219

Summary:

on 4/19/83, Tu between 13 - 15.00 p.m.
I sampled Temescal wash at four (4) stations.

1 Dawson Cyn. Rd. & Temescal Cyn. Rd.
2. Cajalco Rd. & Temescal Cyn. Rd
3. Magnolia & Sixth st in Corona. (T3S/R6W/32)
4 - 3rd st. & E Grand Blvd in Corona.

Sampled for Mineral Analysis.

Ca^{++}, Mg^{++}, Na^{+},
OH^{-}, $CO_3^{=}$, HCO_3^{-}, Cl^{-}, $SO_4^{=}$, TDS,
Total Alk, CO_2, Total Hardness, pH
E.C., Silica, B, Iron, NO_3^{-}, NH_3, $PO_4^{\equiv}$

Sample No. 1 T-1 Temescal wash

Time: 13:15

Date: 4/19/83

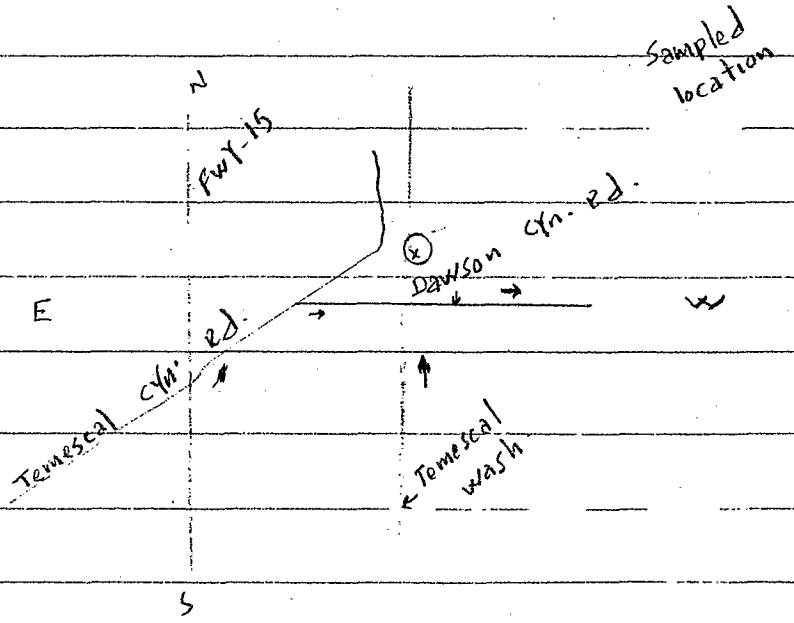
weather: partial cloudy

water Temp: 23°C

Air Temp: 70°F

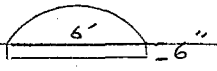
water app: clear

location:



Tested for: Mineral analysis

flow:



$(.5)(6') = 3\ ft^2$

$v = 4\ ft/10\ sec.$

$Q = vA$

$Q = (.4)(3)$

$= 1.2\ ft^3/sec.$

Sample No. 2 T_2 Temescal wash

Time: 14:00 P.M.

Date: 4/19/83

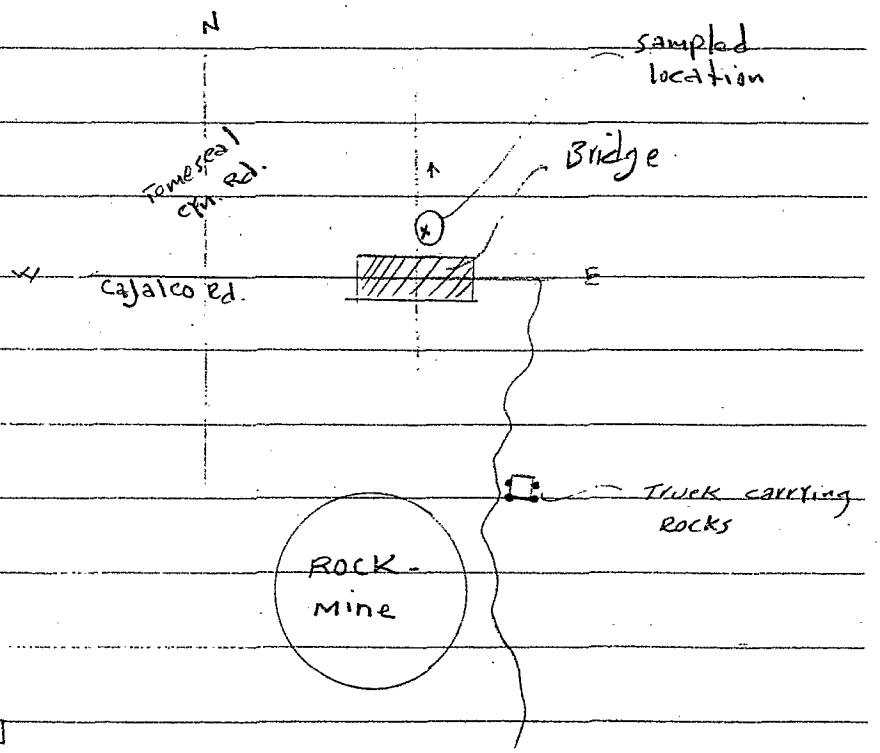
weather: sunny

water Temp: 21°c

Air Temp: 72°F

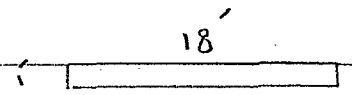
water app: muddy

location



Tested for: Mineral analysis

flow:



v = 1'/sec

$Q = vA$

$= (1)(18)$

$= 18\ ft^3/sec$

Sample No. 3 T_3 Temescal wash

Time: 14:45

Date: 4/19/83

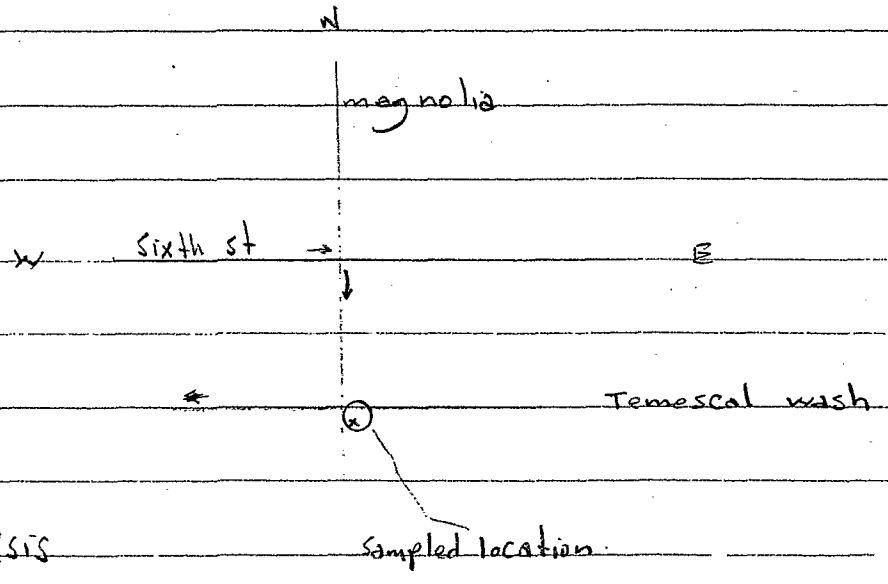
weather: sunny

water Temp: 17°C

air Temp: 70°F

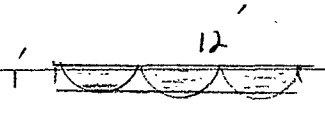
water app: little green

location



Tested for: Mineral Analysis

flow:



v = 1.5'/sec

$Q = VA$

$Q = (1.5)(12) =$

$= 18 \text{ ft}^3/\text{sec}$

Sample No. 4 T-4 Temescal wash

Time : 15:15

Date : 4/19/83

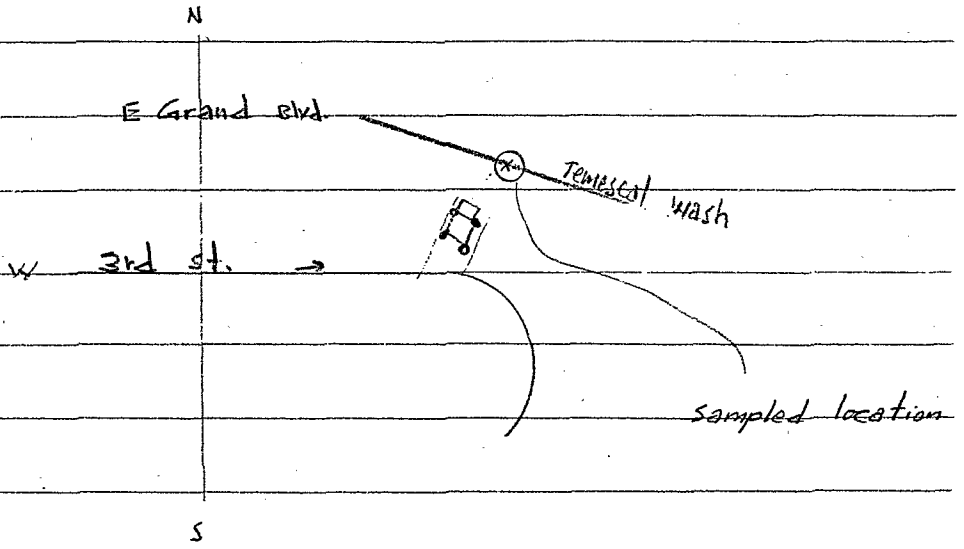
weather : cloudy

water Temp : 19°c

air Temp : 68°F

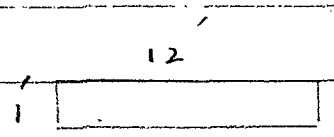
water app : not clear

location :



Tested for : mineral Analysis

flow :



$v = 1.5'/sec$

$Q = vA$

$= (1.5)(12)$

$Q = 18\ ft^3/sec.$

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE CHINO, CALIFORNIA 91710 (714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO. 3040842

DATE RECEIVED 4-19-83

DATE OF REPORT 5-3-83

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD Santa Ana Region

ADDRESS 6809 Indiana Ave. Riverside, Ca 92506

ATTENTION James W. Anderson

SAMPLE IDENTIFICATION Surface Water - grab sample

SAMPLING POINT Temescal wash T-1

SAMPLED BY Kamron Sarami/ CRWQCB - SAR

DATES & HOURS SAMPLED 4-19-83; 1315 hours

MAY 6 1983

PARAMETER	VALUE		PARAMETER	VALUE	
Aluminum		mg/l	Nickel		mg/l
Ammonia (N)	<0.03	mg/l	Nitrate (N)	6.82	mg/l
Antimony		mg/l	Oil & Grease		mg/l
Arsenic		mg/l	pH	8.48	
BOD		mg/l	Phenols		mg/l
Barium		mg/l	Phosphate - Ortho	8.41	mg/l
Beryllium		mg/l	Phosphate, Total		mg/l
Bismuth		mg/l	Potassium	3.02	mg/l
Boron	0.09	mg/l	Selenium		mg/l
COD		mg/l	Settleable Solids		ml/l
Cadmium		mg/l	Silver		mg/l
Calcium	76.7	mg/l	Sodium	43.5	mg/l
Chloride	29.8	mg/l	Specific Conductance 721		micromhos/cm
Chlorinated Hydrocarbons- C_1 - C_6		mg/l	Sulfate	175	mg/l
Chromium (Hexavalent)		mg/l	Sulfide		mg/l
Chromium (Total)		mg/l	Surfactants (MBAS)		mg/l
Cobalt		mg/l	Suspended Solids		mg/l
Copper		mg/l	Temperature		°F
Cyanide		mg/l	Tin		mg/l
Dissolved Oxygen		mg/l	Titanium		mg/l
Flow (total)		gals/day	Total Alkalinity	101	mg/l
Flow (peak)		gals/min	Bicarbonate Alkalinity	99	mg/l
Fluoride		mg/l	Carbonate Alkalinity	2	mg/l
Iron	<0.02	mg/l	Total Dissolved Solids - (Filterable Residue)	488	mg/l
Lead		mg/l	Total Hardness	254	mg/l
Magnesium	15.1	mg/l	Turbidity		Units
Manganese		mg/l	Zinc		mg/l
Mercury		mg/l			

Hydroxide Alkalinity	0	mg/l	Silica	32.7	mg/l
			Carbon Dioxide	0	mg/l

SAWPA DES
001006107

Laboratory Director

All samples are analyzed by "Standard Methods" of APHA or EPA, "Methods for Chemical Analysis of Water and Waste".

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE CHINO, CALIFORNIA 91710 (714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO. 3040843

DATE RECEIVED 4-19-83

DATE OF REPORT 5-3-83

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD Santa Ana Region

ADDRESS 6809 Indiana Ave Riverside, CA 92506

ATTENTION James W. Anderson

SAMPLE IDENTIFICATION Surface Water - grab sample

SAMPLING POINT Temescal wash T-2

SAMPLED BY Kamron Saremi; CRWQCB-SAR

DATES & HOURS SAMPLED 4-19-83; 1400 hours

MAY - 6 1983

PARAMETER	VALUE		PARAMETER	VALUE	
Aluminum		mg/l	Nickel		mg/l
Ammonia (N)	0.05	mg/l	Nitrate (N)	1.78	mg/l
Antimony		mg/l	Oil & Grease		mg/l
Arsenic		mg/l	pH	8.21	
BOD		mg/l	Phenols		mg/l
Barium		mg/l	Phosphate - Ortho	6.90	mg/l
Beryllium		mg/l	Phosphate, Total		mg/l
Bismuth		mg/l	Potassium	4.23	mg/l
Boron	0.12	mg/l	Selenium		mg/l
COD		mg/l	Settleable Solids		ml/l
Cadmium		mg/l	Silver		mg/l
Calcium	104	mg/l	Sodium	83.9	mg/l
Chloride	104	mg/l	Specific Conductance 1105		micromhos/cm
Chlorinated Hydrocarbons- C_1 - C_6		mg/l	Sulfate	203	mg/l
Chromium (Hexavalent)		mg/l	Sulfide		mg/l
Chromium (Total)		mg/l	Surfactants (MBAS)		mg/l
Cobalt		mg/l	Suspended Solids		mg/l
Copper		mg/l	Temperature		°F
Cyanide		mg/l	Tin		mg/l
Dissolved Oxygen		mg/l	Titanium		mg/l
Flow (total)		gals/day	Total Alkalinity	176	mg/l
Flow (peak)		gals/min	Bicarbonate Alkalinity	176	mg/l
Fluoride		mg/l	Carbonate Alkalinity	0	mg/l
Iron	<0.02	mg/l	Total Dissolved Solids - (Filterable Residue)	683	mg/l
Lead		mg/l	Total Hardness	371	mg/l
Magnesium	27.2	mg/l	Turbidity		Units
Manganese		mg/l	Zinc		mg/l
Mercury		mg/l			

Hydroxide Alkalinity	0	mg/l	Silica	23.8	mg/l
			Carbon Dioxide	0.9	mg/l

SAWPA DES

001006108

Laboratory Director

All samples are analyzed by "Standard Methods" of APHA or EPA, "Methods for Chemical Analysis of Water and Waste".

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE CHINO, CALIFORNIA 91710 (714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO. 3040844

DATE RECEIVED 4-19-83

DATE OF REPORT 5-3-83

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD Santa Ana Region

ADDRESS 6809 Indiana Ave Riverside, CA 92506

ATTENTION James W. Anderson

SAMPLE IDENTIFICATION Surface Water - grab sample

SAMPLING POINT Temescal Wash T-3

SAMPLED BY Kamron Sarami; CRWQCB-SAR

DATES & HOURS SAMPLED 4-19-83; 1445 hours

MAY - 6 1983

PARAMETER	VALUE		PARAMETER	VALUE	
Aluminum		mg/l	Nickel		mg/l
Ammonia (N)	0.04	mg/l	Nitrate (N)	1.97	mg/l
Antimony		mg/l	Oil & Grease		mg/l
Arsenic		mg/l	pH	8.50	
BOD		mg/l	Phenols		mg/l
Barium		mg/l	Phosphate - Ortho	6.07	mg/l
Beryllium		mg/l	Phosphate, Total		mg/l
Bismuth		mg/l	Potassium	4.28	mg/l
Boron	0.08	mg/l	Selenium		mg/l
COD		mg/l	Settleable Solids		ml/l
Cadmium		mg/l	Silver		mg/l
Calcium	103	mg/l	Sodium	91.5	mg/l
Chloride	106	mg/l	Specific Conductance 1130		micromhos/cm
Chlorinated Hydrocarbons- C_1 - C_6		mg/l	Sulfate	235	mg/l
Chromium (Hexavalent)		mg/l	Sulfide		mg/l
Chromium (Total)		mg/l	Surfactants (MBAS)		mg/l
Cobalt		mg/l	Suspended Solids		mg/l
Copper		mg/l	Temperature		°F
Cyanide		mg/l	Tin		mg/l
Dissolved Oxygen		mg/l	Titanium		mg/l
Flow (total)		gals/day	Total Alkalinity	175	mg/l
Flow (peak)		gals/min	Bicarbonate Alkalinity	159	mg/l
Fluoride		mg/l	Carbonate Alkalinity	16	mg/l
Iron	<0.02	mg/l	Total Dissolved Solids - (Filterable Residue)	708	mg/l
Lead		mg/l	Total Hardness	377	mg/l
Magnesium	29.4	mg/l	Turbidity		Units
Manganese		mg/l	Zinc		mg/l
Mercury		mg/l			

Hydroxide Alkalinity	0	mg/l	Silica	25.3	mg/
			Carbon Dioxide	0	mg/

SAWPA DES
001006109

Laboratory Director

All samples are analyzed by "Standard Methods" of APHA or EPA, "Methods for Chemical Analysis of Water and Waste".

