1 S	--	7.4	482	54	15	27	2	0	231	34	17	9.2	0.5	0	--	262	196
2-24-66				2.69	1.23	1.17	0.05		3.79	0.71	0.48	0.15					
				52	24	23	1		74	14	9	3				272	
2S/ 2W-11F 1 S	--	8.1	479	55	15	27	2	0	250	29	9	7.1	0.6	0.02	--	284	199
2-24-66				2.74	1.23	1.17	0.05		4.10	0.60	0.25	0.11					
				53	24	23	1		81	12	5	2				268	
2S/ 2W-12M 1 S	--	7.9	454	28	12	53	1	0	184	44	21	6.3	1.5	0.02	--	270	120
2-24-66				1.40	0.99	2.30	0.03		3.02	0.92	0.59	0.10					
				30	21	49	1		65	20	13	2				257	
2S/ 2W-14C 1 S	--	7.7	514	43	15	47	1	0	221	48	18	7.7	1.5	0.01	--	302	169
2-24-66				2.15	1.23	2.04	0.03		3.62	1.00	0.51	0.12					
				39	23	37	1		69	19	10	2				290	
	--	7.8	484	38	12	48	2	0	199	49	19	10.3	1.8	0.04	--	289	145
3-15-66				1.90	0.99	2.09	0.05		3.26	1.02	0.54	0.17					
				38	20	42	1		65	20	11	3				278	
2S/ 2W-14C 2 S	--	7.9	506	38	14	50	1	0	201	59	18	8.2	1.7	0.04	--	300	153
2-24-66				1.90	1.15	2.17	0.03		3.29	1.23	0.51	0.13					
				36	22	41	1		64	24	10	3				289	
	--	7.9	495	37	12	53	2	0	194	56	20	9.3	1.8	0.04	--	287	142
3-15-66				1.85	0.99	2.30	0.05		3.18	1.17	0.56	0.15					
				36	19	44	1		63	23	11	3				286	
2S/ 2W-14D 1 S	--	7.9	543	40	13	59	2	0	216	56	25	7.3	1.9	0.05	--	297	154
3-15-66				2.00	1.07	2.57	0.05		3.54	1.17	0.71	0.12					
				35	19	45	1		64	21	13	2				310	
NOBLE CREEK HYDRO SUBAREA Y01F9																	
2S/ 1W- 1E 1 S	47	7.4	418	49	16	12	2	0	195	32	11	5	0.5	0	--	239	189
3-22-66				2.45	1.32	0.52	0.05		3.20	0.67	0.31	0.08					
				56	30	12	1		75	16	7	2				223	
2S/ 1W- 2J 1 S	58	8.1	428	48	19	14	2	0	210	29	12	8	0.5	0.01	--	242	198
9-23-66				2.40	1.56	0.61	0.05		3.44	0.60	0.34	0.13					
				52	34	13	1		76	13	6	3				236	
2S/ 1W- 2K 5 S	58	8.1	502	57	20	22	1	0	228	60	12	4	0.6	0.02	--	300	224
9-23-66				2.84	1.64	0.96	0.03		3.74	1.25	0.34	0.06					
				52	30	18	1		69	23	6	1				289	
2S/ 1W- 2J 1 S	56	7.9	421	49	17	14	1	0	215	26	11	5	0.5	0.03	--	239	193
10- 9-65				2.45	1.40	0.61	0.03		3.52	0.54	0.31	0.08					
				55	31	14	1		79	12	7	2				229	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN	MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE								MILLIGRAMS PER LITER				
SANTA ANA RIVER HYDRO UNIT Y0100																	
NOBIE CREEK HYDRO SUBAREA Y01F9																	
2S/ 1W-10J 1 S	60	8.0	490	56	19	17	1	0	218	54	12	5	0.4	0.05	--	294	218
10- 6-65				2.79	1.56	0.74	0.03		3.57	1.12	0.34	0.08					
				54	30	14	1		70	22	7	2				272	
	59	7.9	486	56	19	18	1	0	218	51	12	4	0.5	0	--	281	218
3-22-66				2.79	1.56	0.78	0.03		3.57	1.06	0.34	0.06					
				54	30	15	1		71	21	7	1				269	
2S/ 1W-22H 2 S	63	8.1	472	48	20	0	2	0	2	36	23	5	0.6	0.02	--	271	202
9-23-66				2.40	1.64		0.05		0.03	0.75	0.65	0.08					
				59	40		1		2	50	43	5				136	
2S/ 1W-22A 3 S	60	8.0	399	44	14	15	1	0	178	29	13	6	0.6	0	--	236	168
3-24-66				2.20	1.15	0.65	0.03		2.92	0.60	0.37	0.10					
				55	29	16	1		73	15	9	3				210	
2S/ 1W-22H 1 S	65	8.1	500	55	19	22	2	0	223	33	27	3	0.6	0	--	284	215
3-22-66				2.74	1.56	0.96	0.05		3.65	0.69	0.76	0.05					
				52	29	18	1		71	13	15	1				271	
2S/ 1W-22H 2 S	61	8.2	497	53	18	23	2	0	210	39	26	4	0.6	0.05	--	288	206
10- 8-65				2.64	1.48	1.00	0.05		3.44	0.81	0.73	0.06					
				51	29	19	1		68	16	14	1				269	
	61	7.5	475	52	17	22	2	0	208	36	23	3	0.6	0	--	273	200
3-22-66				2.59	1.40	0.96	0.05		3.41	0.75	0.65	0.05					
				52	28	19	1		70	15	13	1				258	
2S/ 2W- 1E 2 S	54	7.8	408	46	17	13	2	0	196	30	11	4	0.5	0.02	--	224	185
10- 9-65				2.30	1.40	0.57	0.05		3.21	0.62	0.31	0.06					
				53	32	13	1		76	15	7	1				220	
SAN BERNARDINO MTN HYDRO SUBUNIT Y01G0																	
BEAR VALLEY HYDRO SUBAREA Y01G1																	
2N/ 1W- 1L 1 S	--	7.4	454	74	13	9	2	0	294	5	5	0	0.1	0.01	--	194	238
7-26-66				3.69	1.07	0.39	0.05		4.82	0.10	0.14						
				71	21	8	1		95	2	3					253	
BALDWIN HYDRO SUBAREA Y01G3																	
2N/ 2E-19A 1 S	--	6.8	297	31	15	12	2	0	170	9	6	1.1	0.2	0	--	169	139
12-28-65				1.55	1.23	0.52	0.05		2.79	0.19	0.17	0.02					
				46	37	16	1		88	6	5	1				160	
SAN JACINTO VALLEY HYDRO UNIT Y0200																	
PERRIS HYDRO SUBUNIT Y02A0																	
PERRIS VALLEY HYDRO SUBAREA Y02A1																	
3S/ 3W-29F 1 S	80	7.7	578	22	4	82	2	0	87	15	112	9	1.2	0.76	--	267	72
3-22-66				1.10	0.33	3.57	0.05		1.43	0.31	3.16	0.15					
				22	7	71	1		28	6	63	3				291	
4S/ 3W- 6Q 1 S	74	8.3	621	25	4	88	2	0	70	23	124	13	1.0	0.62	--	304	79
3-22-66				1.25	0.33	3.83	0.05		1.15	0.48	3.50	0.21					
				23	6	70	1		22	9	66	4				315	
4S/ 3W- 7J 1 S	72	7.4	1320	97	27	110	3	0	133	39	298	34	0.5	0.48	--	942	353
3-22-66				4.84	2.22	4.78	0.08		2.18	0.81	8.40	0.55					
				41	19	40	1		18	7	70	5				674	
4S/ 3W-13Q 1 S	76	7.9	784	51	13	73	4	0	131	13	159	3	0.3	0.53	--	470	181
3-23-66				2.54	1.07	3.17	0.10		2.15	0.27	4.48	0.05					
				37	16	46	1		31	4	64	1				381	
4S/ 3W-16N 1 S	74	7.7	1103	88	22	87	4	0	138	37	229	20	0.5	0.38	--	707	310
3-23-66				4.39	1.81	3.78	0.10		2.26	0.77	6.46	0.32					
				44	18	38	1		23	8	66	3				556	
4S/ 3W-17J 1 S	72	7.5	2068	174	44	156	4	0	201	53	507	18	0.5	0.86	--	1519	615
3-23-66				8.68	3.62	6.78	0.10		3.29	1.10	14.30	0.29					
				45	19	35	1		17	6	75	2				1056	
4S/ 3W-21F 1 S	74	7.6	1906	180	35	121	5	0	88	28	512	22	0.7	0.36	--	1470	593
3-23-66				8.98	2.88	5.26	0.13		1.44	0.58	14.44	0.35					
				52	17	30	1		9	3	86	2				947	
4S/ 3W-26F 1 S	78	7.5	6601	498	112	698	12	0	109	331	1995	7	0.4	2.10	--	4254	1704
3-23-66				24.85	9.21	30.35	0.31		1.79	6.89	56.26	0.11					
				38	14	47			3	11	86					3709	
4S/ 3W-26J 1 S	80	8.0	1763	67	4	253	4	0	58	42	468	2	0.5	0.47	--	1040	184
3-23-66				3.34	0.33	11.00	0.10		0.95	0.87	13.20	0.03					
				23	2	74	1		6	6	88					869	
5S/ 2W-17C 1 S	68	7.8	698	54	16	61	4	0	223	31	66	36	0.6	0.06	--	426	201
3-23-66				2.69	1.32	2.65	0.10		3.65	0.65	1.86	0.58					
				40	20	39	1		54	10	28	9				378	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
SAN JACINTO VALLEY HYDRO UNIT Y0200																	
PERRIS HYDRO SUBUNIT Y02A0																	
MENIFEE HYDRO SUBAREA Y02A2																	
5S/ 3W-21D 1 S	78	7.7	2688	233	104	120	4	0	166	151	686	6	0.4	0.23	--	2270	1010
3-23-66				11.63	8.55	5.22	0.10		2.72	3.14	19.35	0.10					
				46	34	20			11	12	76					1386	
5S/ 3W-21D 2 S	72	7.7	1048	92	22	68	4	0	122	66	198	27	0.3	0.03	--	724	320
3-23-66				4.59	1.81	2.96	0.10		2.00	1.37	5.58	0.44					
				49	19	31	1		21	15	59	5				537	
6S/ 2W- 6P 1 S	76	7.2	1253	103	34	107	5	0	339	149	129	10	0.6	0.06	--	773	397
3-23-66				5.14	2.80	4.65	0.13		5.56	3.10	3.64	0.16					
				40	22	37	1		45	25	29	1				704	
6S/ 3W-16C 1 S	70	7.9	1760	162	55	105	3	0	326	104	315	51	0.6	0.07	--	1228	631
3-23-66				8.08	4.52	4.57	0.08		5.34	2.17	8.88	0.82					
				47	26	26			31	13	52	5				956	
6S/ 3W-20B 1 S	60	7.6	613	49	18	42	2	0	188	31	65	21	0.4	0.03	--	351	197
3-23-66				2.45	1.48	1.83	0.05		3.08	0.65	1.83	0.34					
				42	25	31	1		52	11	31	6				321	
WINCHESTER HYDRO SUBAREA Y02A3																	
5S/ 1W-20B 1 S	76	7.8	957	90	17	80	5	0	170	216	72	15	0.5	0.05	--	616	295
3-24-66				4.49	1.40	3.48	0.13		2.79	4.50	2.03	0.24					
				47	15	37	1		29	47	21	3				579	
5S/ 2W- 3M 1 S	68	7.6	1024	79	28	85	6	0	315	42	119	34	0.5	0.20	--	603	312
3-24-66				3.94	2.30	3.70	0.15		5.16	0.87	3.36	0.55					
				39	23	37	1		52	9	34	6				549	
5S/ 2W-19N 1 S	82	7.4	740	53	13	67	3	0	119	39	115	42	0.3	0.02	--	484	186
3-23-66				2.64	1.07	2.91	0.08		1.95	0.81	3.24	0.68					
				39	16	43	1		29	12	49	10				391	
LAKEVIEW HYDRO SUBAREA Y02A4																	
4S/ 2W- 9M 1 S	74	8.0	841	41	13	108	3	0	123	109	125	4	0.5	1.34	--	497	156
3-25-66				2.05	1.07	4.70	0.08		2.02	2.27	3.53	0.06					
				26	14	59	1		26	29	45	1				465	
HEMET HYDRO SUBAREA Y02A5																	
4S/ 1W-31D 2 S	72	7.6	1713	96	30	218	8	0	137	299	291	3	0.9	0.89	--	1006	363
9-21-66				4.79	2.47	9.48	0.20		2.25	6.23	8.21	0.05					
				28	15	56	1		13	37	49					1014	
4S/ 1W-31D 2 S	70	7.7	1655	92	22	210	6	0	138	271	270	3.0	0.8	1.00	--	987	320
3-25-66				4.59	1.81	9.13	0.15		2.26	5.64	7.61	0.05					
				29	12	58	1		15	36	49					944	
4S/ 2W-11C 1 S	72	7.9	729	38	8	100	5	0	135	144	62	4	0.7	0.37	--	414	128
9-21-66				1.90	0.66	4.35	0.13		2.21	3.00	1.75	0.06					
				27	9	62	2		31	43	25	1				428	
5S/ 1W-21A 1 S	76	7.9	705	60	12	62	5	0	162	91	70	15.0	0.5	0.04	--	423	199
3-24-66				2.99	0.99	2.70	0.13		2.66	1.89	1.97	0.24					
				44	15	40	2		39	28	29	4				395	
5S/ 1W-27L 1 S	58	8.0	711	47	12	73	3	0	155	44	91	34.0	0.5	0.10	--	423	167
3-24-66				2.35	0.99	3.17	0.08		2.54	0.92	2.57	0.55					
				36	15	48	1		39	14	39	8				381	
6S/ 1W- 4J 1 S	96	8.0	591	42	16	63	3	0	182	68	52	21	0.5	0.07	--	371	171
9-15-66				2.10	1.32	2.74	0.08		2.98	1.42	1.47	0.34					
				34	21	44	1		48	23	24	5				355	
	76	8.0	617	46	12	59	2	0	174	64	52	18.0	0.4	0.10	--	357	165
3-24-66				2.30	0.99	2.57	0.05		2.85	1.33	1.47	0.29					
				39	17	43	1		48	22	25	5				339	
SAN JACINTO HYDRO SUBUNIT Y02B0																	
SAN JACINTO HYDRO SUBAREA Y02B1																	
5S/ 1E- 5N 2 S	72	8.1	341	35	4	27	3	0	145	23	18	2.0	0.3	0	--	205	104
3-24-66				1.75	0.33	1.17	0.08		2.38	0.48	0.51	0.03					
				53	10	35	2		70	14	15	1				184	
5S/ 1E- 9J 1 S	66	8.1	377	42	4	27	3	0	162	27	18	2	0.4	0	--	214	122
3-24-66				2.10	0.33	1.17	0.08		2.66	0.56	0.51	0.03					
				57	9	32	2		71	15	14	1				203	
	66	8.1	348	31	5	39	2	0	146	26	22	3.5	0.5	0	--	191	98
9-15-66				1.55	0.41	1.70	0.05		2.39	0.54	0.62	0.06					
				42	11	46	1		66	15	17	2				201	
	64	7.8	393	37	4	37	3	0	165	29	18	1	0.5	0	--	200	109
10- 7-65				1.85	0.33	1.61	0.08		2.70	0.60	0.51	0.02					
				48	9	42	2		70	16	13	1				211	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARDNESS CACO3
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
SAN JACINTO VALLEY HYDRO UNIT Y0200																	
SAN JACINTO HYDRO SUBUNIT Y02B0																	
SAN JACINTO HYDRO SUBAREA Y02B1																	
5S/ 1E-14G 1 S	85	8.0	1143	30	13	201	5	0	192	306	60	9	4.8	0.40	--	682	129
9-15-66				1.50	1.07	8.74	0.13		3.15	6.37	1.69	0.15					
				13	9	76	1		28	56	15	1				724	
	76	8.0	573	30	12	75	3	0	186	36	31	7.0	2.0	0.17	--	320	125
3-24-66				1.50	0.99	3.26	0.08		3.05	0.75	0.87	0.11					
				26	17	56	1		64	16	18	2				288	
5S/ 1E-17Q 2 S	68	8.1	1111	110	29	79	9	0	220	241	77	35	0.9	0.08	--	728	394
3-24-66				5.49	2.38	3.43	0.23		3.61	5.02	2.17	0.56					
				48	21	30	2		32	44	19	5				689	
	70	8.0	1152	110	33	79	7	0	222	244	78	43	1.0	0.06	--	719	410
9-15-66				5.49	2.71	3.43	0.18		3.64	5.08	2.20	0.69					
				46	23	29	2		31	44	19	6				704	
	68	8.1	1111	110	29	79	9	0	220	241	77	35.0	0.9	0.08	--	728	394
3-24-66				5.49	2.38	3.43	0.23		3.61	5.02	2.17	0.56					
				48	21	30	2		32	44	19	5				689	
5S/ 1E-20D 1 S	70	7.9	996	88	25	73	8	0	201	166	89	35	0.8	0.05	--	623	323
3-24-66				4.39	2.06	3.17	0.20		3.29	3.46	2.51	0.56					
				45	21	32	2		34	35	26	6				584	
	70	8.0	1043	95	34	81	6	0	215	187	98	47	0.8	0.04	--	662	377
9-15-66				4.74	2.80	3.52	0.15		3.52	3.89	2.76	0.76					
				42	25	31	1		32	36	25	7				655	
	70	7.9	996	88	25	73	8	0	201	166	89	35.0	0.8	0.05	--	623	323
3-24-66				4.39	2.06	3.17	0.20		3.29	3.46	2.51	0.56					
				45	21	32	2		34	35	26	6				584	
2S/ 1W-34Q 1 S	63	8.4	403	41	18	19	1	12	195	11	13	4	0.4	0.04	--	225	177
10- 8-65				2.05	1.48	0.83	0.03	0.40	3.20	0.23	0.37	0.06					
				47	34	19	1	9	75	5	9	1				215	
3S/ 1W- 3K 3 S	64	7.8	381	36	17	20	2	0	208	10	13	1	0.4	0	--	208	160
9-23-66				1.80	1.40	0.87	0.05		3.41	0.21	0.37	0.02					
				44	34	21	1		85	5	9					202	
3S/ 1W- 3K 1 S	66	8.0	381	39	14	21	2	0	203	10	12	2	0.3	0	--	217	155
3-22-66				1.95	1.15	0.91	0.05		3.33	0.21	0.34	0.03					
				48	28	22	1		85	5	9	1				200	
3S/ 1W-12E 2 S	63	7.7	313	22	14	23	1	0	158	0	18	8	0.8	0.01	--	159	113
9-23-66				1.10	1.15	1.00	0.03		2.59		0.51	0.13					
				34	35	30	1		80		16	4				164	
3S/ 2W- 7P 1 S	84	8.3	963	6	3	206	3	8	355	17	95	14	3.3	0.54	--	515	28
9-21-66				0.30	0.25	8.96	0.08	0.27	5.82	0.35	2.68	0.23					
				3	3	93	1	3	62	4	29	2				530	
	66	8.6	960	7	2	211	0	17	334	19	95	14	3.2	0.55	--	517	26
3-25-66				0.35	0.16	9.17		0.57	5.47	0.40	2.68	0.23					
				4	2	95		6	59	4	29	2				533	
4S/ 1W-16C 1 S	76	7.6	388	30	7	40	3	0	199	1	18	5	0.8	0	--	168	104
9-21-66				1.50	0.58	1.74	0.08		3.26	0.02	0.51	0.08					
				38	15	45	2		84	1	13	2				203	
4S/ 1W-36G 1 S	76	7.7	424	37	6	42	3	0	148	51	24	8	0.5	0.02	--	249	117
9-21-66				1.85	0.49	1.83	0.08		2.43	1.06	0.68	0.13					
				44	12	43	2		57	25	16	3				244	
5S/ 1W- 1C 1 S	68	7.7	385	42	6	31	3	0	168	33	19	4	0.4	0.02	--	217	130
9-21-66				2.10	0.49	1.35	0.08		2.75	0.69	0.54	0.06					
				52	12	34	2		68	17	13	1				221	
	66	8.0	403	44	5	32	4	0	168	36	19	1.0	0.3	0	--	226	131
3-24-66				2.20	0.41	1.39	0.10		2.75	0.75	0.54	0.02					
				54	10	34	2		68	18	13					224	
5S/ 1W- 9J 1 S	66	8.1	377	42	4	27	3	0	162	27	18	2.0	0.4	0	--	214	122
3-24-66				2.10	0.33	1.17	0.08		2.66	0.56	0.51	0.03					
				57	9	32	2		71	15	14	1				203	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
				MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
SAN JACINTO VALLEY HYDRO UNIT Y0200																	
ELSINORE HYDRO SUBUNIT Y02C0																	
ELSINORE HYDRO SUBAREA Y02C1																	
6S/ 4W- 7J 1 S	--	8.0	1733	15	24	329	2	0	378	136	271	16.0	2.4	0.92	--	970	136
3-29-66				0.75	1.97	14.30	0.05		6.20	2.83	7.64	0.26					
				4	12	84			37	17	45	2				982	
6S/ 4W- 7J 3 S	--	7.8	1786	86	22	271	3	0	522	58	291	1.0	0.7	0.42	--	1009	305
12-13-65				4.29	1.81	11.78	0.08		8.56	1.21	8.21	0.02					
				24	10	66			48	7	46					990	
6S/ 4W-18G 2 S	--	9.1	552	6	0	110	0	14	87	81	53	2	0.7	0.18	--	311	15
12-13-65				0.30		4.78		0.47	1.43	1.69	1.49	0.03					
				6		94		9	28	33	29	1				310	
	--	9.2	514	4	1	102	1	14	90	74	45	1.0	0.8	0.13	--	285	14
3-29-66				0.20	0.08	4.43	0.03	0.47	1.48	1.54	1.27	0.02					
				4	2	93	1	10	31	32	27					287	
SAN JUAN HYDRO UNIT Z0100																	
LAGUNA HYDRO SUBUNIT Z01A0																	
ALISO HYDRO SUBAREA Z01A3																	
6S/ 7W- 4E 1 S	--	7.9	1990	63	17	360	2	0	348	294	284	0	6.0	2.50	10	1231	227
4-21-66				3.14	1.40	15.65	0.05		5.70	6.12	8.01						
				16	7	77			29	31	40					1210	
6S/ 7W- 7R 1 S	--	7.5	1820	242	21	147	5	0	303	642	91	0	0.4	0.27	32	1382	691
10-21-65				12.08	1.73	6.39	0.13		4.97	13.37	2.57						
				59	9	31	1		24	64	12					1330	
SAN JUAN HYDRO SUBUNIT Z01B0																	
Z01B0																	
6S/ 8W-26B 2 S	--	7.7	1370	--	--	--	--	0	336	--	138	--	--	--	--		
10-21-65									5.51		3.89						
6S/ 8W-26C 1 S	--	7.3	3230	325	105	295	5	0	401	1059	313	98	0.4	0.25	20	2539	1244
10-21-65				16.22	8.64	12.83	0.13		6.57	22.05	8.83	1.58					
				43	23	34			17	56	23	4				2418	
7S/ 7W-19D 2 S	--	7.6	678	--	--	--	--	0	210	--	30	--	--	--	--		
10-14-65									3.44		0.85						
	--	7.4	716	--	--	--	--	0	214	--	27	--	--	--	--		
5- 3-66									3.51		0.76						
7S/ 7W-32R 1 S	--	7.6	1410	75	20	209	3	0	303	225	175	0	0.8	0.70	29	852	269
10-15-65				3.74	1.64	9.09	0.08		4.97	4.68	4.94						
				26	11	62	1		34	32	34					886	
	--	7.7	1390	--	--	--	--	0	296	--	158	--	--	--	--		
4-21-66									4.85		4.46						
7S/ 7W-36A 1 S	--	7.3	764	--	--	--	--	0	208	--	62	--	--	--	--		
10-15-65									3.41		1.75						
	--	7.6	581	53	14	50	1	0	169	82	39	11	0.4	0.08	31	394	190
4-21-66				2.64	1.15	2.17	0.03		2.77	1.71	1.10	0.18					
				44	19	36	1		48	30	19	3				364	
7S/ 8W-14H 1 S	--	8.1	3570	315	104	400	32	19	523	1142	359	12	--	--	20	2784	1214
5- 3-66				15.72	8.55	17.39	0.82	0.63	8.57	23.78	10.12	0.19					
				37	20	41	2	1	20	55	23					2660	
7S/ 8W-16Q 2 S	--	8.5	2030	--	--	--	--	34	557	--	293	--	--	--	--		
10-21-65								1.13	9.13		8.26						
7S/ 8W-25B 3 S	--	7.2	833	--	--	--	--	0	226	--	45	--	--	--	--		
10-14-65									3.70		1.27						
	--	7.3	696	86	16	40	2	0	202	142	27	6	0.3	0.05	22	484	281
4-20-66				4.29	1.32	1.74	0.05		3.31	2.96	0.76	0.10					
				58	18	24	1		46	42	11	1				441	
7S/ 8W-25N 1 S	--	7.3	1060	79	23	124	2	0	283	212	56	16	0.4	0.15	27	704	292
4-20-66				3.94	1.89	5.39	0.05		4.64	4.41	1.58	0.26					
				35	17	48			43	40	15	2				679	
7S/ 8W-25N 2 S	--	7.2	801	100	20	40	2	0	234	157	38	13	--	--	--	543	332
5- 6-66				4.99	1.64	1.74	0.05		3.84	3.27	1.07	0.21					
				59	19	21	1		46	39	13	3				485	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARDNESS CACO 3
SAN JUAN HYDRO SUBUNIT				Z01B0				SAN JUAN HYDRO UNIT			Z0100						
7S/ 8W-32L 2 S	--	7.6	5080	--	--	--	--	0	447	--	774	--	--	--	--		
10-13-65									7.33		21.83						
7S/ 8W-36C 3 S	70	7.2	1950	220	46	166	3	0	304	580	177	21	0.2	0.13	26	1454	739
10-21-65				10.98	3.78	7.22	0.08		4.98	12.08	4.99	0.34					
				50	17	33			22	54	22	2				1389	
	--	7.2	807	98	19	43	2	0	221	167	40	15	0.3	0.05	26	554	323
5- 6-66				4.89	1.56	1.87	0.05		3.62	3.48	1.13	0.24					
				58	19	22	1		43	41	13	3				519	
7S/ 8W-36L 2 S	--	7.3	2070	123	35	310	3	0	333	533	188	21	0.3	0.17	25	1456	451
4-20-66				6.14	2.88	13.48	0.08		5.46	11.10	5.30	0.34					
				27	13	60			25	50	24	2				1402	
7S/ 8W-36P 1 S	--	7.2	2860	306	68	270	4	0	330	851	328	23	0.4	0.19	38	2107	1044
3-11-66				15.27	5.59	11.74	0.10		5.41	17.72	9.25	0.37					
				47	17	36			17	54	28	1				2051	
	--	7.3	1920	166	38	208	2	0	313	502	169	22	0.3	0.16	27	1366	571
4-26-66				8.28	3.13	9.04	0.05		5.13	10.45	4.77	0.35					
				40	15	44			25	50	23	2				1288	
8S/ 7W- 5B 1 S	--	7.6	1330	87	22	158	3	0	262	255	138	0	0.7	0.32	28	860	308
10-15-65				4.34	1.81	6.87	0.08		4.29	5.31	3.89						
				33	14	52	1		32	39	29					821	
	--	7.6	1240	80	20	160	3	0	243	251	120	0	0.1	0.36	27	845	282
4-21-66				3.99	1.64	6.96	0.08		3.98	5.23	3.38						
				31	13	55	1		32	42	27					781	
8S/ 7W- 6H 1 S	--	7.2	2360	266	65	195	5	0	309	774	237	0	--	0.30	27	1823	932
10-15-65				13.27	5.35	8.48	0.13		5.06	16.11	6.68						
				49	20	31			18	58	24					1721	
8S/ 7W- 6H 1 S	--	7.6	1220	97	27	114	5	0	136	335	117	0	0.4	0.16	8	826	353
4-21-66				4.84	2.22	4.96	0.13		2.23	6.97	3.30						
				40	18	41	1		18	56	26					770	
8S/ 8W- 1L 1 S	--	7.2	1850	246	48	98	3	0	293	518	183	8	0.4	0.12	25	1342	812
10-14-65				12.28	3.95	4.26	0.08		4.80	10.78	5.16	0.13					
				60	19	21			23	52	25	1				1274	
	--	7.1	1880	--	--	--	--	0	286	--	188	--	--	--	--		
5- 3-66									4.69		5.30						
8S/ 8W-12L 4 S	--	7.5	1750	--	--	--	--	0	370	--	148	--	--	--	--		
10-14-65									6.06		4.17						
	--	7.6	1640	--	--	--	--	0	350	--	134	--	--	--	--		
4-21-66									5.74		3.78						
8S/ 8W-13D 1 S	--	7.7	2540	293	77	200	5	0	454	787	234	3	0.6	0.35	27	1968	1048
10-15-65				14.62	6.33	8.70	0.13		7.44	16.39	6.60	0.05					
				49	21	29			24	54	22					1850	
	--	7.3	2050	247	56	168	4	0	393	583	179	0	0.3	0.25	25	1542	848
4-21-66				12.33	4.61	7.30	0.10		6.44	12.14	5.05						
				51	19	30			27	51	21					1456	
8S/ 8W-14H 2 S	--	7.2	1820	--	--	--	--	0	355	--	179	--	--	--	--		
10-14-65									5.82		5.05						
8S/ 8W-14H 4 S	--	7.5	2010	--	--	--	--	0	401	--	173	--	--	--	--		
4-21-66									6.57		4.88						
8S/ 8W-23A 4 S	--	7.3	2750	331	82	208	5	0	395	894	294	0	0.5	0.20	24	2170	1164
10-15-65				16.52	6.74	9.04	0.13		6.47	18.61	8.29						
				51	21	28			19	56	25					2033	
	--	7.5	2670	--	--	--	--	0	396	--	272	--	--	--	--		
4-21-66									6.49		7.67						