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE CHINO, CALIFORNIA 91710 (714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO. 3040845

DATE RECEIVED 4-19-83

DATE OF REPORT 5-3-83

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD Santa Ana Region

ADDRESS 6809 Indiana Ave Riverside, CA 92506

ATTENTION James W. Anderson

SAMPLE IDENTIFICATION Surface Water - Grab sample

SAMPLING POINT Temescal Wash T-4

SAMPLED BY Kamron Sarami; CRWQCB-SAR

DATES & HOURS SAMPLED 4-19-83; 1515 hours

MAY - 6 1983

PARAMETER	VALUE		PARAMETER	VALUE	
Aluminum		mg/l	Nickel		mg/l
Ammonia (N)	0.03	mg/l	Nitrate (N)	1.85	mg/l
Antimony		mg/l	Oil & Grease		mg/l
Arsenic		mg/l	pH	8.52	
BOD		mg/l	Phenols		mg/l
Barium		mg/l	Phosphate - Ortho	6.00	mg/l
Beryllium		mg/l	Phosphate, Total		mg/l
Bismuth		mg/l	Potassium	4.14	mg/l
Boron	<0.01	mg/l	Selenium		mg/l
COD		mg/l	Settleable Solids		ml/l
Cadmium		mg/l	Silver		mg/l
Calcium	103	mg/l	Sodium	92.4	mg/l
Chloride	109	mg/l	Specific Conductance 1123		micromhos/cm
Chlorinated Hydrocarbons- C_1 - C_6		mg/l	Sulfate	224	mg/l
Chromium (Hexavalent)		mg/l	Sulfide		mg/l
Chromium (Total)		mg/l	Surfactants (MBAS)		mg/l
Cobalt		mg/l	Suspended Solids		mg/l
Copper		mg/l	Temperature		°F
Cyanide		mg/l	Tin		mg/l
Dissolved Oxygen		mg/l	Titanium		mg/l
Flow (total)		gals/day	Total Alkalinity	181	mg/l
Flow (peak)		gals/min	Bicarbonate Alkalinity	167	mg/l
Fluoride		mg/l	Carbonate Alkalinity	14	mg/l
Iron	<0.02	mg/l	Total Dissolved Solids - (Filterable Residue)	705	mg/l
Lead		mg/l	Total Hardness	380	mg/l
Magnesium	29.5	mg/l	Turbidity		Units
Manganese		mg/l	Zinc		mg/l
Mercury		mg/l			

Hydroxide Alkalinity	0.	mg/l	Silica	25.3	mg/l
			Carbon Dioxide	0	mg/l

SAWPA DES

001006110

Laboratory Director

All samples are analyzed by "Standard Methods" of APHA or EPA, "Methods for Chemical Analysis of Water and Waste".

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE CHINO, CALIFORNIA 91710 (714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO. 3041023

DATE RECEIVED 4-23-83

DATE OF REPORT 5-5-83

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD Santa Ana Region

ADDRESS 6809 Indiana Ave Riverside, CA 92506

ATTENTION James W. Anderson

SAMPLE IDENTIFICATION Surface Water - Grab sample

SAMPLING POINT Temescal Wash Tem-1

SAMPLED BY K. Saremi; CRWQCB-SAR

DATES & HOURS SAMPLED 4-22-83; 2:45

PARAMETER	VALUE		PARAMETER	VALUE	
Aluminum		mg/l	Nickel		mg/l
Ammonia (N)	0.13	mg/l	Nitrate (N)	2.44	mg/l
Antimony		mg/l	Oil & Grease		mg/l
Arsenic		mg/l	pH	8.07	
BOD		mg/l	Phenols		mg/l
Barium		mg/l	Phosphate - Ortho	5.52	mg/l
Beryllium		mg/l	Phosphate, Total		mg/l
Bismuth		mg/l	Potassium	6.86	mg/l
Boron	0.51	mg/l	Selenium		mg/l
COD		mg/l	Settleable Solids		ml/l
Cadmium		mg/l	Silver		mg/l
Calcium	121	mg/l	Sodium	386	mg/l
Chloride	404	mg/l	Specific Conductance 2880		micromhos/cm
Chlorinated Hydrocarbons- C_1 - C_6		mg/l	Sulfate	539	mg/l
Chromium (Hexavalent)		mg/l	Sulfide		mg/l
Chromium (Total)		mg/l	Surfactants (MBAS)		mg/l
Cobalt		mg/l	Suspended Solids		mg/l
Copper		mg/l	Temperature		°F
Cyanide		mg/l	Tin		mg/l
Dissolved Oxygen		mg/l	Titanium		mg/l
Flow (total)		gals/day	Total Alkalinity	261	mg/l
Flow (peak)		gals/min	Bicarbonate Alkalinity	261	mg/l
Fluoride		mg/l	Carbonate Alkalinity	0	mg/l
Iron	<0.02	mg/l	Total Dissolved Solids - (Filterable Residue)	2014	mg/l
Lead		mg/l	Total Hardness	576	mg/l
Magnesium	66.4	mg/l	Turbidity		Units
Manganese		mg/l	Zinc		mg/l
Mercury		mg/l			

Hydroxide alkalinity	0	mg/l	Silica	24.3	mg/l
Nitrite (N)	0.04	mg/l	Carbon Dioxide	4.4	mg/l
Organic Nitrogen	0.47	mg/l			

SAWPA DES

001006111

Laboratory Director

All samples are analyzed by "Standard Methods" of APHA or EPA, "Methods for Chemical Analysis of Water and Waste".

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE CHINO, CALIFORNIA 91710 (714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO. 3041024

DATE RECEIVED 4-23-83

DATE OF REPORT 5-5-83

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD Santa Ana Region

ADDRESS 6809 Indiana Ave Riverside, CA 92506

ATTENTION James W. Anderson

SAMPLE IDENTIFICATION Surface Water - Grab Sample

SAMPLING POINT Temescal Wash Tem-~~1~~ 2

SAMPLED BY K. Saremi; CRWQCB-SAR

DATES & HOURS SAMPLED 4-22-83; 3:25

PARAMETER	VALUE		PARAMETER	VALUE	
Aluminum		mg/l	Nickel		mg/l
Ammonia (N)	0.09	mg/l	Nitrate (N)	0.77	mg/l
Antimony		mg/l	Oil & Grease		mg/l
Arsenic		mg/l	pH	7.75	
BOD		mg/l	Phenols		mg/l
Barium		mg/l	Phosphate - Ortho	6.07	mg/l
Beryllium		mg/l	Phosphate, Total		mg/l
Bismuth		mg/l	Potassium	10.0	mg/l
Boron	0.82	mg/l	Selenium		mg/l
COD		mg/l	Settleable Solids		ml/l
Cadmium		mg/l	Silver		mg/l
Calcium	123	mg/l	Sodium	505	mg/l
Chloride	484	mg/l	Specific Conductance 3330		micromhos/cm
Chlorinated Hydrocarbons- C_1 - C_6		mg/l	Sulfate	744	mg/l
Chromium (Hexavalent)		mg/l	Sulfide		mg/l
Chromium (Total)		mg/l	Surfactants (MBAS)		mg/l
Cobalt		mg/l	Suspended Solids		mg/l
Copper		mg/l	Temperature		°F
Cyanide		mg/l	Tin		mg/
Dissolved Oxygen		mg/l	Titanium		mg/
Flow (total)		gals/day	Total Alkalinity	278	mg/
Flow (peak)		gals/min	Bicarbonate Alkalinity	278	mg/
Fluoride		mg/l	Carbonate Alkalinity	0	mg/
Iron	< 0.02	mg/l	Total Dissolved Solids - (Filterable Residue)	2493	mg/
Lead		mg/l	Total Hardness	626	mg/
Magnesium	77.2	mg/l	Turbidity		Units
Manganese		mg/l	Zinc		mg/
Mercury		mg/l			

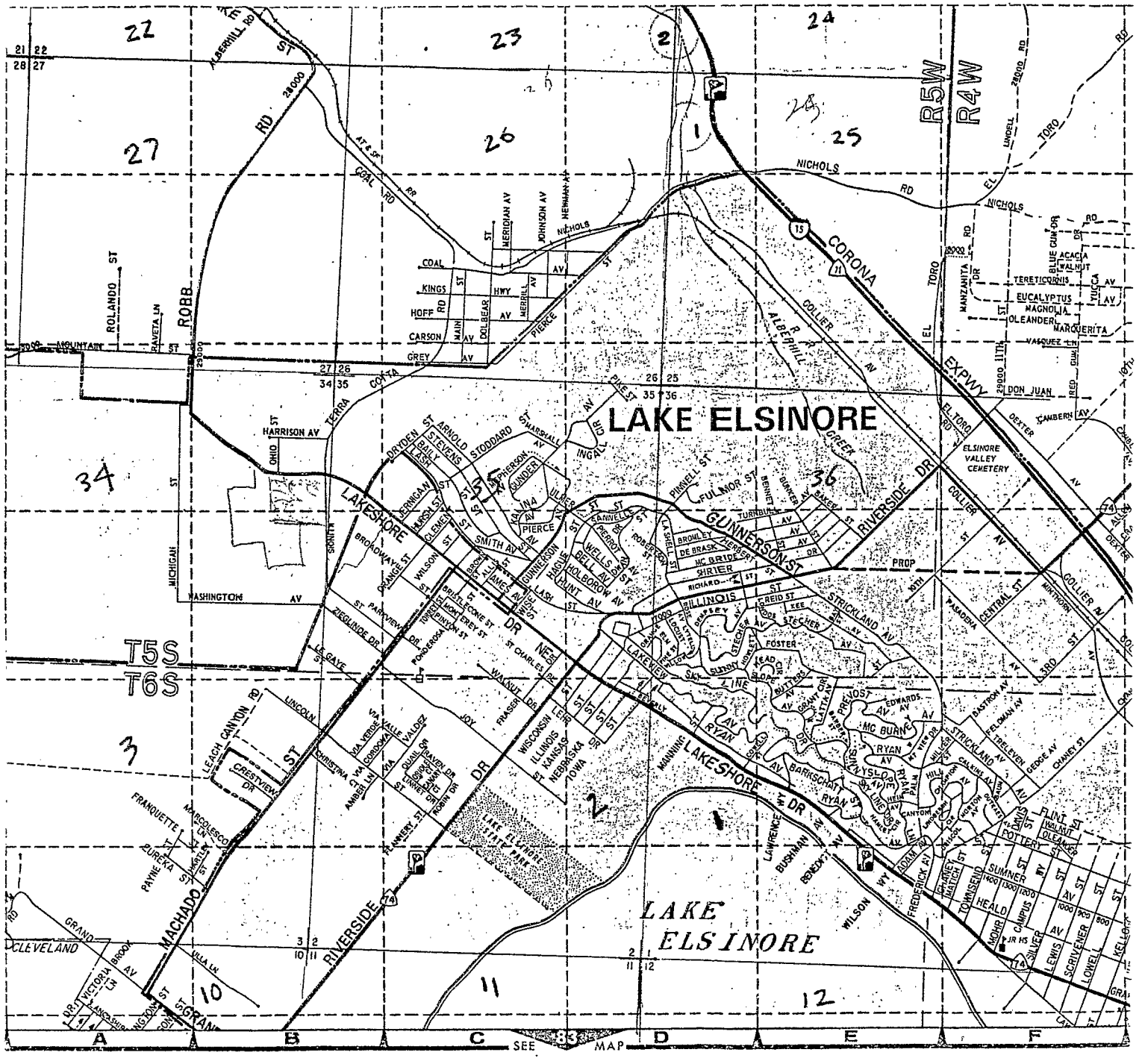
Hydroxide Alkalinity	0	mg/l	Silica	16.5	mg/
Nitrite (N)	0.02	mg/l	Carbon Dioxide	10.8	mg/
Organic Nitrogen	0.87	mg/l			

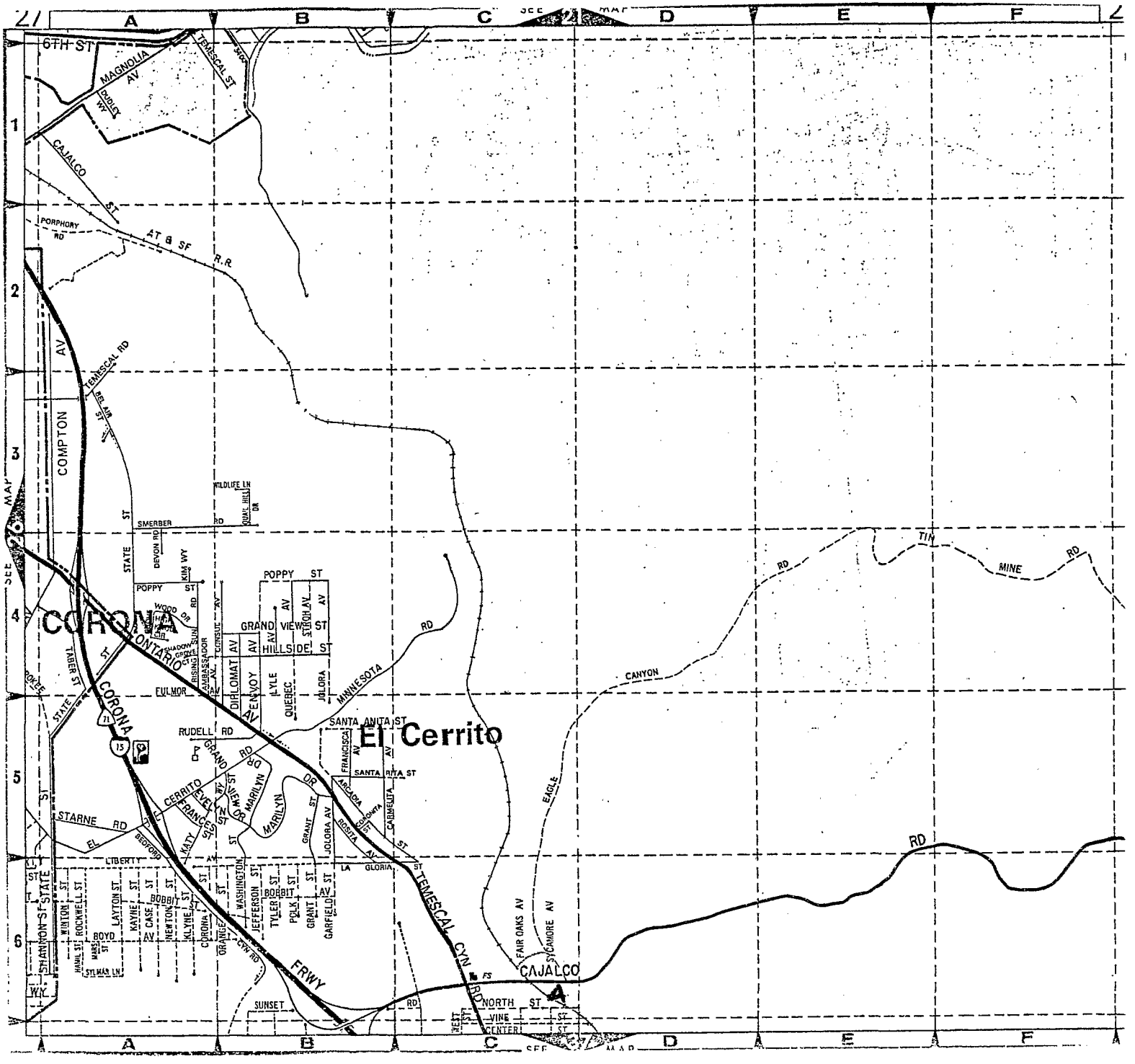
SAWPA DES

001006112

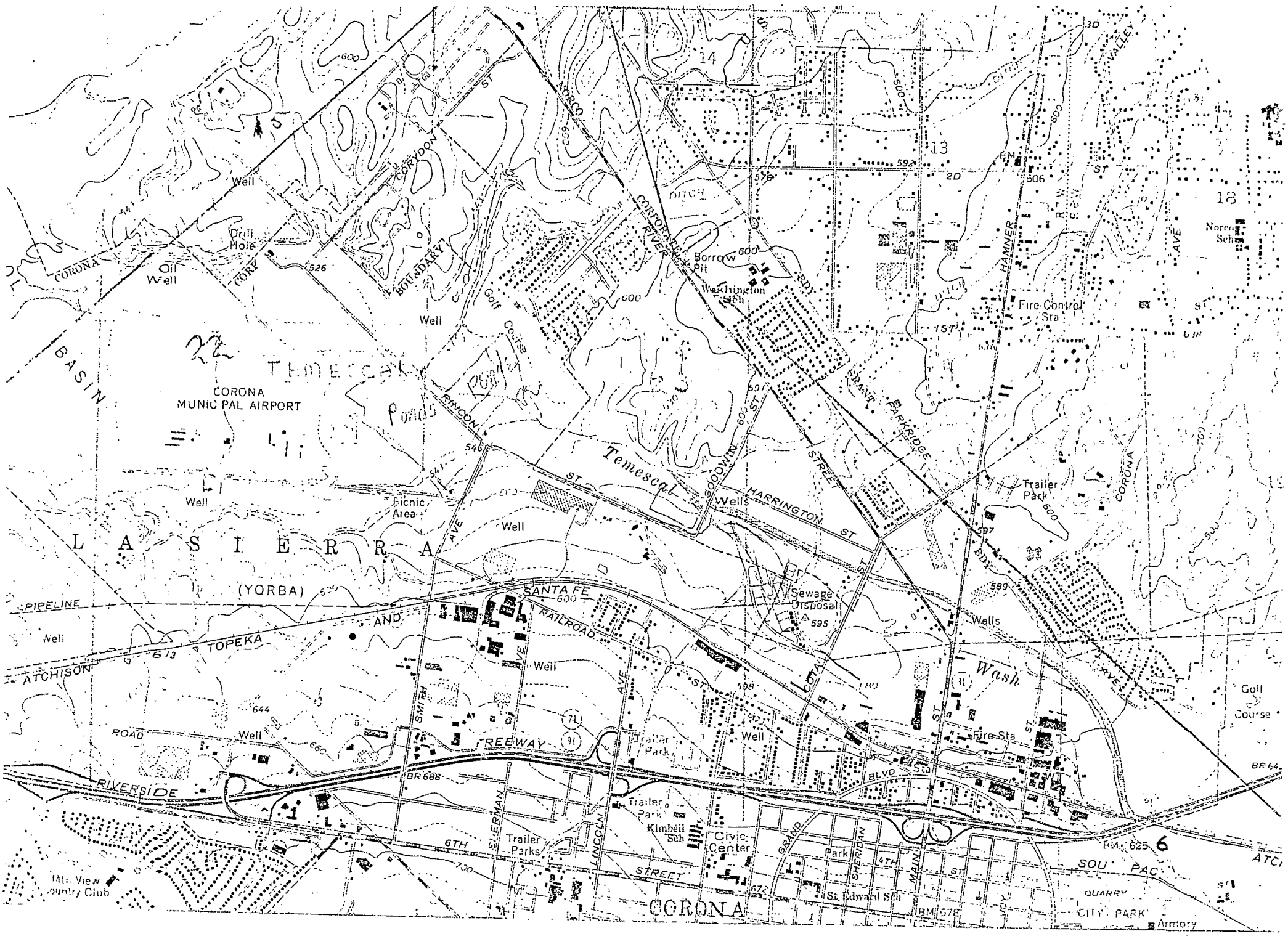
Laboratory Director

All samples are analyzed by "Standard Methods" of APHA or EPA, "Methods for Chemical Analysis of Water and Waste".

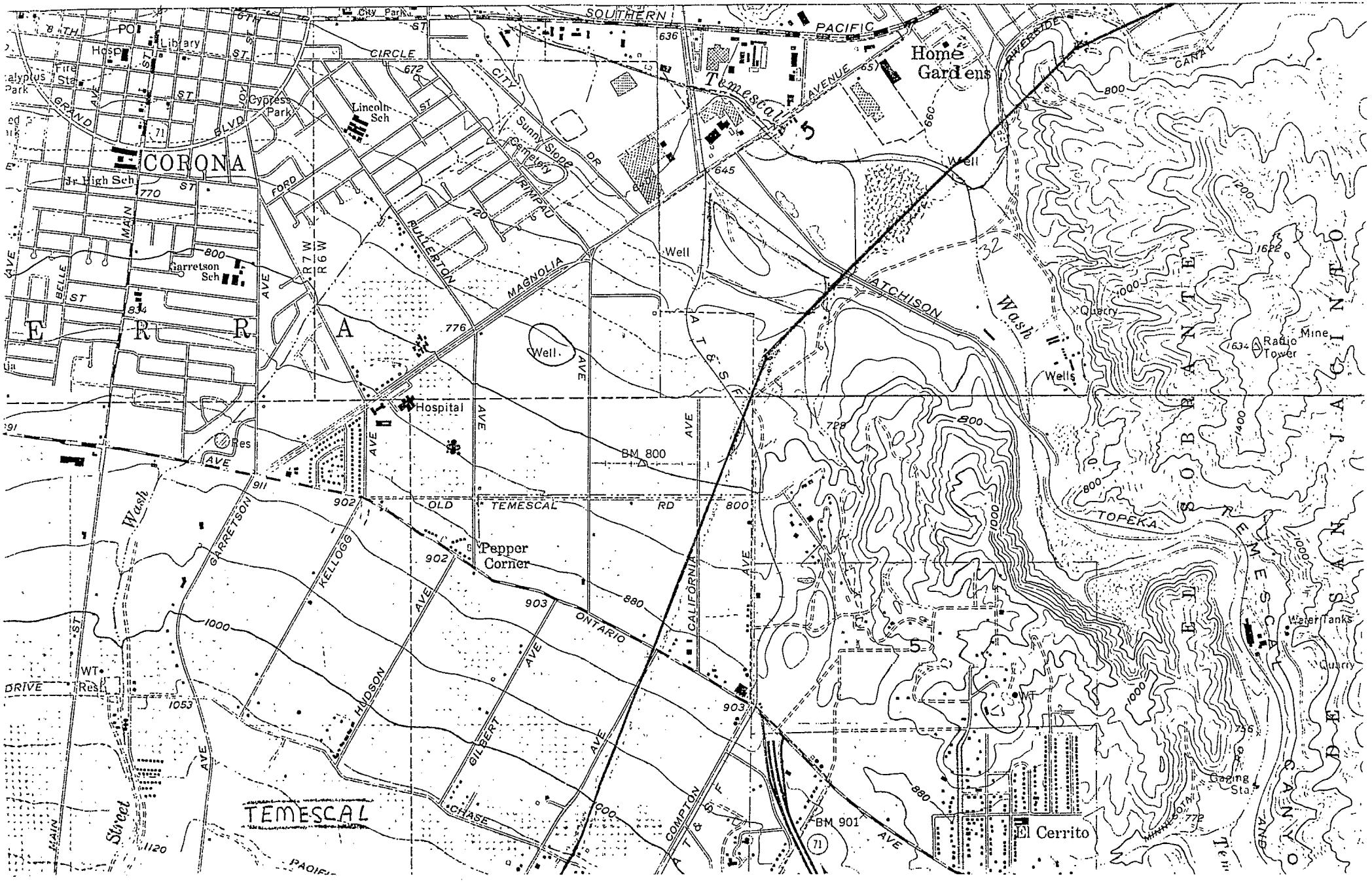

LAKE ELSINORE
LAKE ELSINORE
LAKE ELSINORE STATE PARK
ELSINORE VALLEY CEMETERY
CORONA EXPWY
RIVERSIDE DR
GUNNERSON ST
LAKESHORE DR
MACHADO ST
ROBB RD
NICHOLS RD
COLLIER AV
ALBERHILL RD
T5S
T6S
R5W
R4W
SEE MAP
A
B
C
D
E
F



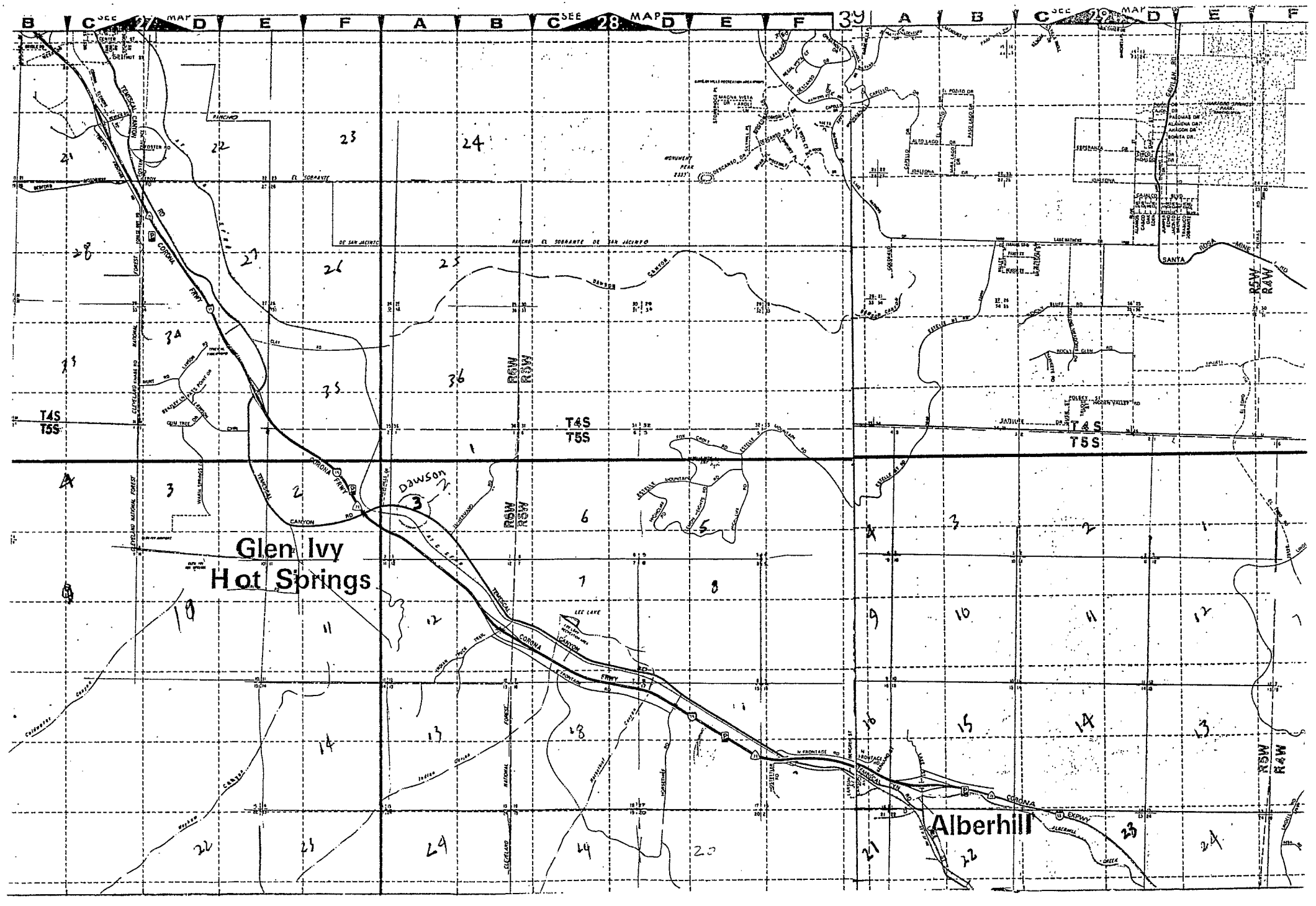
A
B
C
D
E
F
1
2
3
4
5
6
6TH ST
MAGNOLIA AV
TEMESCAL ST
CAJALCO ST
PORPHORY RD
AT & SF R.R.
COMPTON AV
TEMESCAL RD
BEL AIR ST
WILDLIFE LN
QUAIL HILL DR
SMERBER RD
STATE ST
DEVON RD
KIM WY
POPPY ST
WOOD DR
CORONA
ONTARIO
SHADOW GROVE CT
RISING SUN
AMBASSADOR AV
CONSUL AV
DIPLOMAT AV
ENVOY AV
GRAND VIEW ST
HILLSIDE ST
LYLE
QUEBEC
JOLORA
MINNESOTA RD
FULMOR
TABER ST
STATE ST
CORONA
RUDELL RD
GRAND RD
SANTA ANITA ST
El Cerrito
FRANCISCA AV
SANTA RITA ST
ARCADIA
CORONITA
CARMELITA
ROSITA AV
CERRITO
EVELYN ST
FRANCES ST
MARILYN DR
MARILYN
GRANT ST
JOLORA AV
STARNE RD
EL
BEDFORD
LIBERTY AV
KATY
LA GLORIA ST
TEMESCAL CYN RD
WASHINGTON
JEFFERSON ST
BOBBIT ST
TYLER ST
POLK ST
GRANT ST
GARFIELD ST
BOBBIT
KLYNE ST
NEWTON ST
CASE
KAYNE ST
LAYTON ST
BOYD AV
ROCKWELL ST
WINTON ST
HAMIL ST
MARS ST
SYLMAR LN
SHANNON ST
STATE ST
WY
FRWY
SUNSET RD
CAJALCO
NORTH ST
VINE ST
CENTER ST
WEST ST
FAIR OAKS AV
SYCAMORE AV
EAGLE
CANYON RD
TIN MINE RD
RD



CORONA MUNICIPAL AIRPORT
TEMESCAL
Ponds
Temescal
Wash
LA SIERRA
(YORBA)
BASIN
CORONA
Well
Drill Hole
Oil Well
Picnic Area
Golf Course
Borrow Pit
Washington Sch
Fire Control Sta
Norco Sch
Trailer Park
Sewage Disposal
Wells
Fire Sta
Kimbell Sch
Civic Center
Trailer Parks
St. Edward Sch
Mtn. View Country Club
CITY PARK
Armory
CORONA
CORPORATE RIVER
NORCO
CORYDON
BOUNDARY
RINCON
GOODWIN
HARRINGTON ST
STREET
PARKRIDGE
HAMNER
VALLEY
CORONA
SANTA FE
RAILROAD
ATCHISON
TOPEKA
AND
PIPELINE
ROAD
FREEWAY
RIVERSIDE
SMITH
SHERMAN
LINCOLN
GRAND
SHERIDAN
MAIN
6TH
4TH
SOU PAC
QUARRY
BLVD
BR 688
BR 64



SOUTHERN PACIFIC
Home Gardens
Temescal
CORONA
Library
Fire Sta
Cypress Park
Lincoln Sch
Jr High Sch
Garretson Sch
Sunny Slope Cemetery
Well
Hospital
Res
BM 800
OLD TEMESCAL RD
Pepper Corner
ONTARIO
CALIFORNIA
GARRETSON
KELLOGG
HUDSON
GILBERT
CHASE
COMPTON
MAGNOLIA
FULLERTON
RIMPAU
CITY
CIRCLE
FORD
MAIN
BELLE
GRAND
BLVD
JOY
AVENUE
RIVERSIDE
CANAL
ATCHISON
TOPEKA
Wash
Quarry
Wells
Radio Tower
Mine
Water Tanks
Gaging Sta
El Cerrito
BM 901
TEMESCAL
Street
WT
Res
DRIVE
R7W
R6W



Glen Ivy
Hot Springs
Alberhill
Dawson
T4S
T5S
R6W
R5W
R4W
CORONA FRWY
TEMESCAL CANYON RD
CORONA EXPWY
LEE LAKE

Temescal wash 4/22/03

Temescal wash sampling starts from Nichols Rd., off FWY 15 south, & stops in Corona.

Sampling points are as follows:

Concrete channel. T 5S, R5W, Sec. 25 E

Temescal wash, T 5S, R5W, Sec. 23

Temescal Cyn. Rd. & Dawson Cyn. Rd T5S/R6W/Sec. 1

Temescal Cyn. Rd. & Cajalco Rd T4S/R6W/Sec 16

Magnolia & Sixth St. in Corona T3S/R6W/Sec 22

E. Grand Blvd. & 3rd St. in Corona T3S/R6W/Sec. 27

Concrete channel, north of Nichols Rd T55/R5W/Sec. 25

Time: 14:45, Date: 4/22/83; water Temp: 70°F, water app: not clear w/ Algae on the side.

Flow: 1.2 ft^3/Sec. Tam-1

PARAMETER	VALUE		PARAMETER	VALUE	
uminum		mg/l	Nickel		mg/l
mmonia (N)	0.13	mg/l	Nitrate (N)	2.44	mg/l
timony		mg/l	Oil & Grease		mg/l
senic		mg/l	pH	8.07	
O D		mg/l	Phenols		mg/l
rium		mg/l	Phosphate - Ortho	5.52	mg/l
eryllium		mg/l	Phosphate, Total		mg/l
smuth		mg/l	Potassium	6.86	mg/l
ron	0.51	mg/l	Selenium		mg/l
O D		mg/l	Settleable Solids		ml/l
admium		mg/l	Silver		mg/l
alcium	121	mg/l	Sodium	386	mg/l
loride	404	mg/l	Specific Conductance 2880		micromhos/cm
lorinated Hydrocarbons- C_1 - C_6		mg/l	Sulfate	539	mg/l
romium (Hexavalent)		mg/l	Sulfide		mg/l
romium (Total)		mg/l	Surfactants (MBAS)		mg/l
obalt		mg/l	Suspended Solids		mg/l
opper		mg/l	Temperature		°F
yanide		mg/l	Tin		mg/l
ssolved Oxygen		mg/l	Titanium		mg/l
ow (total)		gals/day	Total Alkalinity	261	mg/l
ow (peak)		gals/min	Bicarbonate Alkalinity	261	mg/l
uoride		mg/l	Carbonate Alkalinity	0	mg/l
on	<0.02	mg/l	Total Dissolved Solids - (Filterable Residue)	2014	mg/l
ead		mg/l	Total Hardness	576	mg/l
agnesium	66.4	mg/l	Turbidity		Units
anganese		mg/l	Zinc		mg/l
ercury		mg/l			

Hydroxide alkalinity	0	mg/l	Silica	24.3	mg/l
Nitrite (N)	0.04	mg/l	Carbon Dioxide	4.4	mg/l
Organic Nitrogen	0.47	mg/l			

SAWPA DES

001006101

Laboratory Director

All samples are analyzed by "Standard Methods" of APHA or EPA, "Methods for Chemical Analysis of Water and Waste".

Temescal wash, north of Nichols Rd. T5S/R5W/sec 23

north of sampling pt 1 (ana)

Time: 15:25, Date: 4/22/83, water Temp: 63 °F, water app: not clear

Temp 2

Flow: ~ 6 ft^3/sec.

PARAMETER	VALUE		PARAMETER	VALUE	
uminum		mg/l	Nickel		mg/l
nmonia (N)	0.09	mg/l	Nitrate (N)	0.77	mg/l
ntimony		mg/l	Oil & Grease		mg/l
senic		mg/l	pH	7.75	
O D		mg/l	Phenols		mg/
arium		mg/l	Phosphate - Ortho	6.07	mg/
eryllium		mg/l	Phosphate, Total		mg/
smuth		mg/l	Potassium	10.0	mg/
oron	0.82	mg/l	Selenium		mg/
O D		mg/l	Settleable Solids		ml/
admium		mg/l	Silver		mg/
alcium	123	mg/l	Sodium	505	mg/
hloride	484	mg/l	Specific Conductance 3330		micromhos/cm
nlorinated Hydrocarbons- C_1 - C_6		mg/l	Sulfate	744	mg/
hromium (Hexavalent)		mg/l	Sulfide		mg/
nromium (Total)		mg/l	Surfactants (MBAS)		mg/
obalt		mg/l	Suspended Solids		mg/
opper		mg/l	Temperature		°F
yanide		mg/l	Tin		mg/
issolved Oxygen		mg/l	Titanium		mg/
low (total)		gals/day	Total Alkalinity	278	mg/
low (peak)		gals/min	Bicarbonate Alkalinity	278	mg/
luoride		mg/l	Carbonate Alkalinity	0	mg/
on	< 0.02	mg/l	Total Dissolved Solids - (Filterable Residue)	2493	mg/
ead		mg/l	Total Hardness	626	mg/
lagnesium	77.2	mg/l	Turbidity		Units
langanese		mg/l	Zinc		mg/l
lercury		mg/l			

Hydroxide Alkalinity	0	mg/l	Silica	16.5	mg/
Nitrite (N)	0.02	mg/l	Carbon Dioxide	10.8	mg/
Organic Nitrogen	0.87	mg/l			

SAWPA DES

001006102

Laboratory Director

All samples are analyzed by "Standard Methods" of APHA or EPA, "Methods for Chemical Analysis of Water and Waste".