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER TDS 180C 105C COMP	HARD-NESS CACO 3
				CA	MG	NA	K	CO .3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2		
						SAN LUIS REY HYDRO UNIT					Z0300						
BONSALL HYDRO SUBUNIT				Z03A0													
MISSION HYDRO SUBAREA					Z03A1												
10S/ 4W-33G 1 S	74	8.0	1117	63	31	105	10	0	183	41	232	4	0.9	0.24	--	670	285
10-19-65				3.14	2.55	4.57	0.26		3.00	0.85	6.54	0.06					
				30	24	43	2		29	8	63	1				577	
10S/ 4W-33M 1 S	68	7.6	2907	46	48	500	4	0	315	177	682	3	0.9	0.16	--	1620	313
10-19-65				2.30	3.95	21.74	0.10		5.16	3.69	19.23	0.05					
				8	14	77			18	13	68					1616	
10S/ 4W-35N 1 S	--	7.4	947	51	28	92	9	0	198	31	180	9	0.5	0.12	--	560	242
10-19-65				2.54	2.30	4.00	0.23		3.25	0.65	5.08	0.15					
				28	25	44	3		36	7	56	2				498	
10S/ 4W-35P 1 S	--	8.3	1014	37	14	150	2	8	180	37	200	1	0.3	0.32	--	550	150
10-19-65				1.85	1.15	6.52	0.05	0.27	2.95	0.77	5.64	0.02					
				19	12	68	1	3	31	8	58					538	
10S/ 4W-35R 3 S	78	7.8	2296	114	97	200	8	0	103	238	561	3	0.3	0.08	--	1540	684
10-18-65				5.69	7.98	8.70	0.20		1.69	4.96	15.82	0.05					
				25	35	39	1		8	22	70					1272	
11S/ 4W- 2D 1 S	69	8.2	2328	174	84	184	7	0	299	209	509	2	0.4	0.14	--	1685	780
10-18-65				8.68	6.91	8.00	0.18		4.90	4.35	14.35	0.03					
				37	29	34	1		21	18	61					1317	
11S/ 4W- 2L 1 S	--	7.7	4036	252	170	342	2	0	372	213	1076	8	0.4	0.20	--	3080	1329
10-18-65				12.57	13.98	14.87	0.05		6.10	4.43	30.34	0.13					
				30	34	36			15	11	74					2247	
11S/ 4W- 3C 2 S	--	7.7	1961	123	60	175	7	0	228	86	457	12	0.5	0.20	--	1350	554
10-19-65				6.14	4.93	7.61	0.18		3.74	1.79	12.89	0.19					
				33	26	40	1		20	10	69	1				1033	
11S/ 4W- 3H 3 S	68	8.3	2370	177	86	185	7	8	284	212	519	4	0.4	0.14	--	1690	796
10-18-65				8.83	7.07	8.04	0.18	0.27	4.65	4.41	14.64	0.06					
				37	29	33	1	1	19	18	61					1338	
11S/ 4W- 3H 4 S	68	7.9	5917	273	179	740	9	0	280	495	1606	4	0.5	0.44	--	3900	1418
10-18-65				13.62	14.72	32.18	0.23		4.59	10.31	45.29	0.06					
				22	24	53			8	17	75					3445	
11S/ 4W- 4J 2 S	67	7.9	5931	372	182	630	12	0	323	477	1659	2	0.6	0.26	--	3935	1678
10-21-65				18.56	14.97	27.39	0.31		5.29	9.93	46.78	0.03					
				30	24	45	1		9	16	75					3494	
11S/ 4W- 4K 1 S	68	8.0	2824	178	78	282	8	0	198	218	705	3	0.4	0.26	--	1847	765
10-21-65				8.88	6.41	12.26	0.20		3.25	4.54	19.88	0.05					
				32	23	44	1		12	16	72					1570	
11S/ 4W- 4M 1 S	--	7.7	1362	111	40	110	2	0	251	107	233	32	0.5	0.06	--	865	442
10-19-65				5.54	3.29	4.78	0.05		4.11	2.23	6.57	0.52					
				41	24	35			31	17	49	4				759	
11S/ 4W- 4N 1 S	70	7.7	1159	85	38	96	5	0	294	87	177	9	0.5	0.10	--	720	369
10-19-65				4.24	3.13	4.17	0.13		4.82	1.81	4.99	0.15					
				36	27	36	1		41	15	42	1				642	
11S/ 4W- 5K 1 S	68	7.4	4327	409	146	239	12	0	238	175	1247	0	0.3	0.10	--	3470	1622
10-19-65				20.41	12.01	10.39	0.31		3.90	3.64	35.17						
				47	28	24	1		9	9	82					2345	
11S/ 4W- 5L 1 S	--	7.5	3509	303	109	250	11	0	337	214	891	1	0.3	0.26	--	2700	1205
10-20-65				15.12	8.96	10.87	0.28		5.52	4.46	25.13	0.02					
				43	25	31	1		16	13	72					1945	
11S/ 4W- 5Q 1 S	68	7.6	1150	86	33	102	6	0	297	90	159	13	0.3	0.08	--	717	350
10-19-65				4.29	2.71	4.43	0.15		4.87	1.87	4.48	0.21					
				37	23	38	1		43	16	39	2				635	
11S/ 4W- 6R 2 S	--	7.6	3170	200	78	364	9	0	456	249	689	1	0.5	1.02	--	2020	820
10-20-65				9.98	6.41	15.83	0.23		7.47	5.18	19.43	0.02					
				31	20	49	1		23	16	61					1816	
11S/ 4W- 6R 4 S	--	7.3	4831	281	119	620	12	0	543	368	1232	2	0.5	0.54	--	3250	1191
10-20-65				14.02	9.79	26.96	0.31		8.90	7.66	34.74	0.03					
				27	19	53	1		17	15	68					2902	
11S/ 4W- 7L 1 S	68	7.3	1984	73	42	270	18	0	176	343	331	5	0.4	0.52	--	1145	355
10-28-65				3.64	3.45	11.74	0.46		2.88	7.14	9.33	0.08					
				19	18	61	2		15	37	48					1169	
11S/ 4W- 7L 2 S	67	7.5	2227	126	54	282	9	0	325	384	340	2	0.4	0.62	--	1390	537
10-25-65				6.29	4.44	12.26	0.23		5.33	7.99	9.59	0.03					
				27	19	53	1		23	35	42					1358	
11S/ 4W- 7Q 2 S	68	7.5	2682	216	88	234	9	0	320	453	475	1	0.4	0.10	--	1895	902
10-20-65				10.78	7.24	10.17	0.23		5.24	9.43	13.40	0.02					
				38	25	36	1		19	34	48					1634	