Temescal Cyn. Rd & Dawson Cyn. Rd. T5S/R6W/Sec.1

Time: 13:15 Date: 4/19/83, water Temp: 74 °F, water app: clear

Flow: 1.2 ft³/sec. T-1

PARAMETER	VALUE		PARAMETER	VALUE	
uminum		mg/l	Nickel		mg/l
nmonia (N)	<0.03	mg/l	Nitrate (N)	6.82	mg/l
ıtimony		mg/l	Oil & Grease		mg/l
senic		mg/l	pH	8.48	
O D		mg/l	Phenols		mg/l
ırium		mg/l	Phosphate - Ortho	8.41	mg/l
eryllium		mg/l	Phosphate, Total		mg/l
smuth		mg/l	Potassium	3.02	mg/l
oron	0.09	mg/l	Selenium		mg/l
O D		mg/l	Settleable Solids		ml/l
admium		mg/l	Silver		mg/l
alcium	76.7	mg/l	Sodium	43.5	mg/l
hloride	29.8	mg/l	Specific Conductance 721		micromhos/cm
hlorinated Hydrocarbons- C_1 - C_6		mg/l	Sulfate	175	mg/l
hromium (Hexavalent)		mg/l	Sulfide		mg/l
hromium (Total)		mg/l	Surfactants (MBAS)		mg/l
obalt		mg/l	Suspended Solids		mg/l
opper		mg/l	Temperature		°F
yanide		mg/l	Tin		mg/l
issolved Oxygen		mg/l	Titanium		mg/l
ow (total)		gals/day	Total Alkalinity	101	mg/l
ow (peak)		gals/min	Bicarbonate Alkalinity	99	mg/l
luoride		mg/l	Carbonate Alkalinity	2	mg/l
on	<0.02	mg/l	Total Dissolved Solids - (Filterable Residue)	488	mg/l
ead		mg/l	Total Hardness	254	mg/l
lagnesium	15.1	mg/l	Turbidity		Units
langanese		mg/l	Zinc		mg/l
lercury		mg/l			

Hydroxide Alkalinity	0	mg/l	Silica	32.7	mg/
			Carbon Dioxide	0	mg/

SAWPA DES

001006103

Laboratory Director

All samples are analyzed by "Standard Methods" of APHA or EPA, "Methods for Chemical Analysis of Water and Waste".

Temescal Cyn. Rd. & Cajalco Rd. T4S/R6W/Sec. 16

Time: 14:00, Date: 4/19/83, Water Temp: 70°F, Water app: Muddy

Flow: 18 ft³/sec. T-2

PARAMETER	VALUE		PARAMETER	VALUE	
uminum		mg/l	Nickel		mg/l
mmonia (N)	0.05	mg/l	Nitrate (N)	1.78	mg/
ntimony		mg/l	Oil & Grease		mg/
senic		mg/l	pH	8.21	
O D		mg/l	Phenols		mg/
arium		mg/l	Phosphate - Ortho	6.90	mg/
eryllium		mg/l	Phosphate, Total		mg/
smuth		mg/l	Potassium	4.23	mg/
oron	0.12	mg/l	Selenium		mg/
O D		mg/l	Settleable Solids		ml/
admium		mg/l	Silver		mg/
alcium	104	mg/l	Sodium	83.9	mg/l
hloride	104	mg/l	Specific Conductance 1105		micromhos/cm
hlorinated Hydrocarbons- C_1 - C_6		mg/l	Sulfate	203	mg/l
hromium (Hexavalent)		mg/l	Sulfide		mg/l
hromium (Total)		mg/l	Surfactants (MBAS)		mg/l
obalt		mg/l	Suspended Solids		mg/l
opper		mg/l	Temperature		°F
yanide		mg/l	Tin		mg/l
ssolved Oxygen		mg/l	Titanium		mg/l
ow (total)		gals/day	Total Alkalinity	176	mg/l
ow (peak)		gals/min	Bicarbonate Alkalinity	176	mg/l
uoride		mg/l	Carbonate Alkalinity	0	mg/l
on	<0.02	mg/l	Total Dissolved Solids - (Filterable Residue)	683	mg/l
ead		mg/l	Total Hardness	371	mg/l
agnesium	27.2	mg/l	Turbidity		Units
anganese		mg/l	Zinc		mg/l
ercury		mg/l			

Hydroxide Alkalinity	0	mg/l	Silica	23.8	mg/l
			Carbon Dioxide	0.9	mg/l

SAWPA DES

001006104

Laboratory Director

All samples are analyzed by "Standard Methods" of APHA or EPA, "Methods for Chemical Analysis of Water and Waste".

Magnolia & Sixth st. in Corona, south of Sixth st, cross magnolia T3S/R6W/Sec 32

Time: 14:45, Date: 4/19/83, water Temp: 63, water app: little grn flow: 18 ft³/sec T-3

PARAMETER	VALUE		PARAMETER	VALUE	
luminum		mg/l	Nickel		mg/
mmonia (N)	0.04	mg/l	Nitrate (N)	1.97	mg/
ntimony		mg/l	Oil & Grease		mg/
rsenic		mg/l	pH	8.50	
O D		mg/l	Phenols		mg/
arium		mg/l	Phosphate - Ortho	6.07	mg/
eryllium		mg/l	Phosphate, Total		mg/
ismuth		mg/l	Potassium	4.28	mg/
oron	0.08	mg/l	Selenium		mg/
O D		mg/l	Settleable Solids		ml/
admium		mg/l	Silver		mg/
alcium	103	mg/l	Sodium	91.5	mg/
hloride	106	mg/l	Specific Conductance 1130		micromhos/cm
hlorinated Hydrocarbons- C_1 - C_6		mg/l	Sulfate	235	mg/
hromium (Hexavalent)		mg/l	Sulfide		mg/
hromium (Total)		mg/l	Surfactants (MBAS)		mg/
obalt		mg/l	Suspended Solids		mg/
opper		mg/l	Temperature		°I
yanide		mg/l	Tin		mg/
issolved Oxygen		mg/l	Titanium		mg/
low (total)		gals/day	Total Alkalinity	175	mg/
low (peak)		gals/min	Bicarbonate Alkalinity	159	mg/
luoride		mg/l	Carbonate Alkalinity	16	mg/
ron	<0.02	mg/l	Total Dissolved Solids - (Filterable Residue)	708	mg/
ead		mg/l	Total Hardness	377	mg/
agnesium	29.4	mg/l	Turbidity		Unit
anganese		mg/l	Zinc		mg/
ercury		mg/l			

Hydroxide Alkalinity	0	mg/l	Silica	25.3	mg/
			Carbon Dioxide	0	mg/

SAWPA DES

001006105

Laboratory Director

All samples are analyzed by "Standard Methods" of APHA or EPA, "Methods for Chemical Analysis of Water and Waste".

E. Grand Blvd. & 3rd St. in Corona, End of 3rd St.

T3S/R6W/Sec. 27

Time: 15:15, Date: 4/19/83, water Temp: 67 F°, water app: not clear

Flow: 18 ft³/sec

T-4

PARAMETER	VALUE		PARAMETER	VALUE	
uminum		mg/l	Nickel		mg/l
mmonia (N)	0.03	mg/l	Nitrate (N)	1.85	mg/l
ntimony		mg/l	Oil & Grease		mg/l
senic		mg/l	pH	8.52	
O D		mg/l	Phenols		mg/l
rium		mg/l	Phosphate - Ortho	6.00	mg/l
eryllium		mg/l	Phosphate, Total		mg/l
smuth		mg/l	Potassium	4.14	mg/l
oron	<0.01	mg/l	Selenium		mg/l
O D		mg/l	Settleable Solids		ml/l
admium		mg/l	Silver		mg/l
alcium	103	mg/l	Sodium	92.4	mg/l
hloride	109	mg/l	Specific Conductance 1123		micromhos/cm
hlorinated Hydrocarbons- C_1 - C_6		mg/l	Sulfate	224	mg/l
hromium (Hexavalent)		mg/l	Sulfide		mg/l
hromium (Total)		mg/l	Surfactants (MBAS)		mg/l
obalt		mg/l	Suspended Solids		mg/l
opper		mg/l	Temperature		°F
yanide		mg/l	Tin		mg/l
issolved Oxygen		mg/l	Titanium		mg/l
ow (total)		gals/day	Total Alkalinity	181	mg/l
ow (peak)		gals/min	Bicarbonate Alkalinity	167	mg/l
luoride		mg/l	Carbonate Alkalinity	14	mg/l
on	<0.02	mg/l	Total Dissolved Solids - (Filterable Residue)	705	mg/l
ead		mg/l	Total Hardness	380	mg/l
agnesium	29.5	mg/l	Turbidity		Units
langanese		mg/l	Zinc		mg/l
ercury		mg/l			

Hydroxide Alkalinity	0.	mg/l	Silica	25.3	mg/l
			Carbon Dioxide	0	mg/l

SAWPA DES

001006106

Laboratory Director

All samples are analyzed by "Standard Methods" of APHA or EPA, "Methods for Chemical Analysis of Water and Waste".

Summary:

On 4/22/83, Fri, 14-16.00 P.M. I sampled Temescal wash at two stations.

one sample was taken at a concrete wash north of Nichols Rd on a dirt road this concrete channel goes under the dirt road and appears further north again.

Second sample was taken further north when the road splits and turns left.

Samples were tested for mineral analysis, Nitrogen Series

Sample No. 1 Tem - 1 Temescal wash

Time: 14:45

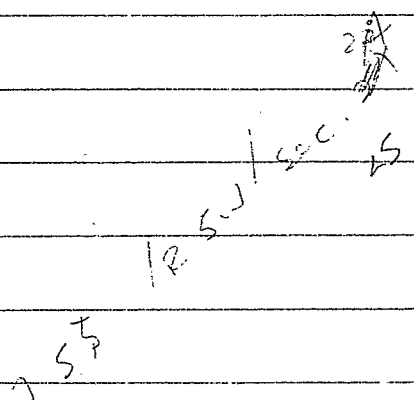
Date: 4/22/83

weather: Sunny, 70°F

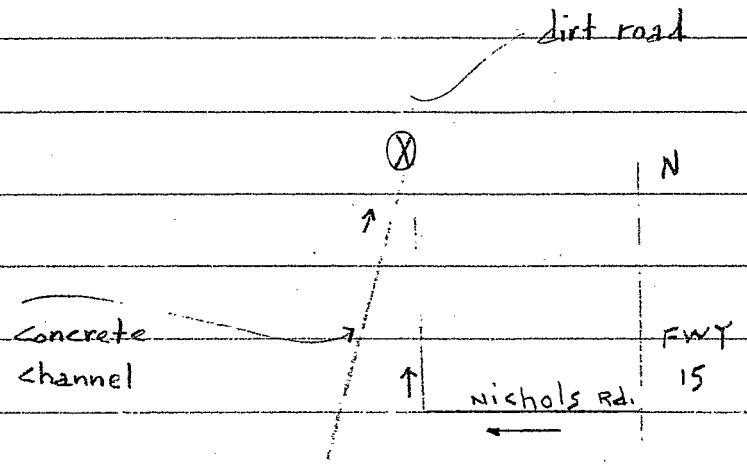
water Temp: 21°C

water app: not clear

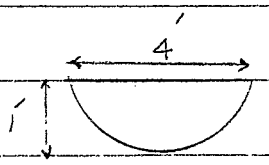
Algae is Growing on the Bank



Location:



App. flow:



cross sectional area $4' \times 1 = 4'\ ft^2$

velocity = 6'/20 sec.

$Q = V A$

$= (6'/20)(4')$

$Q = 1.2\ ft^3/sec.$

Sample No. 2 Tem-2 Temescal wash

Time: 15:25

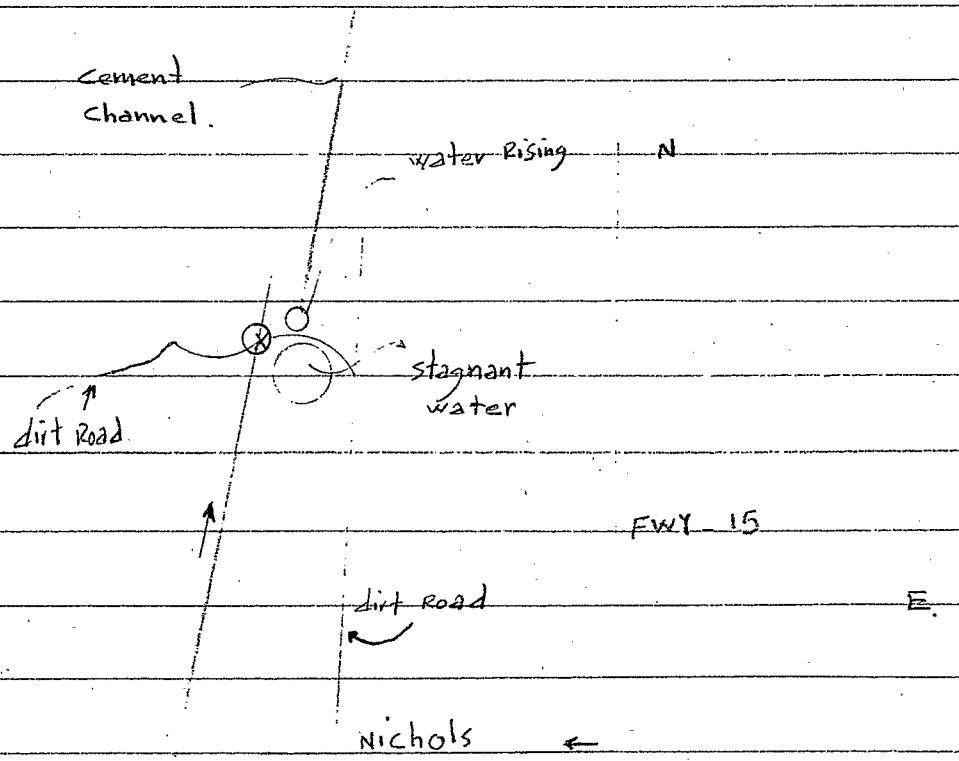
Date: 4/22/83

weather: Sunny 70°F

water Temp: 17°C

water app: not clear

Location:



App. flow

$Q = 6\ ft^3/sec.$

Inland Water Bodies

1. Temescal Creek:

- Beneficial Uses: AGR, IND, GWR, REC1, REC2, WARM, WILD, RARE, SPWN, LWRM
- Hydrologic Unit: 801.25
- Total Water Body Size:
- Size Impaired: Unknown at this time
- Extent of Impairment: Unknown at this time
- Data Analyses:

  Orange County Water District Data

  - 0/1 exceeded the CTR "max. conc. 1-hr avg" arsenic standard of 150 ug/L (based on hardness = 285 mg/L)
  - 0/1 exceeded the CTR "max. conc. 1-hr avg" cadmium standard of 13 ug/L (based on hardness = 285 mg/L)
  - 0/1 exceeded the CTR "max. conc. 1-hr avg" copper standard of 36 ug/L (based on hardness = 285 mg/L)
  - 0/1 exceeded the CTR "max. conc. 1-hr avg" lead standard of 190 ug/L (based on hardness = 285 mg/L)
  - 0/1 exceeded the CTR "max. conc. 1-hr avg" nickel standard of 1100 ug/L (based on hardness = 285 mg/L)
  - 0/1 exceeded the CTR "max. conc. 1-hr avg" zinc standard of 280 ug/L (based on hardness = 285 mg/L)
  - Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" cadmium standard of 8.5 ug/L (Based on hardness = 194)
  - Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" cadmium standard of 13 ug/L (Based on hardness = 284)
  - Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" cadmium standard of 11 ug/L (Based on hardness = 238)
  - Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" copper standard of 25 ug/L (Based on hardness = 194)
  - Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" copper standard of 36 ug/L (Based on hardness = 284)
  - Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" copper standard of 31 ug/L (Based on hardness = 238)
  - Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" nickel standard of 810 ug/L (Based on hardness = 194)
  - Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" nickel standard of 1100 ug/L (Based on hardness = 284)
  - Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" nickel standard of 980 ug/L (Based on hardness = 238)

- Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" lead standard of 130 ug/L (Based on hardness = 194)
- Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" lead standard of 190 ug/L (Based on hardness = 284)
- Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" lead standard of 170 ug/L (Based on hardness = 238)
- Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" selenium standard of 20 ug/L (Based on hardness = 194)
- Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" selenium standard of 20 ug/L (Based on hardness = 284)
- Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" selenium standard of 20 ug/L (Based on hardness = 238)
- Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" zinc standard of 200 ug/L (Based on hardness = 194)
- Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" zinc standard of 280 ug/L (Based on hardness = 284)
- Reach 1A – 0/1 exceeded the "Cal Toxics Rule Max Conc 1 hr Avg" zinc standard of 250 ug/L (Based on hardness = 238)

- Potential Sources: Unknown at this time

- Recommendation: More monitoring due to not enough data points available per parameter to reach a conclusion for impairment and insufficient data to back up results.