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SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	FCX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TDS 180C 105C COMP	HARD-NESS CACO 3
SAN LUIS REY HYDRO UNIT Z0300																	
BONSALL HYDRO SUBUNIT Z03A0																	
MISSION HYDRO SUBAREA Z03A1																	
11S/ 4W- 7R 2 S	69	7.7	1442	112	44	118	6	0	271	167	231	0	0.3	0.06	--	962	461
10-20-65				5.59	3.62	5.13	0.15		4.44	3.48	6.51						
				39	25	35	1		31	24	45					812	
11S/ 4W- 8B 1 S	--	7.8	1248	95	37	109	6	0	228	157	186	12	0.4	0.06	--	844	389
10-19-65				4.74	3.04	4.74	0.15		3.74	3.27	5.25	0.19					
				37	24	37	1		30	26	42	2				715	
11S/ 4W- 8E 1 S	--	7.6	2179	167	71	176	8	0	284	255	430	1	0.6	0.12	--	1530	709
10-20-65				8.33	5.84	7.65	0.20		4.65	5.31	12.13	0.02					
				38	27	35	1		21	24	55					1248	
11S/ 4W- 8H 1 S	--	8.1	2326	152	76	230	7	0	357	296	420	7	0.7	0.06	--	1490	692
10-20-65				7.58	6.25	10.00	0.18		5.85	6.16	11.84	0.11					
				32	26	42	1		24	26	49					1364	
11S/ 4W- 8K 1 S	--	7.7	1517	136	26	135	3	0	238	122	283	28	0.4	0.42	--	970	447
10-20-65				6.79	2.14	5.87	0.08		3.90	2.54	7.98	0.45					
				46	14	39	1		26	17	54	3				851	
11S/ 4W- 8L 1 S	--	7.4	1734	123	51	160	5	0	361	157	268	54	0.2	0.10	--	1100	517
10-19-65				6.14	4.19	6.96	0.13		5.92	3.27	7.56	0.87					
				35	24	40	1		34	19	43	5				996	
11S/ 4W- 8L 2 S	--	7.4	2393	175	80	218	7	0	418	267	419	42	0.3	0.22	--	1637	766
10-19-65				8.73	6.58	9.48	0.18		6.85	5.56	11.82	0.68					
				35	26	38	1		27	22	47	3				1414	
11S/ 4W- 8L 3 S	--	7.8	1764	106	31	218	2	0	253	171	337	0	0.4	0.18	--	1095	392
10-19-65				5.29	2.55	9.48	0.05		4.15	3.56	9.50						
				30	15	55			24	21	55					990	
11S/ 4W- 8M 1 S	68	7.8	2257	171	76	185	9	0	256	280	463	1	0.4	0.12	--	1490	740
10-20-65				8.53	6.25	8.04	0.23		4.20	5.83	13.06	0.02					
				37	27	35	1		18	25	57					1311	
11S/ 4W- 8N 2 S	--	7.8	2507	155	60	276	3	0	304	182	568	1	0.4	0.22	--	1580	634
10-20-65				7.73	4.93	12.00	0.08		4.98	3.79	16.02	0.02					
				31	20	49			20	15	65					1395	
11S/ 4W- 8N 3 S	--	8.0	2382	188	74	200	9	0	286	287	476	1	0.4	0.10	--	1622	774
10-20-65				9.38	6.09	8.70	0.23		4.69	5.98	13.42	0.02					
				38	25	36	1		19	25	56					1376	
11S/ 4W- 9C 1 S	64	8.2	1284	87	43	114	6	0	287	110	187	40	0.5	0.10	--	800	394
10-20-65				4.34	3.54	4.96	0.15		4.70	2.29	5.27	0.65					
				33	27	38	1		36	18	41	5				729	
11S/ 4W- 9N 1 S	--	8.0	1742	90	21	237	3	0	310	20	386	13	0.6	0.26	--	980	311
10-20-65				4.49	1.73	10.30	0.08		5.08	0.42	10.89	0.21					
				27	10	62			31	3	66	1				923	
11S/ 4W-18C 1 S	--	7.7	2139	177	63	185	8	0	306	317	375	1	0.4	0.14	--	1420	701
10-21-65				8.83	5.18	8.04	0.20		5.02	6.60	10.58	0.02					
				40	23	36	1		23	30	48					1277	
11S/ 4W-18C 4 S	68	7.8	2356	203	71	204	9	0	319	393	412	1	0.4	0.16	--	1590	799
10-22-65				10.13	5.84	8.87	0.23		5.23	8.18	11.62	0.02					
				40	23	35	1		21	33	46					1450	
11S/ 4W-18C 5 S	70	8.0	2296	184	73	204	9	0	279	433	376	1	0.4	0.14	--	1546	760
10-22-65				9.18	6.00	8.87	0.23		4.57	9.02	10.60	0.02					
				38	25	37	1		19	37	44					1418	
11S/ 4W-18C 6 S	65	7.7	2582	177	78	273	9	0	297	482	433	8	0.5	0.24	--	1710	763
10-26-65				8.83	6.41	11.87	0.23		4.87	10.04	12.21	0.13					
				32	23	43	1		18	37	45					1607	
11S/ 4W-18C 8 S	72	7.6	2714	191	75	285	10	0	370	369	515	2	0.4	0.38	--	1875	786
10-22-65				9.53	6.17	12.39	0.26		6.06	7.68	14.52	0.03					
				34	22	44	1		21	27	51					1630	
11S/ 4W-18C 9 S	64	7.6	2487	188	71	242	9	0	351	380	432	1	0.4	0.24	--	1608	762
10-22-65				9.38	5.84	10.52	0.23		5.75	7.91	12.18	0.02					
				36	22	41	1		22	31	47					1496	
11S/ 4W-18E 1 S	68	6.8	2421	151	124	209	14	0	58	889	261	10	0.6	0.10	--	1748	887
10-27-65				7.53	10.20	9.09	0.36		0.95	18.51	7.36	0.16					
				28	38	33	1		4	69	27	1				1687	
11S/ 4W-18F 1 S	71	7.3	2254	191	72	190	8	0	289	436	352	11	0.4	0.30	--	1590	773
10-27-65				9.53	5.92	8.26	0.20		4.74	9.08	9.93	0.18					
				40	25	35	1		20	38	41	1				1403	
11S/ 4W-18G 2 S	70	7.5	2591	232	81	206	8	0	304	389	501	1	0.5	0.16	--	1740	913
10-21-65				11.58	6.66	8.96	0.20		4.98	8.10	14.13	0.02					
				42	24	33	1		18	30	52					1568	

TABLE E-1

ANALYSES OF GROUND WATER

SOUTHERN CALIFORNIA

STATE WELL NO / DATE SAMPLED	TEMP	PH	ECX10 6	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
				CA	MG	NA	K	CO 3	HCO 3	SO 4	CL	NO 3	F	B	SIO 2	TOS 180C 105C COMP	HARD-NESS CACO 3
SAN LUIS REY HYDRO UNIT Z0300																	
BONSALL HYDRO SUBUNIT Z03A0																	
MISSION HYDRO SUBAREA Z03A1																	
11S/ 4W-18L 2 S	66	7.9	2570	193	79	220	9	0	294	218	578	0	0.4	0.10	--	1820	807
10-22-65				9.63	6.50	9.57	0.23		4.82	4.54	16.30						
				37	25	37	1		19	18	64					1442	
11S/ 4W-18L 3 S	68	8.0	2095	204	72	155	8	0	286	493	277	1	0.5	0.20	--	1470	806
10-21-65				10.18	5.92	6.74	0.20		4.69	10.26	7.81	0.02					
				44	26	29	1		21	45	34					1351	
11S/ 4W-18L 4 S	67	7.7	2192	229	87	148	8	0	297	633	238	0	0.6	0.08	--	1710	930
10-22-65				11.43	7.15	6.44	0.20		4.87	13.18	6.71						
				45	28	26	1		20	53	27					1490	
11S/ 5W-13B 1 S	--	7.6	3831	181	120	445	4	0	292	247	1010	1	0.7	0.12	--	2570	946
10-21-65				9.03	9.87	19.35	0.10		4.79	5.14	28.48	0.02					
				24	26	50			12	13	74					2152	
11S/ 5W-13B 2 S	--	7.4	2155	111	62	234	3	0	256	128	495	1	0.7	0.10	--	1360	532
10-21-65				5.54	5.10	10.17	0.08		4.20	2.66	13.96	0.02					
				27	24	49			20	13	67					1161	
11S/ 5W-13L 1 S	70	7.4	3226	273	123	248	11	0	303	473	712	1	0.6	0.10	--	2410	1188
10-21-65				13.62	10.12	10.78	0.28		4.97	9.85	20.08	0.02					
				39	29	31	1		14	28	58					1991	
11S/ 5W-13L 2 S	70	8.3	17986	242	713	3150	18	8	40	1953	5959	16	0.6	0.90	--	12658	3539
10-28-65				12.08	58.64	136.96	0.46	0.27	0.66	40.66	168.04	0.26					
				6	28	66				19	80					12080	
11S/ 5W-13N 2 S	--	6.9	1818	15	25	305	11	0	145	3	480	8	0.1	0.14	--	890	141
10-29-65				0.75	2.06	13.26	0.28		2.38	0.06	13.54	0.13					
				5	13	81	2		15		84	1				918	
11S/ 5W-13N 3 S	70	7.1	14815	528	370	2376	27	0	272	645	5012	16	0.6	0.40	--	9540	2841
10-29-65				26.35	30.43	103.31	0.69		4.46	13.43	141.34	0.26					
				16	19	64			3	8	89					9109	
11S/ 5W-13Q 3 S	68	7.1	11173	615	282	1428	22	0	258	498	3598	14	0.4	0.20	--	6905	2696
10-28-65				30.69	23.19	62.09	0.56		4.23	10.37	101.46	0.23					
				26	20	53			4	9	87					6584	
11S/ 5W-23E 4 S	--	6.9	15576	435	465	2640	56	0	409	732	5500	3	0.8	0.85	--	10940	3000
10-21-65				21.71	38.24	114.79	1.43		6.70	15.24	155.10	0.05					
				12	22	65	1		4	9	88					10034	
11S/ 5W-24B 2 S	69	7.0	2288	37	80	287	11	0	71	90	636	2	0.1	0.12	--	1236	422
10-28-65				1.85	6.58	12.48	0.28		1.16	1.87	17.94	0.03					
				9	31	59	1		6	9	85					1178	
COTTONWOOD HYDRO SUBUNIT Z11F0																	
Z11F0																	
17S/ 5E- 4C 1 S	64	7.6	421	36	16	26	1	--	197	21	26	1	0.3	0.08	--	242	156
12- 6-66				1.80	1.32	1.13	0.03		3.23	0.44	0.73	0.02					
				42	31	26	1		73	10	17					224	
17S/ 5E- 4C 2 S	63	6.6	3035	498	218	109	5	--	131	1937	84	0	0.8	0.17	--	3231	2141
12- 6-66				24.85	17.93	4.74	0.13		2.15	40.33	2.37						
				52	38	10			5	90	5					2916	

TABLE E - 2

TRACE ELEMENT ANALYSES OF GROUND WATER
SOUTHERN CALIFORNIA

STATE WELL NUMBER	DATE SAMPLED	Al	Be	Bi	Cd	Co	Cr	Cu	Fe	Ga	Ge	Mn	Mo	Ni	Pb	Ti	V	Zn
		Constituents in micrograms per liter																
LOS ANGELES DRAINAGE PROVINCE (U)																		
U-03.A1 Oxnard Hydrologic Subarea																		
1N/21W-19L6 S	9-30-66	9.3	<1.3	<0.67	<3.3	<3.3	<3.3	29	24	<13	<0.67	<3.3	19	4.4	<3.3	<1.3	<0.67	60
2N/22W-10A2 S	9-29-66	17	<1.3	<0.67	<3.3	<3.3	<3.3	27	25	<13	<0.67	<3.3	8	3.7	<3.3	<1.3	0.9	37
2N/22W-11A1 S	9-30-66	27	<1.3	<0.67	<3.3	<3.3	<3.3	22	24	<13	<0.67	<3.3	12	4.0	<3.3	<1.3	1.1	39
2N/22W-12E1 S	10-20-65	<3.3	<1.3	<0.67	<3.3	<3.3	<3.3	<3.3	27	<13	<0.67	<3.3	<0.67	<0.67	<3.3	<1.3	<0.67	21,300
2N/22W-12E1 S	9-29-66	14	<1.3	<0.67	<3.3	<3.3	<3.3	52	13	<13	<0.67	<3.3	8.0	3.7	<3.3	<1.3	0.6	173
2N/22W-15Q1 S	9-29-66	15	<1.3	<0.67	<3.3	<3.3	<3.3	14	27	<13	<0.67	<3.3	9.3	5.1	<3.3	<1.3	0.7	8.3
2N/22W-15Q1 S	10-20-65	11	<1.3	<0.67	<3.3	<3.3	<3.3	<3.3	16	<13	<0.67	<3.3	12	37	<3.3	12	16	15
U-03.B1 Santa Paula Hydrologic Subarea																		
3N/21W-16K1 S	10-25-65	43	<1.0	<0.5	<2.5	0.00	<2.5	55	>100	<10	<0.50	≤60	7.5	2.6	28	<1.0	1.6	≤40
3N/21W-21B1 S	10-22-65	<3.3	<1.3	<0.67	<3.3	<3.3	<3.3	<3.3	33	<13	<0.67	<3.3	14	23	<3.3	<1.3	<0.67	733
3N/21W-21B1 S	9-29-66	0.6	<1.3	<0.67	<3.3	<3.3	<3.3	19	21	<13	<0.67	69	8.7	3.9	<3.3	<1.3	0.6	373
3N/21W-21E1 S	12-15-65	40	<1.3	<0.67	<3.3	<3.3	<3.3	57	25	<13	<0.67	<3.3	17	4.7	<3.3	<1.3	1.5	<13
3N/21W-21E1 S	9-30-66	21	<1.3	<0.67	<3.3	<3.3	<3.3	28	20	<0.67	<3.3	<3.3	25	5.7	<3.3	<1.3	1.9	<13
3N/21W-21F1 S	10-22-65	80	<1.3	<0.67	<3.3	4.8	<3.3	<3.3	207	<13	<0.67	87	26	8.0	17	3.1	<0.67	19
3N/21W-21F1 S	9-29-66	24	<1.3	<0.67	<3.3	<3.3	<3.3	33	48	<13	<0.67	813	13	4.4	<3.3	<1.3	0.6	<13
U-03.C1 Fillmore Hydrologic Subarea																		
4N/20W-36D5 S	9-29-66	<3.3	<1.3	<0.67	<3.3	<3.3	<3.3	<3.3	19	<13	<0.67	<3.3	5.3	5.5	<3.3	<1.3	<0.67	<13
U-03.D1 Piru Hydrologic Subarea																		
4N/18W-29K1 S	3-29-66	11	<1.3	<0.67	<3.3	2.8	<3.3	<3.3	5.1	<13	<0.67	<3.3	8.7	1.9	<3.3	<1.3	0.8	16
4N/18W-30M3 S	9-29-66	9.3	<1.3	<0.67	<3.3	<3.3	<3.3	<3.3	5.6	<13	<0.67	<3.3	8.0	3.3	<3.3	<1.3	0.9	313
U-03.D2 Upper Piru Hydrologic Subarea																		
6N/17W-7Q1 S	10-14-65	19	<1.3	<0.67	<3.3	<3.3	<3.3	<3.3	49	<13	<0.67	<3.3	10	25	<3.3	11	<0.67	<13
6N/18W-12A1 S	10-14-65	17	<1.3	<0.67	<3.3	<3.3	<3.3	<3.3	93	<13	<0.67	<3.3	5.5	33	<3.3	<1.3	<0.67	<13
U-03.E1 Eastern Hydrologic Subarea																		
4N/15W-21A1 S	9-30-66	6.4	<1.3	<0.67	<3.3	<3.3	<3.3	<3.3	8.0	<13	<0.67	<3.3	5.1	4.3	<3.3	<1.3	1.7	267
4N/16W-34A3 S	9-29-66	12	<1.3	<0.67	<3.3	<3.3	<3.3	<3.3	9.3	<13	<0.67	<3.3	4.4	40	<3.3	<1.3	5.7	<13
U-03.F1 West Las Posas Hydrologic Subarea																		
2N/21W-15J1 S	3-29-66	8.0	<1.3	<0.67	<3.3	<3.3	<3.3	<3.3	11	<13	<0.67	<3.3	12	2.1	<3.3	<1.3	<0.67	<13
U-03.F2 East Las Posas Hydrologic Subarea																		
2N/20W- 8F1 S	9-29-66	10.0	<1.3	<0.67	<3.3	<3.3	<3.3	<3.3	5.0	<13	<0.67	173	9.3	3.2	<3.0	<1.3	<0.67	<13
U-03.F7 Simi Valley Hydrologic Subarea																		
2N/17W- 8J6 S	9-29-66	17	<1.3	<0.67	<3.3	<3.3	<3.3	18	23	<13	<0.67	<3.3	<0.67	4.1	<3.3	<1.3	<0.67	41
2N/17W-16B2 S	9-29-66	8.0	<1.3	<0.67	<3.3	<3.3	<3.3	<3.3	4.7	<13	<0.67	<3.3	<0.67	38	<3.3	<1.3	<0.67	360
2N/18W- 9A2 S	9-29-66	9.3	<1.3	<0.67	<3.3	<3.3	<3.3	<3.3	6.7	<13	<0.67	<3.3	37	3.9	<3.3	<1.3	3.5	73
U-05.A5 Central Hydrologic Subarea																		
3S/12W-28C2 S	1-25-66	360	10.	<0.50	<2.5	0.00	<2.5	70	>100	<10	<0.50	≤65	<0.50	5.0	14	17	1.5	≤37
U-05.D1 Main San Gabriel Hydrologic Subarea																		
1S/11W-26D14 S	1-25-66	310	8.0	<0.50	<2.5	0.00	<2.5	38	>100	<10	<0.50	≤135	<0.50	2.9	<2.5	12	1.6	≤22