- TMDL Priority: None at this time

- TMDL Start Date: Not applicable at this time

- TMDL End Date: Not applicable at this time

Temescal Creek

StationName	ParamName	Result_Val	Units	SampDate	SampTime
CK-TEMESCAL-01	Arsenic	3.3	ug/L	8/23/99	11:45
CK-TEMESCAL-01	Cadmium	0.1	ug/L	8/23/99	11:45
CK-TEMESCAL-01	Copper	11	ug/L	8/23/99	11:45
CK-TEMESCAL-01	Lead	0.1	ug/L	8/23/99	11:45
CK-TEMESCAL-01	Nickel	1.5	ug/L	8/23/99	11:45
CK-TEMESCAL-01	Selenium	0.5	ug/L	8/23/99	11:45
CK-TEMESCAL-01	Zinc	5	ug/L	8/23/99	11:45
CK-TEMESCAL-02	Arsenic	4.6	ug/L	8/25/97	15:15
CK-TEMESCAL-02	Arsenic	3.1	ug/L	8/17/98	14:45
CK-TEMESCAL-02	Arsenic	0.2	ug/L	8/22/00	14:40
CK-TEMESCAL-02	Cadmium	0.1	ug/L	8/25/97	15:15
CK-TEMESCAL-02	Cadmium	0.1	ug/L	8/17/98	14:45
CK-TEMESCAL-02	Cadmium	0.1	ug/L	8/22/00	14:40
CK-TEMESCAL-02	Copper	13	ug/L	8/25/97	15:15
CK-TEMESCAL-02	Copper	6.4	ug/L	8/17/98	14:45
CK-TEMESCAL-02	Copper	5.7	ug/L	8/22/00	14:40
CK-TEMESCAL-02	Lead	0.1	ug/L	8/25/97	15:15
CK-TEMESCAL-02	Lead	0.1	ug/L	8/17/98	14:45
CK-TEMESCAL-02	Lead	2.7	ug/L	8/22/00	14:40
CK-TEMESCAL-02	Nickel	1.3	ug/L	8/25/97	15:15
CK-TEMESCAL-02	Nickel	1.6	ug/L	8/17/98	14:45
CK-TEMESCAL-02	Nickel	1.9	ug/L	8/22/00	14:40
CK-TEMESCAL-02	Selenium	0.5	ug/L	8/25/97	15:15
CK-TEMESCAL-02	Selenium	0.5	ug/L	8/17/98	14:45
CK-TEMESCAL-02	Selenium	0.5	ug/L	8/22/00	14:40
CK-TEMESCAL-02	Zinc	5	ug/L	8/25/97	15:15
CK-TEMESCAL-02	Zinc	5	ug/L	8/17/98	14:45
CK-TEMESCAL-02	Zinc	5	ug/L	8/22/00	14:40

California Toxics Rule ✓

Receiving Water Body	Parameter Name	Number of times above std.	Standard (all are in µg/L)	Source of Standard
Temescal Creek 02	Arsenic	8/25/97 4.6 8/17/98 3.1	— No std. for dissolved	
Temescal Creek 02	Cadmium	8/25/97 0.1 µg/L 0/1	Hardness = 194 8.5	Max. Conc. 1 hr. Avg. (Continuous Conc. 4-day Avg. N/A)
"	Cadmium	8/17/98 0.1 µg/L 0/1	Hardness = 284 13	Max. Conc. 1 hr. Avg.
"	Cadmium	8/22/00 0.1 µg/L 0/1	Hardness = 238 11	"
Temescal Creek 02.	Copper	8/25/97 13 0/1	Hardness = 194 25	Max. Conc. 1 hr. Avg.
"	Copper	8/17/98 6.4 0/1	Hardness = 284 36	"
"	Copper	8/22/00 5.7 0/1	Hardness = 238 31	"
Temescal Creek 02	Nickel	8/25/97 1.3 0/1	Hardness = 194 810	Max. Conc. 1 hr. Avg.
"	Nickel	8/17/98 1.6 0/1	Hardness = 284 1100	"
"	Nickel	8/22/00 1.9 0/1	Hardness = 238 980	"
Temescal Creek 02	Lead	8/25/97 0.1 0/1	Hardness = 194 130	Max. Conc. 1 hr. Avg.
"	Lead	8/17/98 0.1 0/1	Hardness = 284 190	"
"	Lead	8/22/00 2.7 0/1	Hardness = 238 170	"
Temescal Creek 02	Selenium	8/25/97 0.5 0/1	Hardness = 194 20	Max. Conc. 1 hr. Avg.
	Selenium	8/17/98 0.5 0/1	Hardness = 284 20	"
	Selenium	8/22/00 0.5 0/1	Hardness = 238 20	"
Temescal Creek 02	Zinc	8/25/97 5 0/1	Hardness = 194 200	Max. Conc. 1 hr. Avg.
"	Zinc	8/17/98 5 0/1	Hardness = 284 280	"
"	Zinc	8/22/00 5 0/1	Hardness = 238 250	"

Total Hardness = 285 mg/L

Receiving Water Body	Parameter Name	Number of times above std.	Standard	Source of Standard
Temecula Creek Pl	Arsenic	8/23/99 [illegible] 0/1	150 µg/L	Max. Conc. 1 hr. Avg. (4 day Avg N/A)
Temecula Creek Pl	Cadmium	8/23/99 0.1 0/1	13 µg/L	"
"	Copper	8/23/99 0.1 0/1	36 µg/L	"
"	Lead	8/23/99 0.1 0/1	190 µg/L	"
"	Nickel	8/23/99 1.5 0/1	1100 µg/L	"
"	Selenium	8/23/99 0.5 0/1	— µg/L	"
	Zinc	8/23/99 5 0/1	280 µg/L	"

8-156

1988

Temescal Wash Sampling Reconnaissance

Purpose

Temescal Creek was sampled in order to update information on the creek. Specific goals of the sampling reconnaissance were:

1) [illegible] Beneficial [illegible] by the Basin Plan update on Beneficial [illegible]

2) define [illegible] [illegible] for incorporation into GUAL 2E [illegible] of the CFR

3) [illegible] data

[illegible] - this data [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] to the proposed [illegible] of [illegible] [illegible] E.M.L.D

Staff - Hope Smythe [illegible]
[illegible] [illegible] [illegible]

Parameters

- Field Measurements
- [illegible]
- [illegible]

Sampling Site	Date
1) Elsinore STP	8/19/88
2. T Creek @ [illegible]	"
3) T Creek @ [illegible]	8/11/88
4) Side Stream @ Auburndale	8/11/88
5) T Creek @ Auburndale	8/11/88
6) Home Gardens FC Ch. @ Harrison	8/11/88
7) T Creek @ Minnesota D.	8/16/88

See map in RFN map file

Temescal Cr. Water Quality Objectives

Lower (SAR to Riverside Canal)

TFR - 800
Hard. - 400
Na - 100
Cl - 200
Tot. Inorg. N - 6
SO_4 - 70

Compare w/ 8/11/88 Sample Water
@ Auburndale

TFR - 850 *
Hard - 450 *
Na - 120 *
Cl - 127
TIOM - 11.9 *
SO_4 - 176 *

* Exceed Basin Plan Objectives

STATE OF CALIFORNIA

GEORGE DEUKMEJIAN, *Governor*

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION
6809 INDIANA AVENUE, SUITE 200
RIVERSIDE, CALIFORNIA 92506
PHONE: (714) 782-4130

October 11, 1988

Mr. Chip Paulson
Montgomery Engineers
30 Corporate Park, Suite 310
Irvine, CA 92714

TEMESCAL CREEK WATER QUALITY DATA

Dear Chip:

As you requested, I am enclosing the water quality data obtained this summer from our sampling of Temescal Creek. I have detailed on the analyses sheets the exact location where the samples were collected.

If you need additional information or have any questions, please let me know.

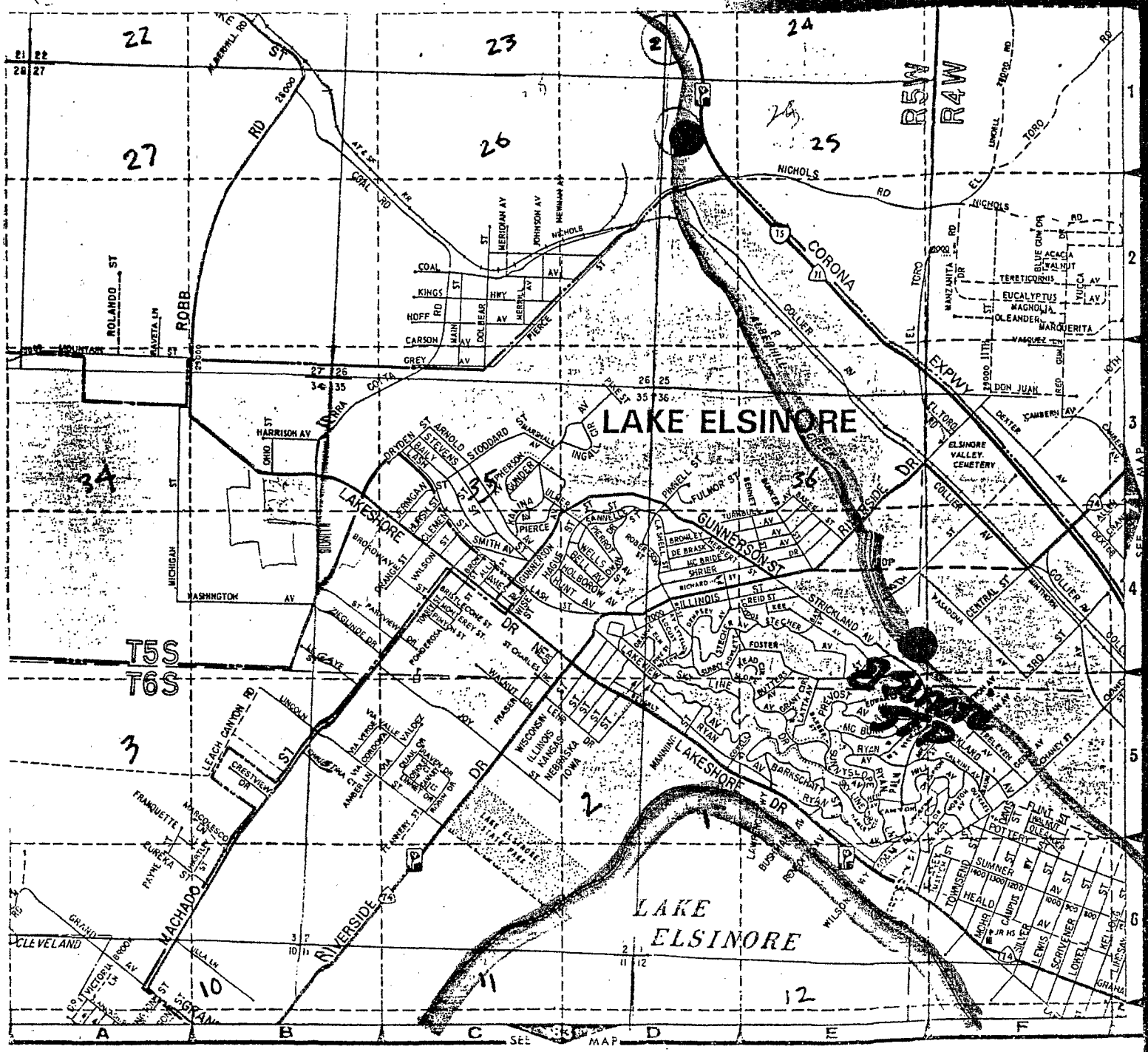
Sincerely,

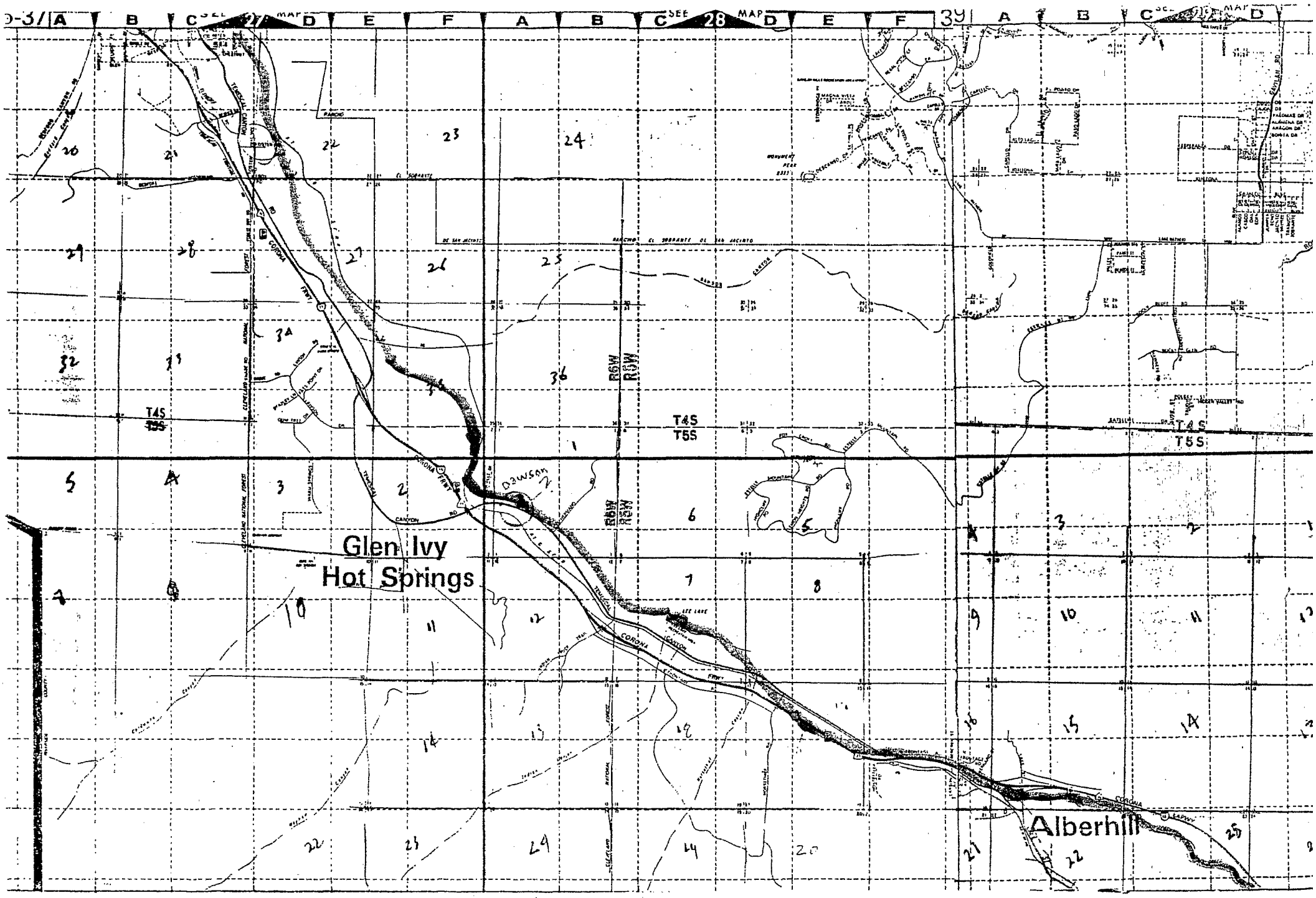
Hope Smythe

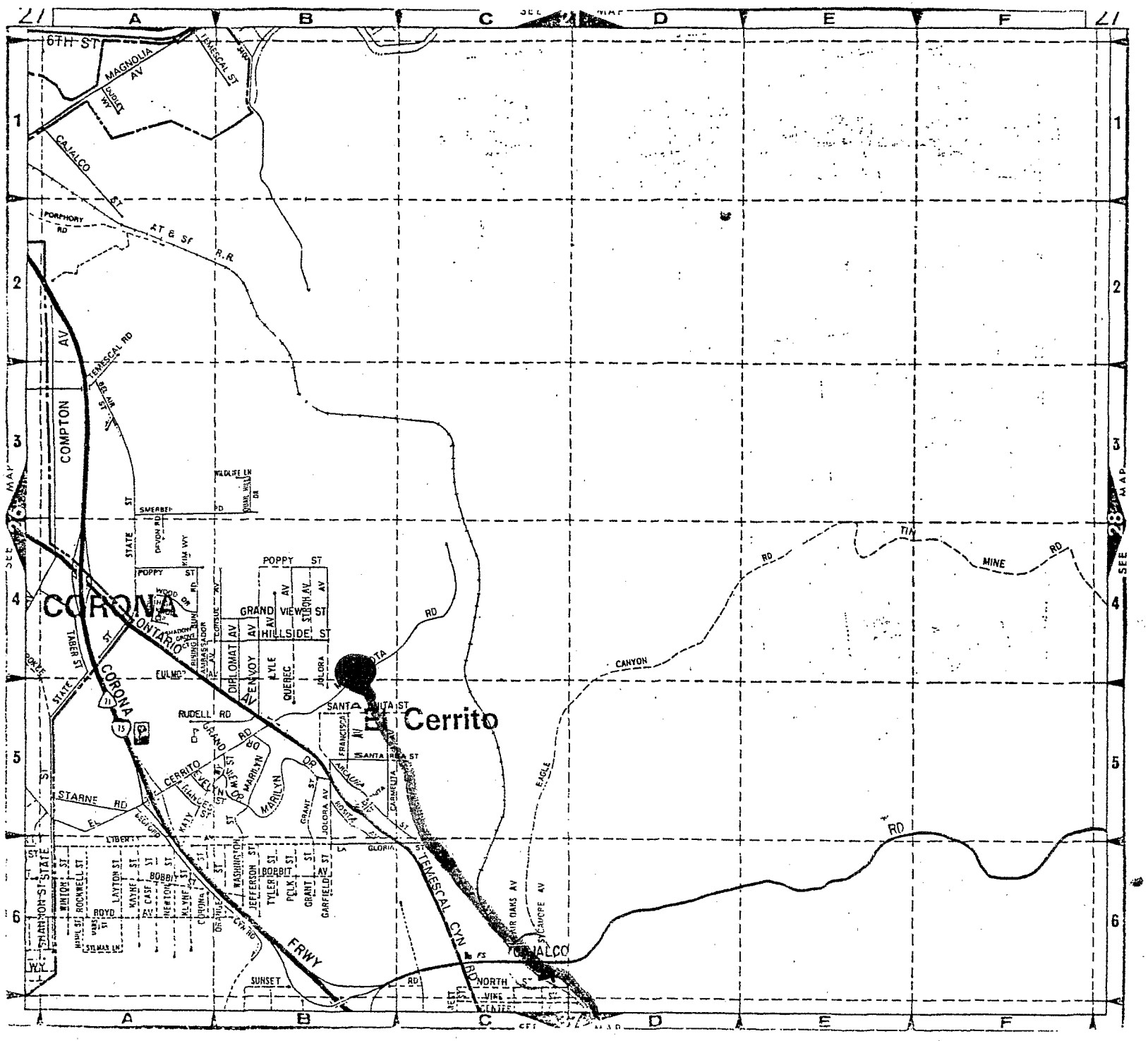
Hope M. Smythe
Environmental Specialist III

enclosure

file:Tem.Cr./Paulson.let

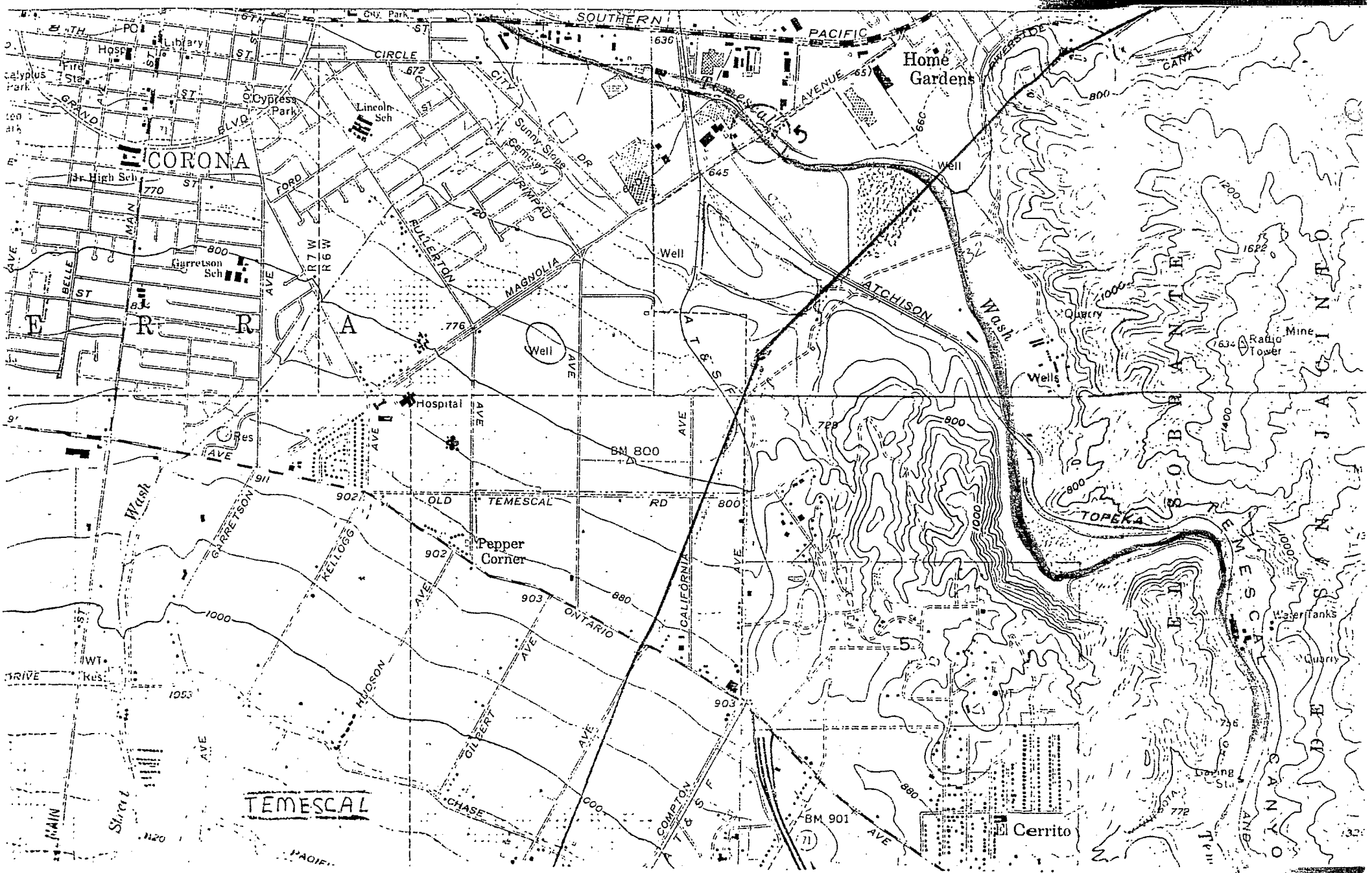

LAKE ELSINORE
LAKE ELSINORE
T5S
T6S
R5W
R4W
CORONA EXPWY
ROBB RD
MACHADO ST
RIVERSIDE DR
LAKESHORE DR
GUNNERSON ST
NICHOLS RD
ELSINORE VALLEY CEMETERY
LAKE ELSINORE STATE PARK
SEE MAP
A
B
C
D
E
F
1
2
3
4
5
6
10
11
12
22
23
24
25
26
27
34
35
36


SEE MAP 27
SEE MAP 28
SEE MAP 39
A
B
C
D
E
F
T4S
T5S
R6W
R5W
Glen Ivy
Hot Springs
Alberhill
CORONA
DAWSON
CANYON

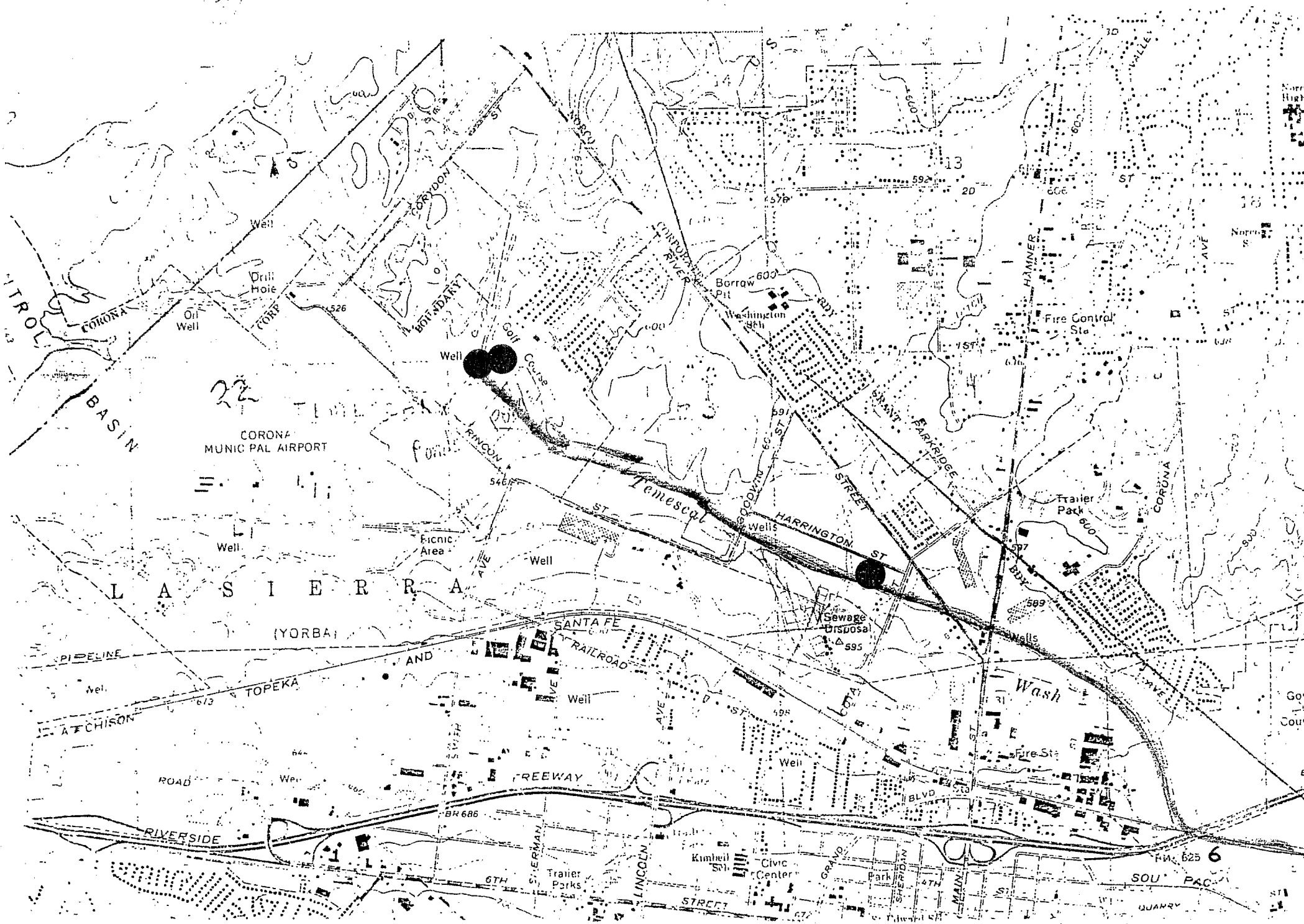


27
A
B
C
D
E
F
1
2
3
4
5
6
6TH ST
MAGNOLIA AV
TEMESCAL ST
CAJALCO ST
PORPHORY RD
AT & SF R.R
COMPTON AV
TEMESCAL RD
BEL AIR ST
SMERBER RD
WILDLIFE LN
STATE ST
POPPY ST
GRAND VIEW ST
HILLSIDE ST
DIPLOMAT AV
ENVOY AV
LYLE
QUEREC
JOLORA
CORONA
ONTARIO
CORONA
TABER ST
FULMOR
RUDELL RD
SANTA ANITA ST
El Cerrito
SANTA ROSA ST
FRANCISCA AV
ARCADIA
CARMELITA
CERRITO
MARILYN
STARNE RD
LIBERTY
GLORIA ST
TEMESCAL CYN RD
CAJALCO
NORTH ST
SUNSET RD
FRWY
CANYON RD
TIN MINE RD
EAGLE
SEE MAP

4



SOUTHERN PACIFIC
Home Gardens
CORONA
Library
Hosp
Fire Sta
Cypress Park
Lincoln Sch
Jr High Sch
Garretson Sch
Sunny Slope Cemetery
Well
Hospital
Res
BM 800
OLD TEMESCAL RD
Pepper Corner
ONTARIO
CALIFORNIA
ATCHISON
TOPEKA
Quarry
Radio Tower
Mine
Wells
Water Tanks
Gaging Sta
El Cerrito
BM 901
TEMESCAL
MAGNOLIA
FULLERTON
CIRCLE
CITY
RIMPAU
AVENUE
CANAL
GARRETSON
KELLOGG
HUDSON
GILBERT
CHASE
COMPTON
MAIN
BELLE
FORD
GRAND
BLVD
R 7 W
R 6 W



CORONA MUNIC PAL AIRPORT
L A S I E R R A
(YORBA)
Temescal
Wash
Golf Course
Borrow Pit
Washington Sch
Fire Control Sta
Trailer Park
Sewage Disposal
Picnic Area
Drill Hole
Oil Well
Well
Wells
Fire Sta
Civic Center
Kimbell Sch
Trailer Parks
Park
CORONA
CORYDON
BOUNDARY
RINCON
HARRINGTON ST
GOODWIN
STREET
PARKRIDGE
HAMNER
CORONA
SANTA FE
RAILROAD
TOPEKA
AND
ATCHISON
PIPELINE
FREEWAY
RIVERSIDE
6TH
STREET
SHERMAN
LINCOLN
GRAND
SHERIDAN
MAIN
SOU PAC
QUARRY
BR 686

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WATER TESTING
HAZARDOUS WASTE TESTING
CALIF. DHS CERTIFIED
PHONE (714) 684-1881
LABORATORIES
215 CHICAGO AVE.

ESTABLISHED 1906
EDWARD S. BABCOCK & SONS, INC.
P.O. BOX 432
RIVERSIDE, CALIFORNIA 92502

09/08/88

To: Regional Water Quality Control Board #8
6809 Indiana Avenue, Suite 200
Riverside, CA 92506

Lab No. 880816-200
Invoice No. 93014

	Submitted	Sampled
Sample Marked: ~~Temescal Creek~~ Flood Control @ Minnesota St. (water)	By KS	KLS/HS
	Date 8/16/88	8/15/88
	Time 8:45	11:45

PARAMETER	RESULT		PARAMETER	RESULT	
Total Hardness as $CaCO_3$	339	mg/L	Specific Conductance	1200	umho/cm
Calcium (Ca)	130	mg/L	pH	8.2	
Magnesium (Mg)	27	mg/L	Total Filterable Residue	520	mg/L
Sodium (Na)	81	mg/L	BOD_5	6	mg/L
Potassium (K)	2	mg/L	COD	35	mg/L
Ammonium Nitrogen	0.2	mg/L	Fluoride (F)	0.5	mg/L
Total Cations	12.34	me/L	Kjeldahl Nitrogen	2.2	mg/L
Total Alkalinity as $CaCO_3$	200	mg/L	Total Nitrogen	10.5	mg/L
			Total Phosphorus	0.07	mg/L
Hydroxide (OH)	none	mg/L	Phosphate Phosphorus	0.04	mg/L
Carbonate (CO_3)	none	mg/L	Organic Nitrogen	2.0	mg/L
Bicarbonate (HCO_3)	244	mg/L	Nitrite Nitrogen	0.3	mg/L
Sulfate (SO_4)	223	mg/L	Boron (B)	0.1	mg/L
Chloride (Cl)	113	mg/L	Iron (Fe)	0.09	mg/L
Nitrate Nitrogen	8.0	mg/L			
Total Anions	12.40	me/L			

pH = 8.09
EC = 1250 @ 27°C
Q = 0.21 cfs

Chain of Custody on File

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P.O. BOX 432
RIVERSIDE, CALIFORNIA 92502

RECEIVED
AUG 31 1988
CRWQCB - REGION 8

08/30/88

To: Regional Water Quality Control Board #8
6809 Indiana Avenue, Suite 200
Riverside, CA 92506

Lab No. 880811-430
Invoice No. 92934

	Submitted	Sampled
By	KS	KS/HS
Date	8/11/88	8/11/88
Time	16:35	11:40

Sample Marked: Temescal Crk #3 Wastewater
~~Temescal~~ @ Harrison

Home [illegible]

PARAMETER	RESULT	
Total Hardness as $CaCO_3$	375	mg/L
Calcium (Ca)	85	mg/L
Magnesium (Mg)	39	mg/L
Sodium (Na)	114	mg/L
Potassium (K)	3	mg/L
Ammonium Nitrogen	1.9	mg/L
Total Cations	12.68	me/L
Total Alkalinity as $CaCO_3$	200	mg/L
Hydroxide (OH)	none	mg/L
Carbonate (CO_3)	none	mg/L
Bicarbonate (HCO_3)	244	mg/L
Sulfate (SO_4)	200	mg/L
Chloride (Cl)	128	mg/L
Nitrate Nitrogen	11.8	mg/L
Total Anions	12.62	me/L

PARAMETER	RESULT	
Specific Conductance	1225	umho/cm
pH	8.7	
Total Filterable Residue	735	mg/L
BOD_5	10	mg/L
COD	30	mg/L
Fluoride (F)	0.6	mg/L
Kjeldahl Nitrogen	2.7	mg/L
Total Nitrogen	14.6	mg/L
Total Phosphorus	0.17	mg/L
Phosphate Phosphorus	0.05	mg/L
Organic Nitrogen	0.8	mg/L
Nitrite Nitrogen	0.1	mg/L
Boron (B)	0.3	mg/L
Iron (Fe)	1.5	mg/L

pH = 8.38 @ 25.1°C

EC = 1220 @ 24°C

Q = 6.17 cfs

EDWARD S. BABCOCK & SONS, INC.

James K. Babcock

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RIVERSIDE, CALIFORNIA 92502

RECEIVED
AUG 31 1988
CRWQCB - REGION 8

08/30/88

To: Regional Water Quality Control Board #8
6809 Indiana Avenue, Suite 200
Riverside, CA 92506

Lab No. 880811-428
Invoice No. 92934

	Submitted	Sampled
Sample Marked: Temescal Crk #1 Wastewater Temescal & Aubarndale	By KS	KS/HS
	Date 8/11/88	8/11/88
	Time 16:35	9:40

PARAMETER	RESULT		PARAMETER	RESULT	
Total Hardness as $CaCO_3$	450	mg/L	Specific Conductance	1400	umho/cm
Calcium (Ca)	110	mg/L	pH	8.2	
Magnesium (Mg)	42	mg/L	Total Filterable Residue	830	mg/L
Sodium (Na)	120	mg/L	BOD_5	17	mg/L
Potassium (K)	5	mg/L	COD	30	mg/L
Ammonium Nitrogen	0.1	mg/L	Fluoride (F)	0.5	mg/L
Total Cations	14.35	me/L	Kjeldahl Nitrogen	2.9	mg/L
Total Alkalinity as $CaCO_3$	303	mg/L	Total Nitrogen	14.7	mg/L
Hydroxide (OH)	none	mg/L	Total Phosphorus	0.10	mg/L
Carbonate (CO_3)	none	mg/L	Phosphate Phosphorus	0.03	mg/L
Bicarbonate (HCO_3)	369	mg/L	Organic Nitrogen	2.8	mg/L
Sulfate (SO_4)	176	mg/L	Nitrite Nitrogen	0.1	mg/L
Chloride (Cl)	127	mg/L	Boron (B)	0.4	mg/L
Nitrate Nitrogen	11.7	mg/L	Iron (Fe)	0.34	mg/L
Total Anions	14.14	me/L			

pH = 8.09
Temp = 19.6
EC = 1020 (T = 20°C)
Q = 4.71 cfs

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Jim K Babcock

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RIVERSIDE, CALIFORNIA 92502

RECEIVED
AUG 31 1988
CRWQCB

08/30/88

To: Regional Water Quality Control Board #8
6809 Indiana Avenue, Suite 200
Riverside, CA 92506

Lab No. 880811-429
Invoice No. 92934

	Submitted	Sampled
Sample Marked: Temescal Ck #2 Wastewater Side Stream @ Aubarndale	By KS	KS/HS
	Date 8/11/88	8/11/88
	Time 16:35	10:30

PARAMETER	RESULT		PARAMETER	RESULT	
Total Hardness as $CaCO_3$	425	mg/L	Specific Conductance	1290	umho/cm
Calcium (Ca)	120	mg/L	pH	8.4	
Magnesium (Mg)	30	mg/L	Total Filterable Residue	790	mg/L
Sodium (Na)	110	mg/L	BOD_5	10	mg/L
Potassium (K)	7	mg/L	COD	30	mg/L
Ammonium Nitrogen	0.8	mg/L	Fluoride (F)	0.5	mg/L
Total Cations	13.52	me/L	Kjeldahl Nitrogen	1.8	mg/L
Total Alkalinity as $CaCO_3$	217	mg/L	Total Nitrogen	6.0	mg/L
Hydroxide (OH)	none	mg/L	Total Phosphorus	0.38	mg/L
Carbonate (CO_3)	none	mg/L	Phosphate Phosphorus	0.18	mg/L
Bicarbonate (HCO_3)	265	mg/L	Organic Nitrogen	1.0	mg/L
Sulfate (SO_4)	240	mg/L	Nitrite Nitrogen	<0.1	mg/L
Chloride (Cl)	120	mg/L	Boron (B)	0.2	mg/L
Nitrate Nitrogen	4.2	mg/L	Iron (Fe)	0.70	mg/L
Total Anions	13.03	me/L			

pH = 8.08
T = 22.5
NO EC
NO Q

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James K Babcock

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EDWARD S. BABCOCK & SONS, INC.