TABLE E - 2

TRACE ELEMENT ANALYSES OF GROUND WATER
SOUTHERN CALIFORNIA

STATE WELL NUMBER	DATE SAMPLED	Al	Be	Bi	Cd	Co	Cr	Cu	Fe	Ga	Ge	Mn	Mo	Ni	Pb	Ti	V	Zn
		Constituents in micrograms per liter																
LAHONTAN DRAINAGE PROVINCE (W)																		
W-03.A0 Long Hydrologic Subunit																		
2S/28E-20RS1 M	6-13-66	<100	<4	<0.5	<5	<0.5	<0.5	3.2	3	<0.5	<200	1	8.5	0.5	0.5	<100	13.5	6
3S/28E-13ES1 M	9-20-66	43	<0.29	<0.14	<0.71	<0.71	<0.71	<0.71	729	<2.9	773	>278	<0.14	1.6	<0.71	<0.29	0.5	<2.9
3S/28E-25AS1 M	9-20-66	48	<0.29	<0.14	<0.71	28	<0.71	<0.71	718	<2.9	761	74	1.7	0.6	<0.71	<0.29	<0.14	<2.9
3S/28E-31A1 M	9-21-66	40	<0.29	<0.14	<0.71	<0.71	<0.71	<0.71	732	<2.9	774	147	<0.14	7.4	7.8	<0.29	<0.14	<2.9
3S/27E-31C1 M	6-22-66	<100	<5	<0.5	<5	<0.5	<0.5	12	6	<0.5	<200	5.5	0.5	0.7	1	<100	1.2	16
3S/28E-33P1 M	5-13-66	<20	<2	<1	<10	<1	<1	2,000	60	<1	<100	26	3	3	8.5	<20	5.4	320
3S/28E-34R1 M	6-20-66	<100	<4	<0.5	<5	<0.5	<0.5	2.8	6.0	<0.5	<200	1.1	3.8	0.7	0.7	<100	5.8	4
3S/28E-13ES1 M	6-16-66	<100	<4	<1	12	<1	<1	3.3	55	11	<200	570	9.5	1	<1	<100	1.7	120
3S/28E-25AS1 M	5-12-66	<20	<2	<1	<10	1	<1	5	14	<1	<100	17	1.7	<1	3.5	<20	<1	33
3S/28E-33PS1 M	5-13-66	<20	<2	<0.5	<5	<0.5	<0.5	1.8	9	<0.5	<100	3.6	3	<0.5	0.6	<20	3.5	10
3S/28E-35ES1 M	6-14-66	<100	<4	<1	<10	<1	<1	2	3.5	<200	3.5	2.2	1.5	1	<1	<100	1.4	<1
3S/28E-35KS1 M	6-14-66	<100	<4	<0.5	<5	<0.5	0.8	2.5	5.8	<200	5.8	1.2	10	0.7	2.8	<100	8.5	5
3S/28E-35NS2 M	6-14-66	<100	<4	<0.5	<5	<0.5	<0.5	1	6.5	<200	6.5	1.2	7.5	0.6	<0.5	<100	8	<20
3S/29E-21LS1 M	6-11-66	<100	<4	<0.7	<5	<1	<1	3.8	500	<200	500	33	23	1.5	1.3	<100	1.7	5
3S/29E-31AS1 M	5-13-66	<20	<2	<10	<1	<1	<10	4.6	8	<1	<100	2	2.7	<1	2.5	<20	<1	60
4S/28E- 9FS1 M	6-19-66	<100	<4	<0.5	1	<0.5	<0.5	5	15	<0.5	<200	1.3	10	0.5	0.7	<100	4	25
4S/29E- 6HS1 M	5-12-66	<40	<2	<1	<10	<1	<1	3.9	18	<1	<100	2.1	8	<1	14	<20	2.6	300
4S/29E-17ES1 M	6-24-66	<100	<4	<0.5	<5	<0.5	1	4	7.5	<0.5	<200	1.5	2.3	0.7	7.5	<100	3	25
4S/29E-36L S1 M	6-16-66	<100	<4	<0.5	<5	<0.5	<0.5	3	5.8	<0.5	<200	1	2.3	<0.3	<0.5	<100	1.8	7.5

AREAL DESIGNATIONS
HYDROLOGIC UNITS SUBUNITS AND SUBAREAS
CENTRAL COASTAL DRAINAGE PROVINCE

T–09.00 SALINAS HYDROLOGIC UNIT
- T–09.H0 Paso Robles Hydrologic Subunit
- T–09.I0 Pozo Hydrologic Subunit

T–10.00 SAN LUIS OBISPO HYDROLOGIC UNIT
- T–10.A0 Cambria Hydrologic Subunit
  - T–10.A1 San Carpoforo Hydrologic Subarea
  - T–10.A2 Arroyo De La Cruz Hydrologic Subarea
  - T–10.A3 San Simeon Hydrologic Subarea
  - T–10.A4 Santa Rosa Hydrologic Subarea
  - T–10.A5 Villa Hydrologic Subarea
  - T–10.A6 Cayucos Hydrologic Subarea
  - T–10.A7 Old Hydrologic Subarea
  - T–10.A8 Toro Hydrologic Subarea
- T–10.B0 San Luis Obispo Hydrologic Subunit
  - T–10.B1 Morro Hydrologic Subarea
  - T–10.B2 Chorro Hydrologic Subarea
  - T–10.B3 Los Osos Hydrologic Subarea
  - T–10.B4 San Luis Obispo Creek Hydrologic Subarea
  - T–10.B5 Point San Luis Hydrologic Subarea
  - T–10.B6 Pismo Hydrologic Subarea
- T–10.C0 Arroyo Grande Hydrologic Subunit
  - T–10.C1 Arroyo Grande Hydrologic Subarea
  - T–10.C2 Nipomo Mesa Hydrologic Subarea

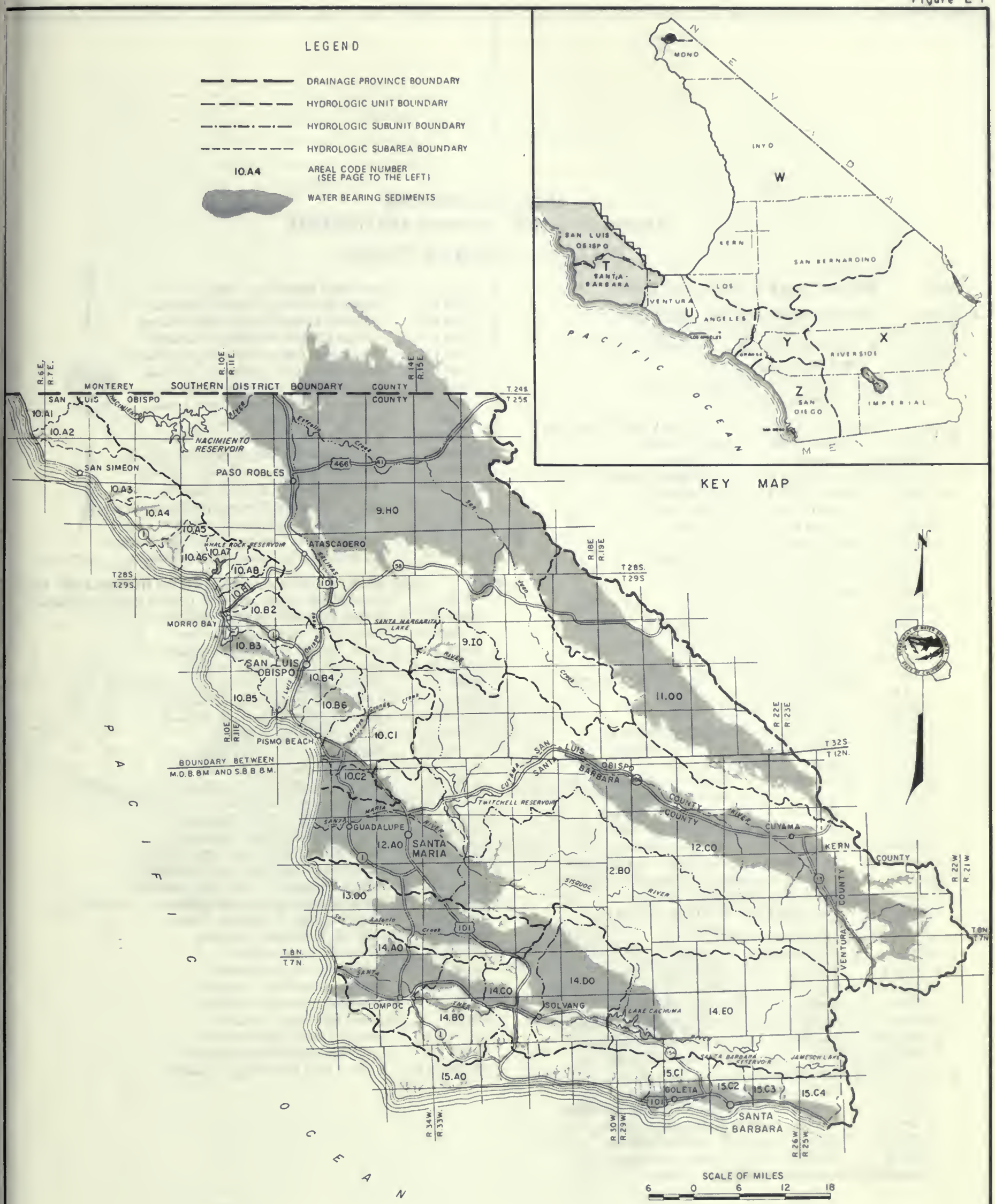
T–11.00 CARRIZO PLAIN HYDROLOGIC UNIT

T–12.00 SANTA MARIA–CUYAMA HYDROLOGIC UNIT
- T–12.A0 Santa Maria Hydrologic Subunit
- T–12.B0 Sisquoc Hydrologic Subunit
- T–12.C0 Cuyama Valley Hydrologic Subunit

T–13.00 SAN ANTONIO HYDROLOGIC UNIT

T–14.00 SANTA YNEZ HYDROLOGIC UNIT
- T–14.A0 Lompoc Hydrologic Subunit
- T–14.B0 Santa Rita Hydrologic Subunit
- T–14.C0 Buellton Hydrologic Subunit
- T–14.D0 Santa Ynez Hydrologic Subunit
- T–14.E0 Headwater Hydrologic Subunit

T–15.00 SANTA BARBARA HYDROLOGIC UNIT
- T–15.A0 Arguello Hydrologic Subunit
- T–15.C0 South Coast Hydrologic Subunit
  - T–15.C1 Goleta Hydrologic Subarea
  - T–15.C2 Santa Barbara Hydrologic Subarea
  - T–15.C3 Montecito Hydrologic Subarea
  - T–15.C4 Carpinteria Hydrologic Subarea



NAMES AND AREAL CODE NUMBERS OF HYDROLOGIC AREAS
CENTRAL COASTAL DRAINAGE PROVINCE (T)

DEPARTMENT OF WATER RESOURCES, SOUTHERN DISTRICT, 1968

AREAL DESIGNATIONS
HYDROLOGIC UNITS SUBUNITS AND SUBAREAS
LOS ANGELES DRAINAGE PROVINCE

U–01.00 RINCON CREEK HYDROLOGIC UNIT

U–02.00 VENTURA RIVER HYDROLOGIC UNIT
- U–02.A0 Lower Ventura River Hydrologic Subunit
- U–02.B0 Upper Ventura River Hydrologic Subunit
- U–02.C0 Ojai Hydrologic Subunit
  - U–02.C1 Upper Ojai Hydrologic Subarea
  - U–02.C2 Ojai Hydrologic Subarea