P.O. BOX 432
RIVERSIDE, CALIFORNIA 92502

RECEIVED
AUG 31 1988
CRWQCB

08/30/88

To: Regional Water Quality Control Board #8
6809 Indiana Avenue, Suite 200
Riverside, CA 92506

Lab No. 880811-431
Invoice No. 92934

	Submitted	Sampled
Sample Marked: Temescal Creek Wastewater #4 True Temescal @ Harrison	By KS	KS/HS
	Date 8/11/88	8/11/88
	Time 16:35	14:00

PARAMETER	RESULT		PARAMETER	RESULT	
Total Hardness as $CaCO_3$	255	mg/L	Specific Conductance	920	umho/cm
Calcium (Ca)	87	mg/L	pH	10.0	
Magnesium (Mg)	9	mg/L	Total Filterable Residue	615	mg/L
Sodium (Na)	92	mg/L	BOD_5	6	mg/L
Potassium (K)	6	mg/L	COD	15	mg/L
Ammonium Nitrogen	0.8	mg/L	Fluoride (F)	0.7	mg/L
Total Cations	9.31	me/L	Kjeldahl Nitrogen	1.9	mg/L
Total Alkalinity as $CaCO_3$	68	mg/L	Total Nitrogen	1.9	mg/L
Hydroxide (OH)	none	mg/L	Total Phosphorus	0.23	mg/L
Carbonate (CO_3)	27	mg/L	Phosphate Phosphorus	0.08	mg/L
Bicarbonate (HCO_3)	27	mg/L	Organic Nitrogen	1.1	mg/L
Sulfate (SO_4)	257	mg/L	Nitrite Nitrogen	<0.1	mg/L
Chloride (Cl)	88	mg/L	Boron (B)	0.1	mg/L
Nitrate Nitrogen	<0.1	mg/L	Iron (Fe)	0.34	mg/L
Total Anions	9.18	me/L			

pH = 9.9 @ 30.2°C

EC -

Q ~ 0.1 to 0.2 cfs

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James K Babcock

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EDWARD S. BABCOCK & SONS, INC.

P.O. BOX 432
RIVERSIDE, CALIFORNIA 92502

09/13/88

To: Regional Water Quality Control Board #8
6809 Indiana Avenue, Suite 200
Riverside, CA 92506

Lab No. 880819-85
Invoice No. 93136

	Submitted	Sampled
By	Kay	KLS/HS
Date	8/19/88	8/19/88
Time	15:30	1:40

Sample Marked: #2 Temescal @ Beehives
Water

PARAMETER	RESULT	
Total Hardness as $CaCO_3$	301	mg/L
Calcium (Ca)	77	mg/L
Magnesium (Mg)	26	mg/L
Sodium (Na)	196	mg/L
Potassium (K)	13	mg/L
Ammonium Nitrogen	0.4	mg/L
Total Cations	14.90	me/L
Total Alkalinity as $CaCO_3$	180	mg/L
Hydroxide (OH)	none	mg/L
Carbonate (CO_3)	none	mg/L
Bicarbonate (HCO_3)	220	mg/L
Sulfate (SO_4)	209	mg/L
Chloride (Cl)	190	mg/L
Nitrate Nitrogen	<0.1	mg/L
Total Anions	13.30	me/L

PARAMETER	RESULT	
Specific Conductance	1450	umho/cm
pH	8.0	
Total Filterable Residue	640	mg/L
BOD_5	4	mg/L
COD	65	mg/L
Fluoride (F)	0.6	mg/L
Kjeldahl Nitrogen	3.1	mg/L
Total Nitrogen	3.2	mg/L
Total Phosphorus	3.5	mg/L
Phosphate Phosphorus	3.3	mg/L
Organic Nitrogen	2.7	mg/L
Nitrite Nitrogen	0.1	mg/L
Boron (B)	0.3	mg/L
Iron (Fe)	0.62	mg/L

EDWARD S. BABCOCK & SONS, INC.

Allison Mackey

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ESTABLISHED 1906
EDWARD S. BABCOCK & SONS, INC.
P.O. BOX 432
RIVERSIDE, CALIFORNIA 92502

09/13/88

To: Regional Water Quality Control Board #8
6809 Indiana Avenue, Suite 200
Riverside, CA 92506

Lab No. 880819-84
Invoice No. 93136

	Submitted	Sampled
By	Kay	KLS/HS
Date	8/19/88	8/19/88
Time	15:30	1:00

Sample Marked: #1 Temescal @ STP
Water

PARAMETER	RESULT	
Total Hardness as $CaCO_3$	231	mg/L
Calcium (Ca)	64	mg/L
Magnesium (Mg)	17	mg/L
Sodium (Na)	160	mg/L
Potassium (K)	12	mg/L
Ammonium Nitrogen	17	mg/L
Total Cations	13.10	me/L
Total Alkalinity as $CaCO_3$	213	mg/L
Hydroxide (OH)	none	mg/L
Carbonate (CO_3)	none	mg/L
Bicarbonate (HCO_3)	259	mg/L
Sulfate (SO_4)	161	mg/L
Chloride (Cl)	153	mg/L
Nitrate Nitrogen	0.5	mg/L
Total Anions	11.95	me/L

PARAMETER	RESULT	
Specific Conductance	1300	umho/cm
pH	7.7	
Total Filterable Residue	600	mg/L
BOD_5	15	mg/L
COD	50	mg/L
Fluoride (F)	0.6	mg/L
Kjeldahl Nitrogen	17	mg/L
Total Nitrogen	17.6	mg/L
Total Phosphorus	5.9	mg/L
Phosphate Phosphorus	5.5	mg/L
Organic Nitrogen	<1	mg/L
Nitrite Nitrogen	0.1	mg/L
Boron (B)	0.3	mg/L
Iron (Fe)	0.11	mg/L

pH 7.30 @ 23.7°C

Chain of Custody on File

EDWARD S. BABCOCK & SONS, INC.

Allison Mackey

For the file

Temescal Creek - Beneficial Uses
Sept. 8, 1988

Beneficial uses for Temescal Creek are being revised for incorporation into the updated Basin Plan. The review of Temescal Creek beneficial uses involved the division of Temescal Creek into 5 Reaches, with each Reach being assigned appropriate beneficial uses.

During the summer of 1988, staff of the Regional Board (H. Smythe and K. Stritzke) spent several days of reconnaissance of the characteristics of Temescal Creek. These trips consisted of mapping the creek channel, noting inputs, photo-documentation of conditions along the creek and stream gaging and collecting water samples where the creek was flowing. The focus of these activities was to gain a clearer picture of Temescal Creek in order to incorporate Temescal Creek into the QUAL 2E model for the Santa Ana River.

Proposed Reach designations and beneficial uses are listed in the attached table.

Reach 1 extends from the Santa Ana River to Riverside Canal. Riverside Canal demarcates the Riverside groundwater sub-basin and thus is good point for establishing the Reach boundary. Approximately 50% of the Creek stretch, from the Santa Ana River to Cota St. is concrete lined and flows through urban areas. Furthermore, approximately 75% of this Reach has year around continuous flow due to drainage from a Home Gardens flood control channel.

The 50% of this Reach that is an unlined natural channel, is open with easy access conducive to REC-1 and REC-2 uses. Housing tracts are nearby (a few hundred yards in some places) to the creek. Staff observed mosquito fish and aquatic insects at the Auburndale St. crossing. The aquatic inhabitants are further documented by CSUF in their 1986 UIA study. The combination of the water, riparian vegetation and aquatic insects help to create the WILD beneficial use. Other uses noted in this area include IND (there are gravel operations in this area)* and GWR (groundwater recharge to the Temescal groundwater sub-basin). *(page 2)

Reach 2 extends from Riverside Canal to the Lee Lake outlet. The Lee Lake boundary was selected since the dam acts as a barrier to any downstream flow.

In this Reach, Temescal Creek is all natural channel, part of which contains dense riparian vegetation (Riverside Canal to Cajalco Rd.). The remaining channel is rocky, dry stream bed.

Gravel washing by the numerous gravel companies downstream of Minnesota Ave. justifies the IND beneficial use. Temescal Creek is also readily accessible to the nearby ranches and homes. Equestrian trails traverse the creek in this Reach. REC-1 and

REC-2 uses are inevitable. This dense riparian vegetation provide a warm freshwater habitat (WARM and WILD beneficial use). There is also groundwater recharge to the Bedford groundwater basin (GWR).

Reach 3 extends from Lee Lake to the freeway cut. This Reach was chosen because characteristics upstream from the freeway cut are distinctly different from those downstream.

Lee Lake, a privately owned recreation area, is regularly stocked with catfish and bass. Other wildlife observed in this area include raccoons, deer, coyote, rabbits, squirrels and rattlesnakes (J. Mumoz, Lee Lake). This Reach has the following beneficial uses: WARM, WILD, REC-1, REC-2. Groundwater recharge to the Lee Lake groundwater basin supports the GWR beneficial use. AGR is also a use of Temescal Creek in this Reach.

Reach 4 extends from the Freeway cut to Lake Elsinore Basin. Elsinore Basin boundary was chosen to correspond with the Elsinore groundwater sub-basin boundary.

Water in Temescal Creek is backed up behind the freeway cut. As a result there are several areas where the water ponds in algae covered pools. Very large fish (carp) and tadpoles were observed at the Collier St. crossing. This entire Reach has thick, marshy riparian vegetation which would support the WARM and WILD beneficial uses.

The creek in this Reach is accessible to provide both REC-1 and REC-2 uses. According to J. Mumoz of Lee Lake, people camp out in the areas near and upstream of the freeway cut. Other uses noted in this Reach are AGR and GWR. Elsinore MWD diverts water from the creek and transports this water in a separate channel, parallel the Creek, for the GWR and AGR use.

Reach 5 extends from Lake Elsinore Basin to Lake Elsinore outlet. The creek in this Reach is open, accessible and heavily vegetated. Beneficial uses include WARM, WILD, REC-1, REC-2 and GWR (to the Elsinore groundwater sub-basin).

	MUN	AGR	IND	PROC	GWR	REC	REC-1	COMM	WARM	COLD	BIOL	WILD	RARE	SPWN	MAR	SHEL
Temescal Creek																
Reach 1 - Santa Ana River to Riverside Canal		X	X		X		X	X		X			X			
Reach 2. Riverside Canal to Lee Lake		X	X		X		X	X		X			X			
Reach 3. Lee Lake to Freway Cut		X			X		X	X		X			X			
Reach 4 - Freway Cut to Elsinore Basin		X			X		X	X		X			X			
Reach 5. Elsinore Basin to Lake Elsinore outlet					X		X	X		X			X			

.0 .10 .20 .30 .40 .50 Pygmy meter .70 .75

River at—

Angle coefficient	Dist. from initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in vertical	Adjusted for hor. angle or Area	Area	Discharge
	0.0	left bank									
	5.5	.5	0.15		15	43	.348		.075	.0241	.0261
	5.0	.5	0.1		20	41	.732		.05	.366	.0366
	4.3	.7	0.2		30	40	.75		.14	.525	.105
	2.8	1.5	0.05		50	37	.541		.075	.812	.0406
	3.0	Right	bank								
											0.208
									EQ		

.80 .85 .90 .92 .94 .96 .97 .98 .99 1.00 .99 .98 .97 .96 .94 .92 .90 .85 .80

9-275-F
(Rev. 10-81)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Meas. No. . . . . .

Comp. by. . . . . .

WATER RESOURCES DIVISION

Flood Control at Minnesota St.

Sta. No. . . . . DISCHARGE MEASUREMENT NOTES Checked by . . . . .

. . . ~~Temporary~~ ~~at Minnesota Gage~~ . . . . . .

Date . . 8/15/88., 19 . 11:45. Party . . . . . .

Width . . . . . Area. . . . . Vel. . . . . G. H. . . . . Disch. . . . . .

Method . . . . . No. secs. . . . . G. H. change. . . . . in . . . . . hrs. Susp. . . . . .

Method coef. . . . . Hor. angle coef. . . . . Susp. coef. . . . . Meter No. . . . . .

Type of meter . . . . . Date rated . . . . . Tag checked . . . . . .

Meter . . . . . ft. above bottom of wt. Spin before meas. . . . . after . . . . . .

Meas. plots. . . . . % diff. from. . . . . rating. Levels obtained. . . . . .

GAGE READINGS						
Time		Inside	ADR	Graphic	Outside	
Weighted M.G.H.						
G. H. correction						
Correct M.G.H.						

WATER QUALITY MEASUREMENTS

No . . . . . Yes. . . . . Time . . . . . .

Samples Collected

No . . . . . Yes. . . . . Time . . . . . .

Method Used

EDI . . . . . EWI . . . . . Other. . . . . .

SEDIMENT SAMPLES

No . . . . . Yes. . . . . Time . . . . . .

Method Used

EDI . . . . . EWI . . . . . Other. . . . . .

BIOLOGICAL SAMPLES

Yes. . . . . Time . . . . . .

No . . . . . Type . . . . . .

Check bar. chain found . . . . . changed to . . . . . at . . . . . .

Wading, cable, ice, boat, upstr., downstr., side bridge. . . . . feet, mile, above, below gage.

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%); based on the following cond:

Flow. . . . . .

Cross section . . . . . .

Control . . . . . .

Gage operating . . . . . Weather . . . . . .

Intake/Orifice cleaned . . . . . Air . . . . . °C@ . . . . . Water . . . . . °C@ . . . . . .

Record removed . . . . . Extreme Indicator: Max. . . . . Min. . . . . .

Manometer N_2 Pressure Tank . . . . . Feed . . . . . Bbl rate . . . . . per min.

CSG checked . . . . . Stick reading . . . . . .

Observer . . . . . .

HWM . . . . . outside, in well

Remarks . . . . . .

. . . . . .

. . . . . .

G.H. of zero flow . . . . . ft. Sheet No. . . . . of . . . . . sheets

.0 .10 .20 .30 .40 .50 .60 .70 .75

River at—

Angle and Time	Dist. from initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in vertical	Adjusted for hor. angle or	Area	Discharge
20	0										
	18	2	.3		0		0			.6	0
	16	2	.2		5	70	.176			.4	.07
	15	1	.5		10	41	.552			.5	.28
	14	1	.5		10	41	.552			.5	.28
	13	1	.5		15	47	.716			.5	.36
	12	1	.6		10	46	.494			.6	.30
	11	1	.6		20	48	.928			.6	.56
	10	1	.5		20	46	.968			.5	.48
	9	1	.5		20	42	1.06			.5	.53
	8	1	.6		20	40	1.11			.6	.67
	7	1	.6		20	47	.948			.6	.57
	6	1	.6		15	48	.701			.6	.42
	5	1	.5		7	43	.375			.5	.19
0	4	1	.5		0		0			.5	0
	1 left Bank									EQ	4.71 cfs

.80 .85 .90 .92 .94 .96 .97 .98 .99 1.00

9-275-F
(Rev. 10-81)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

Meas. No. . . . . .

Comp. by. . . . . .

Sta. No. . . . . DISCHARGE MEASUREMENT NOTES Checked by . . . .

Temescal Ck at Auburndale St.

Date 8/11/88 . . ., 19 . . . . . Party . KLS / HS

Width . . . . . Area. . . . . Vel. . . . . G. H. . . . . Disch. . . . . .

Method . . . . . No. secs. . . . . G. H. change. . . . . in . . . . . hrs. Susp. . . . . .

Method coef. . . . . Hor. angle coef. . . . . Susp. coef. . . . . Meter No. . . . . .

Type of meter . . . . . Date rated . . . . . Tag checked . . . . . .

Meter . . . . . ft. above bottom of wt. Spin before meas. . . . . after . . . . . .

Meas. plots. . . . . % diff. from. . . . . rating. Levels obtained. . . . . .

GAGE READINGS					
Time		Inside	ADR	Graphic	Outside
Weighted M.G.H.					
G. H. correction					
Correct M.G.H.					

WATER QUALITY MEASUREMENTS

No . . . . . Yes. . . . . Time . . . . . .

Samples Collected

No . . . . . Yes. . . . . Time . . . . . .

Method Used

EDI . . . . . EWI . . . . . Other. . . . . .

SEDIMENT SAMPLES

No . . . . . Yes. . . . . Time . . . . . .

Method Used

EDI . . . . . EWI . . . . . Other. . . . . .

BIOLOGICAL SAMPLES

Yes. . . . . Time . . . . . .

No . . . . . Type . . . . . .

Check bar. chain found . . . . . changed to . . . . . at . . . . . .

Wading, cable, ice, boat, upstr., downstr., side bridge. . . . . feet, mile, above, below gage.

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%); based on the following cond:

Flow. . . . . .

Cross section . . . . . .

Control . . . . . .

Gage operating . . . . . Weather . . . . . .

Intake/Orifice cleaned . . . . . Air . . . . . °C@ . . . . . Water . . . . . °C@ . . . . . .

Record removed . . . . . Extreme Indicator: Max. . . . . Min. . . . . .

Manometer N_2 Pressure Tank . . . . . Feed . . . . . Bbl rate . . . . . per min.

CSG checked . . . . . Stick reading . . . . . .

Observer . . . . . .

IWM . . . . . outside, in well

Remarks . . . . . .

G.H. of zero flow . . . . . ft. Sheet No. . . . . of . . . . . sheets

.0 .10 .20 .30 .40 .50 .60 .70 .75

River at—

Angle coefficient	Dist. from initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in vertical	Adjusted for hor. angle or	Area	Discharge
B	0										
	12	.1	.1				0			.1	0
	11	1	.3		20	40	1.1			.3	.33
	10	1	.4		40	44	2.0			.4	.8
	9	1	.6		50	41	2.68			.6	1.61
	8	1	.6		60	44	2.99			.6	1.79
	7	1	.5		50	49	2.34			.5	1.17
	6	1	.3		20	40	1.11			.3	.33
	5	1	.2		20	48	.958			.2	.19
left Bank	3									ΣQ	6.17 cfs

.80 .85 .90 .92 .94 .96 .97 .98 .99 1.00 .99 .98 .97 .96 .94 .92 .90 .85 .80

9-275-F
(Rev. 10-81)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

Meas. No. . . . . .