U–03.00 SANTA CLARA–CALLEGUAS HYDROLOGIC UNIT
- U–03.A0 Oxnard Plain Hydrologic Subunit
  - U–03.A1 Oxnard Hydrologic Subarea
  - U–03.A2 Pleasant Valley Hydrologic Subarea
- U–03.B0 Santa Paula Hydrologic Subunit
  - U–03.B1 Santa Paula Hydrologic Subarea
  - U–03.B2 Sisar Hydrologic Subarea
- U–03.C0 Sespe Hydrologic Subunit
  - U–03.C1 Fillmore Hydrologic Subarea
  - U–03.C2 Sespe Hydrologic Subarea
- U–03.D0 Piru Hydrologic Subunit
  - U–03.D1 Piru Hydrologic Subarea
  - U–03.D2 Upper Piru Hydrologic Subarea
  - U–03.D3 Hungry Valley Hydrologic Subarea
  - U–03.D4 Stauffer Hydrologic Subarea
- U–03.E0 Upper Santa Clara River Hydrologic Subunit
  - U–03.E1 Eastern Hydrologic Subarea
  - U–03 E2 Bouquet Hydrologic Subarea
  - U–03.E3 Mint Canyon Hydrologic Subarea
  - U–03.E4 Sierra Pelona Hydrologic Subarea
  - U–03.E5 Acton Hydrologic Subarea
- U–03.F0 Calleguas–Conejo Hydrologic Subunit
  - U–03.F1 West Las Posas Hydrologic Subarea
  - U–03.F2 East Las Posas Hydrologic Subarea
  - U–03.F3 Arroyo Santa Rosa Hydrologic Subarea
  - U–03.F4 Conejo Valley Hydrologic Subarea
  - U–03.F5 Tierra Rejada Valley Hydrologic Subarea
  - U–03.F6 Gillibrand Hydrologic Subarea
  - U–03.F7 Simi Valley Hydrologic Subarea
  - U–03.F8 Thousand Oaks Hydrologic Subarea

U–04.00 MALIBU HYDROLOGIC UNIT
- U–04.A0 Topanga Hydrologic Subunit
  - U–04.A1 Topanga Canyon Hydrologic Subarea
  - U–04.A2 Tuna Canyon Hydrologic Subarea
  - U–04.A3 Pena Canyon Hydrologic Subarea
  - U–04.A4 Piedra Gorda Canyon Hydrologic Subarea
  - U–04.A5 Las Flores Canyon Hydrologic Subarea
  - U–04.A6 Carbon Canyon Hydrologic Subarea
- U–04.B0 Malibu Creek Hydrologic Subunit
  - U–04.B1 Malibu Creek Hydrologic Subarea
  - U–04.B2 Las Virgenes Canyon Hydrologic Subarea
  - U–04.B3 Lindero Canyon Hydrologic Subarea
  - U–04.B4 Triunfo Canyon Hydrologic Subarea
  - U–04.B5 Russell Valley Hydrologic Subarea
  - U–04.B6 Sherwood Hydrologic Subarea
- U–04.C0 Point Dume Hydrologic Subunit
  - U–04.C1 Corral Canyon Hydrologic Subarea
  - U–04.C2 Solstice Canyon Hydrologic Subarea
  - U–04.C3 Latigo Canyon Hydrologic Subarea
  - U–04.C4 Escondido Canyon Hydrologic Subarea
  - U–04.C5 Ramera Canyon Hydrologic Subarea
  - U–04.C6 Zuma Canyon Hydrologic Subarea
  - U–04.C7 Trancas Canyon Hydrologic Subarea
- U–04.D0 Camarillo Hydrologic Subunit
  - U–04.D1 Encinal Canyon Hydrologic Subarea
  - U–04.D2 Los Alisos Canyon Hydrologic Subarea
  - U–04.D3 Nicholas Canyon Hydrologic Subarea
  - U–04.D4 Arroyo Sequit Hydrologic Subarea
  - U–04.D5 Little Sycamore Canyon Hydrologic Subarea
  - U–04.D6 Deer Canyon Hydrologic Subarea
  - U–04.D7 Big Sycamore Canyon Hydrologic Subarea
  - U–04.D8 La Jolla Valley Hydrologic Subarea

U–05.00 LOS ANGELES–SAN GABRIEL RIVER HYDROLOGIC UNIT
- U–05.A0 Coastal Plain of Los Angeles County Hydrologic Subunit
  - U–05.A1 Palos Verdes Hydrologic Subarea
  - U–05.A2 West Coast Hydrologic Subarea
  - U–05.A3 Santa Monica Hydrologic Subarea
  - U–05.A4 Hollywood Hydrologic Subarea
  - U–05.A5 Central Hydrologic Subarea
- U–05.B0 San Fernando Hydrologic Subunit
  - U–05.B1 San Fernando Hydrologic Subarea
  - U–05.B2 Sylmar Hydrologic Subarea
  - U–05.B3 Tujunga Hydrologic Subarea
  - U–05.B4 Verdugo Hydrologic Subarea
  - U–05.B5 Eagle Rock Hydrologic Subarea
- U–05.C0 Raymond Hydrologic Subunit
  - U–05.C1 Pasadena Hydrologic Subarea
  - U–05.C2 Monk Hill Hydrologic Subarea
  - U–05.C3 Santa Anita Hydrologic Subarea
- U–05.D0 San Gabriel Valley Hydrologic Subunit
  - U–05.D1 Main San Gabriel Hydrologic Subarea
  - U–05.D2 Lower Canyon Hydrologic Subarea
  - U–05.D3 Upper Canyon Hydrologic Subarea
  - U–05.D4 Foothill Hydrologic Subarea
- U–05.E0 Spadra Hydrologic Subunit
  - U–05.E1 Spadra Hydrologic Subarea
  - U–05.E2 Pomona Hydrologic Subarea
  - U–05.E3 Live Oak Hydrologic Subarea
- U–05.F0 Anaheim Hydrologic Subunit
  - U–05.F1 Anaheim Hydrologic Subarea
  - U–05.F2 La Habra Hydrologic Subarea
  - U–05.F3 Yorba Linda Hydrologic Subarea

NAMES AND AREAL CODE NUMBERS OF HYDROLOGIC AREAS
LOS ANGELES DRAINAGE PROVINCE (U)

DEPARTMENT OF WATER RESOURCES, SOUTHERN DISTRICT, 1968

AREAL DESIGNATIONS
HYDROLOGIC UNITS SUBUNITS AND SUBAREAS
LAHONTAN DRAINAGE PROVINCE

W–01.00 MONO HYDROLOGIC UNIT

W–02.00 ADOBE HYDROLOGIC UNIT

W–03.00 OWENS HYDROLOGIC UNIT
- W–03.A0 Long Hydrologic Subunit
- W–03.B0 Upper Owens Hydrologic Subunit
- W–03.C0 Lower Owens Hydrologic Subunit
- W–03.D0 Centennial Hydrologic Subunit

W–04.00 FISH LAKE HYDROLOGIC UNIT

W–05.00 DEEP SPRINGS HYDROLOGIC UNIT

W–06.00 EUREKA HYDROLOGIC UNIT
- W–06.A0 Marble Bath Hydrologic Subunit
- W–06.B0 Eureka Hydrologic Subunit

W–07.00 SALINE HYDROLOGIC UNIT
- W–07.A0 Saline Hydrologic Subunit
- W–07.B0 Cameo Hydrologic Subunit

W–08.00 RACE TRACK HYDROLOGIC UNIT
- W–08.A0 Race Track Hydrologic Subunit
- W–08.B0 Hidden Valley Hydrologic Subunit
- W–08.C0 Ulida Hydrologic Subunit
- W–08.D0 Sand Flat Hydrologic Subunit

W–09.00 AMARGOSA HYDROLOGIC UNIT
- W–09.A0 Death Valley Hydrologic Subunit
  - W–09.A1 Death Valley Hydrologic Subarea
  - W–09.A2 Harrisburgh Hydrologic Subarea
  - W–09.A3 Wingate Wash Hydrologic Subarea
- W–09.B0 Valjean Hydrologic Subunit
  - W–09.B1 Avawatz Hydrologic Subarea
  - W–09.B2 Red Pass Hydrologic Subarea
  - W–09.B3 Valjean Hydrologic Subarea
  - W–09.B4 Shadow Hydrologic Subarea
- W–09.C0 Furnace Creek Hydrologic Subunit
  - W–09.C1 Furnace Creek Hydrologic Subarea
  - W–09.C2 Greenwater Hydrologic Subarea
- W–09.D0 Amargosa Hydrologic Subunit
  - W–09.D1 Calico Hydrologic Subarea
  - W–09.D2 Amargosa Hydrologic Subarea
  - W–09.D3 Chicago Hydrologic Subarea
  - W–09.D4 California Hydrologic Subarea

W–10.00 PAHRUMP HYDROLOGIC UNIT

W–11.00 MESQUITE HYDROLOGIC UNIT

W–12.00 IVANPAH HYDROLOGIC UNIT

W–13.00 OWLSHEAD HYDROLOGIC UNIT
- W–13.A0 Lost Lake Hydrologic Subunit
- W–13.B0 Owlshead Hydrologic Subunit

W–14.00 LEACH HYDROLOGIC UNIT

W–15.00 NELSON HYDROLOGIC UNIT
- W–15.A0 McLean Hydrologic Subunit
- W–15.B0 Nelson Hydrologic Subunit

W–16.00 BICYCLE HYDROLOGIC UNIT

W–17.00 GOLDSTONE HYDROLOGIC UNIT

W–18.00 COYOTE HYDROLOGIC UNIT

W–19.00 SUPERIOR HYDROLOGIC UNIT

W–20.00 PANAMINT HYDROLOGIC UNIT
- W–20.A0 Wingate Pass Hydrologic Subunit
- W–20.B0 Wild Rose Hydrologic Subunit
  - W–20.B1 White Sage Hydrologic Subarea
  - W–20.B2 Wild Rose Hydrologic Subarea
- W–20.C0 Lee Flat Hydrologic Subunit
- W–20.D0 Santa Rosa Flat Hydrologic Subunit
  - W–20.D1 Santa Rosa Flat Hydrologic Subarea
  - W–20.D2 Rainbow Hydrologic Subarea
  - W–20.D3 Silver Dollar Hydrologic Subarea
- W–20.E0 Darwin Hydrologic Subunit
- W–20.F0 Panamint Hydrologic Subunit
- W–20.G0 Brown Hydrologic Subunit
- W–20.H0 Robbers Hydrologic Subunit

W–21.00 SEARLES HYDROLOGIC UNIT
- W–21.A0 Searles Hydrologic Subunit
- W–21.B0 Salt Wells Hydrologic Subunit
- W–21.C0 Pilot Knob Hydrologic Subunit

W–22.00 COSO HYDROLOGIC UNIT
- W–22.A0 Wild Horse Hydrologic Subunit
- W–22.B0 Coso Hydrologic Subunit

W–23.00 UPPER CACTUS HYDROLOGIC UNIT

W–24.00 INDIAN WELLS HYDROLOGIC UNIT
- W–24.A0 Rose Hydrologic Subunit
- W–24.B0 Indian Wells Hydrologic Subunit

W–25.00 FREMONT HYDROLOGIC UNIT
- W–25.A0 Dove Springs Hydrologic Subunit
- W–25.B0 Kelso Landis Hydrologic Subunit
- W–25.C0 East Tehachapi Hydrologic Subunit
- W–25.D0 Koehn Hydrologic Subunit

W–26.00 ANTELOPE HYDROLOGIC UNIT
- W–26.A0 Antelope Hydrologic Subunit
  - W–26.A1 Chafee Hydrologic Subarea
  - W–26.A2 Gloster Hydrologic Subarea
  - W–26.A3 Willow Springs Hydrologic Subarea
  - W–26.A4 Neenach Hydrologic Subarea
  - W–26.A5 Lancaster Hydrologic Subarea
  - W–26.A6 North Muroc Hydrologic Subarea
  - W–26.A7 Buttes Hydrologic Subarea
  - W–26.A8 Rock Creek Hydrologic Subarea

W–27.00 CUDDEBACK HYDROLOGIC UNIT

W–28.00 MOJAVE HYDROLOGIC UNIT
- W–28.A0 El Mirage Hydrologic Subunit
- W–28.B0 Upper Mojave Hydrologic Subunit
- W–28.C0 Middle Mojave Hydrologic Subunit
- W–28.D0 Harper Hydrologic Subunit
  - W–28.D1 Grass Valley Hydrologic Subarea
  - W–28.D2 Harper Hydrologic Subarea
- W–28.E0 Lower Mojave Hydrologic Subunit
- W–28.F0 Troy Hydrologic Subunit
  - W–28.F1 Kane Wash Hydrologic Subarea
  - W–28.F2 Troy Hydrologic Subarea
- W–28.G0 Afton Hydrologic Subunit
  - W–28.G1 Caves Hydrologic Subarea
  - W–28.G2 Cronese Hydrologic Subarea
  - W–28.G3 Langford Hydrologic Subarea
- W–28.H0 Baker Hydrologic Subunit
  - W–28.H1 Silver Lake Hydrologic Subarea
  - W–28.H2 Soda Lake Hydrologic Subarea
- W–28.I0 Kelso Hydrologic Subunit

W–29.00 BROADWELL HYDROLOGIC UNIT

NAMES AND AREAL CODE NUMBERS OF HYDROLOGIC AREAS
LAHONTAN DRAINAGE PROVINCE (W)

DEPARTMENT OF WATER RESOURCES, SOUTHERN DISTRICT, 1968

AREAL DESIGNATIONS
HYDROLOGIC UNITS SUBUNITS AND SUBAREAS
COLORADO RIVER BASIN DRAINAGE PROVINCE

X–1.00 LUCERNE HYDROLOGIC UNIT

X–2.00 JOHNSON HYDROLOGIC UNIT

X–3.00 BESSEMER HYDROLOGIC UNIT

X–4.00 MEANS HYDROLOGIC UNIT

X–5.00 EMERSON HYDROLOGIC UNIT

X–6.00 LAVIC HYDROLOGIC UNIT

X–7.00 DEADMAN HYDROLOGIC UNIT

X–8.00 JOSHUA TREE HYDROLOGIC UNIT
- X–8.A0 Warren Hydrologic Subunit
- X–8.B0 Copper Mountain Hydrologic Subunit

X–9.00 DALE HYDROLOGIC UNIT
- X–9.A0 Twentynine Palms Hydrologic Subunit
- X–9.B0 Dale Hydrologic Subunit

X–10.00 BRISTOL HYDROLOGIC UNIT
- X–10.A0 Bristol Hydrologic Subunit
- X–10.B0 Fenner Hydrologic Subunit

X–11.00 CADIZ HYDROLOGIC UNIT

X–12.00 WARD HYDROLOGIC UNIT

X–13.00 PIUTE HYDROLOGIC UNIT
- X–13.A0 Lanfair Hydrologic Subunit
- X–13.B0 Piute Hydrologic Subunit
- X–13.C0 Needles Hydrologic Subunit

X–14.00 CHEMEHUEVIS HYDROLOGIC UNIT

X–15.00 COLORADO HYDROLOGIC UNIT
- X–15.A0 Vidal Hydrologic Subunit
- X–15.B0 Big Wash Hydrologic Subunit
- X–15.C0 Quien Sabe Hydrologic Subunit
- X–15.D0 Palo Verde Hydrologic Subunit
- X–15.E0 Arroyo Seco Hydrologic Subunit

X–16.00 RICE HYDROLOGIC UNIT

X–17.00 CHUCKWALLA HYDROLOGIC UNIT
- X–17.A0 Ford Hydrologic Subunit
- X–17.B0 Palen Hydrologic Subunit
- X–17.C0 Pinto Hydrologic Subunit
- X–17.D0 Pleasant Hydrologic Subunit

X–18.00 HAYFIELD HYDROLOGIC UNIT

X–19.00 WHITEWATER HYDROLOGIC UNIT
- X–19.A0 Morongo Hydrologic Subunit
- X–19.B0 Shavers Hydrologic Subunit
- X–19.C0 San Gorgonio Hydrologic Subunit
  - X–19.C1 Beaumont Hydrologic Subarea
  - X–19.C2 San Gorgonio Hydrologic Subarea
- X–19.D0 Coachella Hydrologic Subunit
  - X–19.D1 Garnet Hill Hydrologic Subarea
  - X–19.D2 Mission Creek Hydrologic Subarea
  - X–19.D3 Miracle Hill Hydrologic Subarea
  - X–19.D4 Sky Valley Hydrologic Subarea
  - X–19.D5 Fargo Canyon Hydrologic Subarea
  - X–19.D6 Thousand Palms Hydrologic Subarea
  - X–19.D7 Indio Hydrologic Subarea

X–20.00 CLARK HYDROLOGIC UNIT

X–21.00 WEST SALTON SEA HYDROLOGIC UNIT

X–22.00 ANZA-BORREGO HYDROLOGIC UNIT
- X–22.A0 Borrego Hydrologic Subunit
  - X–22.A1 Terwilliger Hydrologic Subarea
  - X–22.A2 Collins Hydrologic Subarea
  - X–22.A3 Borrego Hydrologic Subarea
- X–22.B0 Ocotillo–Lower San Felipe Hydrologic Subunit
- X–22.C0 Mescal Bajada Hydrologic Subunit
- X–22.D0 San Felipe Hydrologic Subunit
- X–22.E0 Mason Hydrologic Subunit
- X–22.F0 Vallecito–Carrizo Hydrologic Subunit
  - X–22.F1 Carrizo Hydrologic Subarea
  - X–22.F2 Vallecito Hydrologic Subarea
  - X–22.F3 Canebrake Hydrologic Subarea
- X–22.G0 Jacumba Hydrologic Subunit
  - X–22.G1 McCain Hydrologic Subarea
  - X–22.G2 Jacumba Hydrologic Subarea

X–23.00 IMPERIAL HYDROLOGIC UNIT
- X–23.A0 Imperial Hydrologic Subunit
- X–23.B0 Coyote Wells Hydrologic Subunit

X–24.00 DAVIES HYDROLOGIC UNIT

X–25.00 EAST SALTON SEA HYDROLOGIC UNIT

X–26.00 AMOS–OGILBY HYDROLOGIC UNIT

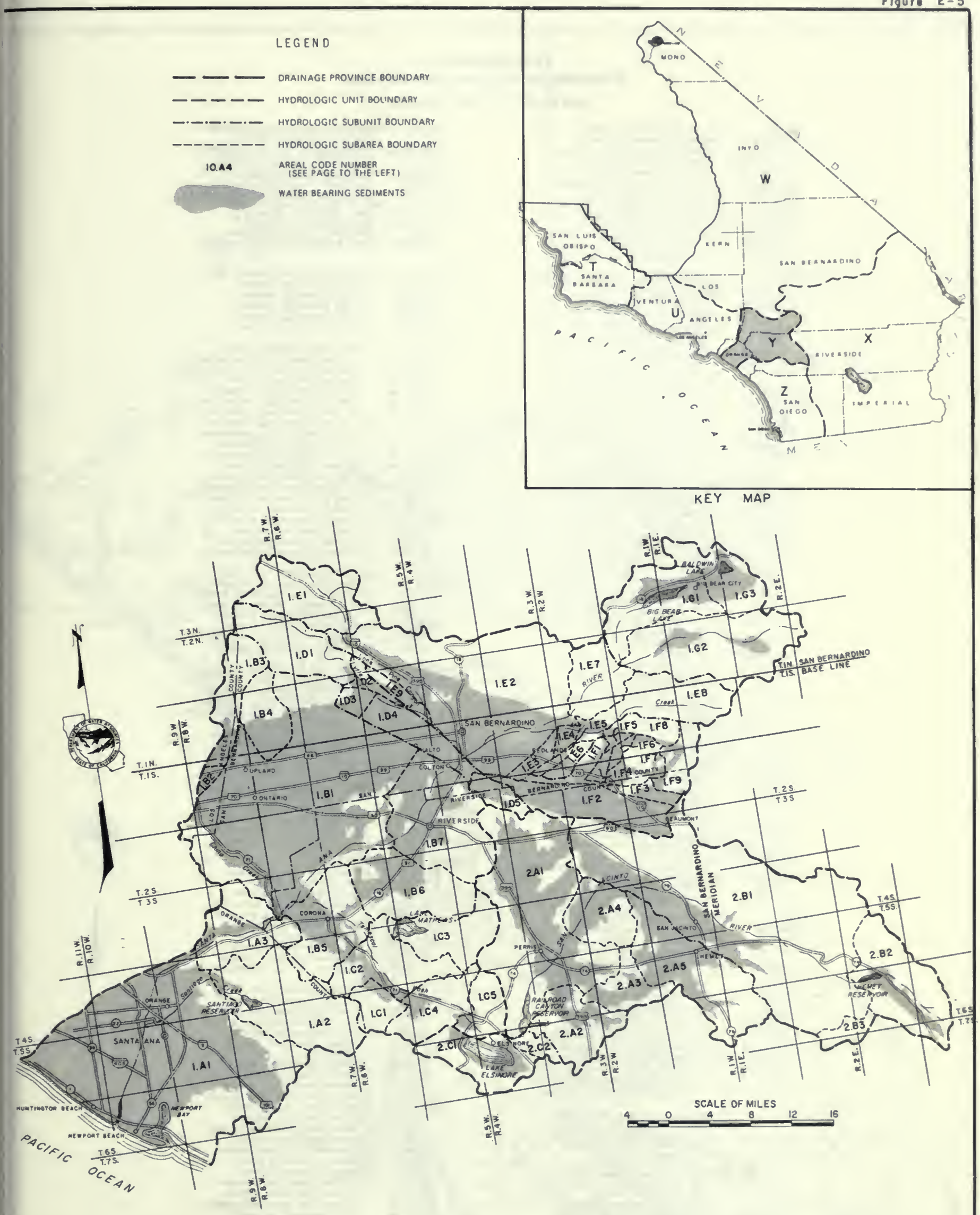
X–27.00 YUMA HYDROLOGIC UNIT

NAMES AND AREAL CODE NUMBERS OF HYDROLOGIC AREAS COLORADO RIVER BASIN DRAINAGE PROVINCE (X)

EPARTMENT OF WATER RESOURCES, SOUTHERN DISTRICT, 1968

AREAL DESIGNATIONS
HYDROLOGIC UNITS SUBUNITS AND SUBAREAS
SANTA ANA DRAINAGE PROVINCE

Y–01.00	SANTA ANA RIVER HYDROLOGIC UNIT
Y–01.A0	Lower Santa Ana River Hydrologic Subunit
Y–01.A1	East Coastal Plain Hydrologic Subarea
Y–01.A2	Santiago Hydrologic Subarea
Y–01.A3	Santa Ana Narrows Hydrologic Subarea
Y–01.B0	Middle Santa Ana River Hydrologic Subunit
Y–01.B1	Chino Hydrologic Subarea
Y–01.B2	Harrison Hydrologic Subarea
Y–01.B3	Claremont Heights Hydrologic Subarea
Y–01.B4	Cucamonga Hydrologic Subarea
Y–01.B5	Temescal Hydrologic Subarea
Y–01.B6	Arlington Hydrologic Subarea
Y–01.B7	Riverside Hydrologic Subarea
Y–01.C0	Lake Methews Hydrologic Subunit
Y–01.C1	Coldwater Hydrologic Subarea
Y–01.C2	Bedford Hydrologic Subarea
Y–01.C3	Cajalco Hydrologic Subarea
Y–01.C4	Lee Lake Hydrologic Subarea
Y–01.C5	Terra Cotta Hydrologic Subarea
Y–01.D0	Colton–Rialto Hydrologic Subunit
Y–01.D1	Upper Lytle Hydrologic Subarea
Y–01.D2	Lower Lytle Hydrologic Subarea
Y–01.D3	Upper Colton–Rialto Hydrologic Subarea
Y–01.D4	Colton–Rialto Hydrologic Subarea
Y–01.D5	Reche Hydrologic Subarea
Y–01.E0	Upper Santa Ana River Hydrologic Subunit
Y–01.E1	Cajon Hydrologic Subarea
Y–01.E2	Bunker Hill Hydrologic Subarea
Y–01.E3	Redlands Hydrologic Subarea
Y–01.E4	Mentone Hydrologic Subarea
Y–01.E5	Reservoir Hydrologic Subarea
Y–01.E6	Crafton Hydrologic Subarea
Y–01.E7	Santa Ana Canyon Hydrologic Subarea
Y–01.E8	Mill Creek Hydrologic Subarea
Y–01.E9	Sycamore Hydrologic Subarea
Y–01.F0	San Timoteo Hydrologic Subunit
Y–01.F1	Yucaipa Hydrologic Subarea
Y–01.F2	San Timoteo Hydrologic Subarea
Y–01.F3	Cherry Valley Hydrologic Subarea
Y–01.F4	Chicken Hill Hydrologic Subarea
Y–01.F5	Gateway Hydrologic Subarea
Y–01.F6	Oak Glen Hydrologic Subarea
Y–01.F7	South Mesa Hydrologic Subarea
Y–01.F8	Triple Falls Creek Hydrologic Subarea
Y–01.F9	Nobie Creek Hydrologic Subarea
Y–01.G0	San Bernardino Mountain Hydrologic Subunit
Y–01.G1	Bear Valley Hydrologic Subarea
Y–01.G2	Seven Oaks Hydrologic Subarea
Y–01.G3	Baldwin Hydrologic Subarea
Y–02.00	SAN JACINTO VALLEY HYDROLOGIC UNIT
Y–02.A0	Perris Hydrologic Subunit
Y–02.A1	Perris Valley Hydrologic Subarea
Y–02.A2	Menifee Hydrologic Subarea
Y–02.A3	Winchester Hydrologic Subarea
Y–02.A4	Lakeview Hydrologic Subarea
Y–02.A5	Hemet Hydrologic Subarea
Y–02.B0	San Jacinto Hydrologic Subunit
Y–02.B1	San Jacinto Hydrologic Subarea
Y–02.B2	Hemet Lake Hydrologic Subarea
Y–02.B3	Bautista Hydrologic Subarea
Y–02.C0	Elsinore Hydrologic Subunit
Y–02.C1	Elsinore Hydrologic Subarea
Y–02.C2	Railroad Hydrologic Subarea



NAMES AND AREAL CODE NUMBERS OF HYDROLOGIC AREAS SANTA ANA DRAINAGE PROVINCE (Y)

AREAL DESIGNATIONS
HYDROLOGIC UNITS SUBUNITS AND SUBAREAS

SAN DIEGO DRAINAGE PROVINCE

Z–01.00 SAN JUAN HYDROLOGIC UNIT
- Z–01.A0 Laguna Hydrologic Subunit
  - Z–01.A1 San Joaquin Hydrologic Subarea
  - Z–01.A2 Laguna Hydrologic Subarea
  - Z–01.A3 Aliso Hydrologic Subarea
  - Z–01.A4 Dana Point Hydrologic Subarea
- Z–01.B0 San Juan Hydrologic Subunit
- Z–01.C0 San Clemente Hydrologic Subunit
- Z–01.D0 San Mateo Hydrologic Subunit
- Z–01.E0 San Onofre Hydrologic Subunit
  - Z–01.E1 San Onofre Hydrologic Subarea
  - Z–01.E2 Las Pulgas Hydrologic Subarea
  - Z–01.E3 Stuart Hydrologic Subarea

Z–02.00 SANTA MARGARITA HYDROLOGIC UNIT
- Z–02.A0 Ysidora Hydrologic Subunit
  - Z–02.A1 Ysidora Hydrologic Subarea
  - Z–02.A2 Chappo Hydrologic Subarea
  - Z–02.A3 Upper Ysidora Hydrologic Subarea
- Z–02.B0 De Luz Hydrologic Subunit
  - Z–02.B1 De Luz Hydrologic Subarea
  - Z–02.B2 Gavilan Hydrologic Subarea
  - Z–02.B3 Vallecitos Hydrologic Subarea
- Z–02.C0 Murrieta Hydrologic Subunit
  - Z–02.C1 Wildomar Hydrologic Subarea
  - Z–02.C2 Murrieta Hydrologic Subarea
  - Z–02.C3 French Hydrologic Subarea
  - Z–02.C4 Lower Domenigoni Hydrologic Subarea
  - Z–02.C5 Domenigoni Hydrologic Subarea
  - Z–02.C6 Diamond Hydrologic Subarea
- Z–02.D0 Auld Hydrologic Subunit
  - Z–02.D1 Auld Hydrologic Subarea
  - Z–02.D2 Gertrudis Hydrologic Subarea
  - Z–02.D3 Lower Tucalota Hydrologic Subarea
  - Z–02.D4 Tucalota Hydrologic Subarea
- Z–02.E0 Pechanga Hydrologic Subunit
  - Z–02.E1 Pauba Hydrologic Subarea
  - Z–02.E2 Pechanga Hydrologic Subarea
- Z–02.F0 Wilson Hydrologic Subunit
  - Z–02.F1 Lancaster Valley Hydrologic Subarea
  - Z–02.F2 Lewis Hydrologic Subarea
  - Z–02.F3 Wilson Hydrologic Subarea
- Z–02.G0 Anza Hydrologic Subunit
  - Z–02.G1 Lower Coahuila Hydrologic Subarea
  - Z–02.G2 Upper Coahuila Hydrologic Subarea
  - Z–02.G3 Anza Hydrologic Subarea
  - Z–02.G4 Burnt Hydrologic Subarea
- Z–02.H0 Aguanga Hydrologic Subunit
  - Z–02.H1 Vail Hydrologic Subarea
  - Z–02.H2 Devils Hole Hydrologic Subarea
  - Z–02.H3 Redec Hydrologic Subarea
  - Z–02.H4 Aguanga Hydrologic Subarea
- Z–02.I0 Oakgrove Hydrologic Subunit
  - Z–02.I1 Lower Culp Hydrologic Subarea
  - Z–02.I2 Oakgrove Hydrologic Subarea
  - Z–02.I3 Dodge Hydrologic Subarea
  - Z–02.I4 Chihuahua Hydrologic Subarea

Z–03.00 SAN LUIS REY HYDROLOGIC UNIT
- Z–03.A0 Bonsall Hydrologic Subunit
  - Z–03.A1 Mission Hydrologic Subarea
  - Z–03.A2 Bonsall Hydrologic Subarea
  - Z–03.A3 Moosa Hydrologic Subarea
  - Z–03.A4 Valley Center Hydrologic Subarea
  - Z–03.A5 Woods Hydrologic Subarea
  - Z–03.A6 Rincon Hydrologic Subarea
- Z–03.B0 Monserate Hydrologic Subunit
  - Z–03.B1 Pala Hydrologic Subarea
  - Z–03.B2 Pauma Hydrologic Subarea
  - Z–03.B3 San Luis Rey Hydrologic Subarea
- Z–03.C0 Warner Hydrologic Subunit
  - Z–03.C1 Warner Hydrologic Subarea
  - Z–03.C2 Combs Hydrologic Subarea

Z–04.00 CARLSBAD HYDROLOGIC UNIT
- Z–04.A0 Loma Alta Hydrologic Subunit
- Z–04.B0 Vista Hydrologic Subunit
  - Z–04.B1 Carlsbad Hydrologic Subarea
  - Z–04.B2 Vista Hydrologic Subarea
- Z–04.C0 Agua Hedionda Hydrologic Sununit
  - Z–04.C1 Agua Hedionda Hydrologic Subarea
  - Z–04.C2 Buena Hydrologic Subarea
- Z–04.D0 Encinas Hydrologic Subunit
- Z–04.E0 San Marcos Hydrologic Subunit
  - Z–04.E1 Batiquitos Hydrologic Subarea
  - Z–04.E2 San Marcos Hydrologic Subarea
  - Z–04.E3 Twin Oaks Hydrologic Subarea
- Z–04.F0 Escondido Hydrologic Subunit
  - Z–04.F1 San Elijo Hydrologic Subarea
  - Z–04.F2 Escondido Hydrologic Subarea
  - Z–04.F3 Lake Wohlford Hydrologic Subarea

Z–05.00 SAN DIEGUITO HYDROLOGIC UNIT
- Z–05.A0 San Dieguito Hydrologic Subunit
  - Z–05.A1 San Dieguito Hydrologic Subarea
  - Z–05.A2 La Jolla Hydrologic Subarea
- Z–05.B0 Hodges Hydrologic Subunit
  - Z–05.B1 Hodges Hydrologic Subarea
  - Z–05.B2 Green Hydrologic Subarea
  - Z–05.B3 Felicita Hydrologic Subarea
  - Z–05.B4 Bear Hydrologic Subarea
- Z–05.C0 San Pasqual Hydrologic Subunit
  - Z–05.C1 Highland Hydrologic Subarea
  - Z–05.C2 San Pasqual Hydrologic Subarea
  - Z–05.C3 Reed Hydrologic Subarea
  - Z–05.C4 Hidden Hydrologic Subarea
  - Z–05.C5 Guejito Hydrologic Subarea
  - Z–05.C6 Vineyard Hydrologic Subarea
- Z–05.D0 Santa Maria Valley Hydrologic Subunit
  - Z–05.D1 Ramona Hydrologic Subarea
  - Z–05.D2 Lower Hatfield Hydrologic Subarea
  - Z–05.D3 Wash Hollow Hydrologic Subarea
  - Z–05.D4 Upper Hatfield Hydrologic Subarea
  - Z–05.D5 Ballena Hydrologic Subarea
  - Z–05.D6 East Santa Teresa Hydrologic Subarea
  - Z–05.D7 West Santa Teresa Hydrologic Subarea
- Z–05.E0 Santa Ysabel Hydrologic Subunit
  - Z–05.E1 Boden Hydrologic Subarea
  - Z–05.E2 Pamo Hydrologic Subarea
  - Z–05.E3 Sutherland Hydrologic Subarea
  - Z–05.E4 Santa Ysabel Hydrologic Subarea

Z–06.00 PENASQUITOS HYDROLOGIC UNIT
- Z–06.A0 Soledad Hydrologic Subunit
- Z–06.B0 Poway Hydrologic Subunit
- Z–06.C0 Scripps Hydrologic Subunit
- Z–06.D0 Miramar Hydrologic Subunit
- Z–06.E0 Tecolote Hydrologic Subunit

Z–07.00 SAN DIEGO HYDROLOGIC UNIT
- Z–07.A0 Lower San Diego Hydrologic Subunit
  - Z–07.A1 Mission San Diego Hydrologic Subarea
  - Z–07.A2 Santee Hydrologic Subarea
  - Z–07.A3 El Cajon Hydrologic Subarea
  - Z–07.A4 Coches Hydrologic Subarea
  - Z–07.A5 El Monte Hydrologic Subarea
- Z–07.B0 San Vicente Hydrologic Subunit
  - Z–07.B1 San Vicente Hydrologic Subarea
  - Z–07.B2 Kimball Hydrologic Subarea
  - Z–07.B3 Gower Hydrologic Subarea
  - Z–07.B4 Barona Hydrologic Subarea
- Z–07.C0 El Capitan Hydrologic Subunit
  - Z–07.C1 El Capitan Hydrologic Subarea
  - Z–07.C2 Glen Oaks Hydrologic Subarea
  - Z–07.C3 Alpine Hydrologic Subarea
- Z–07.D0 Cuyamaca Hydrologic Subunit
  - Z–07.D1 Inaja Hydrologic Subarea
  - Z–07.D2 Spencer Hydrologic Subarea
  - Z–07.D3 Cuyamaca Hydrologic Subarea

Z–08.00 CORONADO HYDROLOGIC UNIT
- Z–08.A0 Point Loma Hydrologic Subunit
- Z–08.B0 San Diego Mesa Hydrologic Subunit
  - Z–08.B1 Lindbergh Hydrologic Subarea
  - Z–08.B2 Chollas Hydrologic Subarea
- Z–08.C0 Paradise Hydrologic Subunit
  - Z–08.C1 El Toyan Hydrologic Subarea
  - Z–08.C2 Paradise Hydrologic Subarea

Z–09.00 SWEETWATER HYDROLOGIC UNIT
- Z–09.A0 Lower Sweetwater Hydrologic Subunit
  - Z–09.A1 Telegraph Hydrologic Subarea
  - Z–09.A2 Sweetwater Hydrologic Subarea
- Z–09.B0 Middle Sweetwater Hydrologic Subunit
  - Z–09.B1 Jamacha Hydrologic Subarea
  - Z–09.B2 Hillsdale Hydrologic Subarea
  - Z–09.B3 Dehesa Hydrologic Subarea
  - Z–09.B4 Galloway Hydrologic Subarea
  - Z–09.B5 Sequan Hydrologic Subarea
  - Z–09.B6 Alpine Heights Hydrologic Subarea
- Z–09.C0 Upper Sweetwater Hydrologic Subunit
  - Z–09.C1 Loveland Hydrologic Subarea
  - Z–09.C2 Japatul Hydrologic Subarea
  - Z–09.C3 Viejas Hydrologic Subarea
  - Z–09.C4 Descanso Hydrologic Subarea
  - Z–09.C5 Garnet Hydrologic Subarea

Z–10.00 OTAY HYDROLOGIC UNIT
- Z–10.A0 Coronado Hydrologic Subunit
- Z–10.B0 Otay Hydrologic Subunit
- Z–10.C0 Dulzura Hydrologic Subunit
  - Z–10.C1 Savage Hydrologic Subarea
  - Z–10.C2 Proctor Hydrologic Subarea
  - Z–10.C3 Jamul Hydrologic Subarea
  - Z–10.C4 Lee Hydrologic Subarea
  - Z–10.C5 Lyon Hydrologic Subarea
  - Z–10.C6 Dulzura Hydrologic Subarea
  - Z–10.C7 Engineer Springs Hydrologic Subarea

Z–11.00 TIA JUANA HYDROLOGIC UNIT
- Z–11.A0 Tia Juana Hydrologic Subunit
  - Z–11.A1 Tia Juana Hydrologic Subarea
  - Z–11.A2 San Ysidro Hydrologic Subarea
- Z–11.B0 Potrero Hydrologic Subunit
  - Z–11.B1 Marron Hydrologic Subarea
  - Z–11.B2 Bee Canyon Hydrologic Subarea
  - Z–11.B3 Barrett Hydrologic Subarea
  - Z–11.B4 Round Potrero Hydrologic Subarea
  - Z–11.B5 Potrero Hydrologic Subarea
- Z–11.C0 Barrett Lake Hydrologic Subunit
- Z–11.D0 Monument Hydrologic Subunit
  - Z–11.D1 Pine Hydrologic Subarea
  - Z–11.D2 Monument Hydrologic Subarea
- Z–11.E0 Morena Hydrologic Subunit
- Z–11.F0 Cottonwood Hydrologic Subunit
- Z–11.G0 Cameron Hydrologic Subunit
- Z–11.H0 Campo Hydrologic Subunit
  - Z–11.H1 Tecate Hydrologic Subarea
  - Z–11.H2 Campo Hydrologic Subarea
  - Z–11.H3 Clover Flat Hydrologic Subarea
  - Z–11.H4 Hill Hydrologic Subarea
  - Z–11.H5 Hipass Hydrologic Subarea

NAMES AND AREAL CODE NUMBERS OF HYDROLOGIC AREAS SAN DIEGO DRAINAGE PROVINCE (Z)

DEPARTMENT OF WATER RESOURCES, SOUTHERN DISTRICT, 1966

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