Comp. by. . . . . .

Sta. No. . . . . DISCHARGE MEASUREMENT NOTES Checked by . . . .

Harrison St. (Temescal)

Date 8/11/88 . ., 19 . . . . . Party KLS/HS

Width . . . . . Area. . . . . Vel. . . . . G. H. . . . . Disch. . . . . .

Method . . . . . No. secs. . . . . G. H. change. . . . . in . . . . . hrs. Susp. . . . . .

Method coef. . . . . Hor. angle coef. . . . . Susp. coef. . . . . Meter No. . . . . .

Type of meter . . . . . Date rated . . . . . Tag checked . . . . . .

Meter . . . . . ft. above bottom of wt. Spin before meas. . . . . after . . . . . .

Meas. plots. . . . . % diff. from. . . . . rating. Levels obtained. . . . . .

GAGE READINGS					
Time		Inside	ADR	Graphic	Outside
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Weighted M.G.H.		. . . .	. . . .	. . . .	. . . .
G. H. correction		. . . .	. . . .	. . . .	. . . .
Correct M.G.H.		. . . .	. . . .	. . . .	. . . .

WATER QUALITY MEASUREMENTS

No . . . . . Yes. . . . . Time . . . . . .

Samples Collected

No . . . . . Yes. . . . . Time . . . . . .

Method Used

EDI . . . . . EWI . . . . . Other. . . . . .

SEDIMENT SAMPLES

No . . . . . Yes. . . . . Time . . . . . .

Method Used

EDI . . . . . EWI . . . . . Other. . . . . .

BIOLOGICAL SAMPLES

Yes. . . . . Time . . . . . .

No . . . . . Type . . . . . .

Check bar. chain found . . . . . changed to . . . . . at . . . . . .

Wading, cable, ice, boat, upstr., downstr., side bridge. . . . . feet, mile, above, below gage.

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%); based on the following cond:

Flow. . . . . .

Cross section . . . . . .

Control . . . . . .

Gage operating . . . . . Weather . . . . . .

Intake/Orifice cleaned . . . . . Air . . . . . °C@ . . . . . Water . . . . . °C@ . . . . . .

Record removed . . . . . Extreme Indicator: Max. . . . . Min. . . . . .

Manometer N_2 Pressure Tank . . . . . Feed . . . . . Bbl rate . . . . . per min.

CSG checked . . . . . Stick reading . . . . . .

Observer . . . . . .

HWM . . . . . outside, in well

Remarks . . . . . .

. . . . . .

. . . . . .

G.H. of zero flow . . . . . ft. Sheet No. . . . . of . . . . . sheets

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION
6809 INDIANA AVENUE, SUITE 200
RIVERSIDE, CALIFORNIA 92506
PHONE (714) 782-4130

CHAIN OF CUSTODY RECORD

Date Aug 19 Page 1 of 1

LABORATORY: Babcock

SECTION:

PROJECT NAME: Temescal Creek

PROJECT MANAGER: Kay Stutzke / Hope Smythe

PHONE NUMBER: 782-4130

SAMPLERS: (Signature) Hope Smythe

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER Comp.	SAMPLE TYPE WATER Grab	SAMPLE TYPE AIR	SOLID	NO. OF CNTNRS	TESTS REQUIRED
1	Temescal @ STP	8/19/88	1:00		X			2	General minerals (10), BOD (16), COD (7.50), Nutrients (43)
2	Temescal @ Beaches	8/19/88	1:40		X			2	" " " "

171.50 × 2 = 343.00

Relinquished by: (Signature) Kay Stutzke
Received by: (Signature) Ken Smith
Date/Time 8/19 1530

Relinquished by: (Signature)
Received by: (Signature)
Date/Time

Relinquished by: (Signature)
Received by Mobile Laboratory for field analysis: (Signature)
Date/Time

Dispatched by: (Signature)
Date/Time
Received for Laboratory by:
Date/Time

Method of Shipment:

Special Instructions:

TASK CODE 13101

ESTIMATED COST $2112.00

EDWARD S. BABCOCK & SONS, INC.

Proj. No.	Project Name: Temescal Creek					No. of containers						Remarks
Samplers: (Signature) Kay Stritzke												
Sta. No.	Date	Time	Comp.	Grab	Station Location							
1	8/15	11:45		✓	Flood Control at Minnesota St.	1						Nutrients, COD (preserved)
1	8/15	11:45		✓	Flood Control at Minnesota St.	1						General Minerals, BOD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Kay Stritzke	8/16 8:45am	[illegible]			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks	

Chain of Custody Record

est. cost. $171.50

13101

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION
809 INDIANA AVENUE, SUITE 200
RIVERSIDE, CALIFORNIA 92506
PHONE (714) 782-4130

CHAIN OF CUSTODY RECORD

Date Aug 11, 1988 Page 1 / 1

LABORATORY: Babcock

SECTION: Planning

PROJECT NAME: Temescal Creek

PROJECT MANAGER: Kay Stietke

PHONE NUMBER: 782-4130

SAMPLERS: (Signature) Hope Smythe

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER Comp.	SAMPLE TYPE WATER Grab.	SAMPLE TYPE AIR	SOLID	NO. OF CNTNRS	TESTS REQUIRED
1	Temescal @ Auburndale	8/11/88	9:40		X			2	BOD, COD, Nutrients Gen. minerals
2	Side channel @ "	"	10:40		X			2	"
3	Temescal @ Harrison	"	11:40		X			2	"
4	"True" Temescal @ Harrison	"	2:00		X			2	"
									$16 + $17.50 + $43 + 105

Relinquished by: (Signature) Kathleen Stietke — Date/Time

Relinquished by: (Signature) — Received by: (Signature) — Date/Time

Relinquished by: (Signature) — Received by Mobile Laboratory for field analysis: (Signature) — Date/Time

Dispatched by: (Signature) — Date/Time — Received for Laboratory by: Cathleen S. Dyer — Date/Time 8/11/88 1635

Method of Shipment:

Special Instructions:

TASK CODE 13101

ESTIMATED COST ~~$181.50~~

$77.

Temescal Ck
at Main St.

from Marlene

9/2/88

USGS

8/3 1300 6.5cfs
8/19 12:30 5.72cfs

More exact values available in Sept

UCR

7/26 1600 4.6cfs
7/26 15:30 6.5cfs
7/27 8:30 6.0cfs.
8/31 14.00 7.8cfs

Disagreement w/UCR & Babcock
example: Cl⁻ 166 66 mg/l

State
UCR

Diele → November

Marlene

Main St.
Provisional data - Not good for Temescal

5 - 7cfs June July August
USGS streamgaging

100' USGS gage 100'

cfs

*Lincoln St.

6/20

Tentative

Temescal Creek

Reach	Stream Length (miles) approximate	Description
1	2.7, 0-2.7	Santa Ana Confluence to ~~Goodburn St.~~ Cota ~~Lincoln~~
2	1.8, 2.7-4.5	Cota ~~Lincoln~~ ~~Goodburn~~ St* to Fwy. Xing
3	2.1, 4.5-6.6	Fwy Xing to Riverside Canal
4.	2.5, 6.6-9.1	Riverside Canal to Gage near El Cerrito
5	1.6, 9.1-10.7	Gage near El Cerrito to Cajalco Creek
6	2.3, 10.7-13.0	Cajalco Cr. to Olsen Canyon
7	1.3, 13.0-14.3	Olsen Canyon to Cold Water Canyon
8	2.6, 14.3-16.9	Cold Water Canyon to Lee Lake Basin
~~9~~	~~2.6~~, ~~16.9-19.5~~	Lee Lake Basin to Lee Lake; Lee Lake ~~Basin~~ to South Line Sec. 8
10	2.5, 19.5-22.0	South Line Sec. 8 to Fwy cut
11	2.7, 22.0-24.7	Fwy cut to Nichols Rd. (Alberhill Cr.)
12	2.8, 24.7-27.6	Nichols Rd to Elsinore Basin (Alberhill Cr.)
13.	1.3, 27.6-28.9	Elsinore Basin to Elsinore Lake

28.9 miles

Roman Num. for Beneficial Uses & Water Quality Obj.

Boundaries around Lee Lake

Funeral

Each

1 Confluence to Cota

2 Cota to Fwy Xing

Temescal Ck
reconnaisance
HS/KLS 7/88

- Flows into Elsinore West of Spring St. ("Temescal Wash")
- At Limited St. crossing - cattails
- Flow starts between Heald St and Graham St near pump
- Chaney St. Crossing - West side water
  East side dry
  ↓
  Near STP

  ½ block West of Chaney on dirt road STP discharge pipe (probably) -- near big pipes and dirt mound. Water is entering through pipes.

- 74 crossing West side overgrown pool
  East side clear pool with huge pollywogs, carp and mosquito fish

- On Collier dirt road before begin of pavement completely dry
- Nichols Rd crossing dry

- Lake St. Crossing - Mineral Deposits Gate Closed
- On Temescal Canyon Rd - crossing there is water

- Huntington Pacific Ceramics (Bricks) - Bridge
  Small flow Westward

- Hostetler Rd crossing - some standing water (outlaw leather sign; before fwy underpass)

- After Temescal Canyon Rd underpass.
  Temescal Ck goes under road in 3 pipes - dry
  Much less vegetation around creekbed.

- Corona Lake - almost dry lake was dammed

- .85mi Past Indian Truck Trail - dirt road - dry
- pavement rd (Mayhew Rd) before freeway underpass, adjacent to railroad bridge - dry

- Dawson Canyon Rd - Temesc. Ck crosses directly after leaving Temescal Cny Rd. Ck is dry
- Cajaco Rd crossing - dry

Temescal CK HS/KLS

8/11/88

~~Polar~~ Slides	Actual Slide #
1-3 Auburndale	3-5
4-5 Auburndale Side Channel from Housing Area	6-7
6 Upstream from Auburndale	8
7 Upstream from Lincoln - Channelized	9
8 Downst. from Lincoln - Marshy	
9 u/s from Cota St - concrete	11
10 D/s from Cota St - channelized; not concrete	12
11 u/s from Main St - concrete	13
2 u/s from Harrison - S.T.P.	
3 u/s from Harrison - channel forks under fwy	15
4 d/s from 6th St. < 2ft wide; channel	17
~~15 u/s from Harrington - ch. fork~~	~~18~~
16 in Magnolia - dry	19

8/15/88

17. u/s from bridge "detour to 15" (Corona) — Ed's Junkyard 19

18-19 d/s from bridge ~~of~~ gravel pits - pond, end of concrete channel

20 pond

21 pond

22-23 Cajalco ~~Rd~~ Street above pond by Fontana Paving Inc Standing water under bridge / RR bridge 25

24-25 gaging Station - Minnesota St. 25

-3 Minnesota St. Flood Control Channel Concrete lining, then Natural #1-3

4 Calajco - dry 4

5 flood plain near gage / Minnesota 5

6-12 Lee Lake 6-9

~~13 Before Nichols Rd Lake Rd Standing H2O~~

Elsinore Water District Ditch directly adjacent to Ck. 11-12

Between Nichols Rd and Lake Rd 13

14 Standing Water closer to Lake (with Elsinore Ditch adjacent) 14

15 16 Near Beehives 3/4 mi to Lake St. 15-16

↳ (Beehives is a sampling & gaging station)

P4 _ 8.08

T _ 82.5

→

8-157

1983

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE CHINO, CALIFORNIA 91710 (714) 627-3628

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD WAL NO. 3110660-661

DATE RECEIVED 11-16-83

ATTENTION James W. Anderson DATE OF REPORT 11-22-83

SAMPLE IDENTIFICATION: Water samples for Fecal & Total Coliform

TANK NO. _____ GALLONS _____ SAMPLED 11-16-83

ANALYSIS		STANDARD		RESULTS	
AL #	LOCATION	DATE	TIME	COLIFORM (MPN/100 ml) Fecal	Total
110660	Temescal Wash at Nichols Road	11-16-83	1030 hrs	>2400	>2400
110661	Temescal Wash at Lake Elsinore	11-16-83	1000 hrs	8	70

SAWPA DES

001006097

RESULTS PHONED ☐ YES ☐ NO

TO WHOM _____

DATE _____

Joseph P. Zimmer

Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE CHINO, CALIFORNIA 91710 (714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO. 3110662

DATE RECEIVED 11-16-83

DEC 16 1983

DATE OF REPORT 12-9-83

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD Santa Ana Regional

ADDRESS 6809 Indiana Ave Riverside, CA 92506

ATTENTION James W. Anderson

SAMPLE IDENTIFICATION Surface Water

SAMPLING POINT Temescal Wash at Nichols Rd.

SAMPLED BY J. Schneider

DATES & HOURS SAMPLED 11-16-83 1030 hours

PARAMETER	VALUE		PARAMETER	VALUE	
Aluminum		mg/l	Nickel		mg/l
Ammonia (N)	0.16	mg/l	Nitrate (N)	0.97	mg/l
Antimony		mg/l	Oil & Grease		mg/l
Arsenic		mg/l	pH	7.98	
BOD		mg/l	Phenols		mg/l
Barium		mg/l	Phosphate - Ortho	0.44	mg/l
Beryllium		mg/l	Phosphate, Total		mg/l
Bismuth		mg/l	Potassium	14.7	mg/l
Boron	0.32	mg/l	Selenium		mg/l
COD		mg/l	Settleable Solids		ml/l
Cadmium		mg/l	Silver		mg/l
Calcium	43.4	mg/l	Sodium	145	mg/l
Chloride	131	mg/l	Specific Conductance 1150		micromhos/cm
Chlorinated Hydrocarbons- C_1 - C_6		mg/l	Sulfate	102	mg/l
Chromium (Hexavalent)		mg/l	Sulfide		mg/l
Chromium (Total)		mg/l	Surfactants (MBAS)		mg/l
Cobalt		mg/l	Suspended Solids		mg/l
Copper		mg/l	Temperature		°F
Cyanide		mg/l	Tin		mg/l
Dissolved Oxygen		mg/l	Titanium		mg/l
Flow (total)		gals/day	Total Alkalinity	196	mg/l
Flow (peak)		gals/min	Bicarbonate Alkalinity	196	mg/l
Fluoride		mg/l	Carbonate Alkalinity	0	mg/l
Iron	1.75	mg/l	Total Dissolved Solids - (Filterable Residue)	758	mg/l
Lead		mg/l	Total Hardness	175	mg/l
Magnesium	16.1	mg/l	Turbidity		Units
Manganese		mg/l	Zinc		mg/l
Mercury		mg/l			

Hydroxide Alkalinity 0. mg/l

Carbon Dioxide 3.9 mg/l

Silica 21 mg/l

SAWPA DES

001006098

Laboratory Director

All samples are analyzed by "Standard Methods" of APHA or EPA, "Methods for Chemical Analysis of Water and Waste".

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE CHINO, CALIFORNIA 91710 (714) 627-3628

STATE APPROVED WATER LABORATORY

WAL NO. 3110663

DATE RECEIVED 11-16-83

DATE OF REPORT 12-9-83

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD Santa Ana Region

ADDRESS 6809 Indiana Ave Riverside, CA 92506

ATTENTION James W. Anderson

SAMPLE IDENTIFICATION Surface Water

SAMPLING POINT Temescal Wash at Lake Elsinore

SAMPLED BY M. Salter

DATES & HOURS SAMPLED 11-16-83 1000 hours

PARAMETER	VALUE		PARAMETER	VALUE	
Aluminum		mg/l	Nickel		mg/l
Ammonia (N)	0.10	mg/l	Nitrate (N)	0.84	mg/l
Antimony		mg/l	Oil & Grease		mg/l
Arsenic		mg/l	pH	8.20	
BOD		mg/l	Phenols		mg/l
Barium		mg/l	Phosphate - Ortho	0.31	mg/l
Beryllium		mg/l	Phosphate, Total		mg/l
Bismuth		mg/l	Potassium	16.8	mg/l
Boron	0.30	mg/l	Selenium		mg/l
COD		mg/l	Settleable Solids		ml/l
Cadmium		mg/l	Silver		mg/l
Calcium	30.4	mg/l	Sodium	178	mg/l
Chloride	148	mg/l	Specific Conductance 1100		micromhos/cm
Chlorinated Hydrocarbons- C_1 - C_6		mg/l	Sulfate	88.9	mg/l
Chromium (Hexavalent)		mg/l	Sulfide		mg/l
Chromium (Total)		mg/l	Surfactants (MBAS)		mg/l
Cobalt		mg/l	Suspended Solids		mg/l
Copper		mg/l	Temperature		°F
Cyanide		mg/l	Tin		mg/l
Dissolved Oxygen		mg/l	Titanium		mg/l
Flow (total)		gals/day	Total Alkalinity	188	mg/l
Flow (peak)		gals/min	Bicarbonate Alkalinity	188	mg/l
Fluoride		mg/l	Carbonate Alkalinity	0	mg/l
Iron	0.19	mg/l	Total Dissolved Solids - (Filterable Residue)	652	mg/l
Lead		mg/l	Total Hardness	137	mg/l
Magnesium	14.8	mg/l	Turbidity		Units
Manganese		mg/l	Zinc		mg/l
Mercury		mg/l			

Hydroxide alkalinity 0 mg/l

Carbon Dioxide 1.1 mg/

Silica 6.4 mg/

SAWPA DES

001006099

Joseph P. Zimmer

Laboratory Director

All samples are analyzed by "Standard Methods" of APHA or EPA, "Methods for Chemical Analysis of Water and Waste".

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE CHINO, CALIFORNIA 91710 (714) 627-3628

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SANTA ANA REGION

WAL NO. 3070935-41

DATE RECEIVED 7-26-83

ATTENTION James W. Anderson

DATE OF REPORT 8-5-83

SAMPLE IDENTIFICATION: Water samples for Fecal & Total Coliform from Temescal Wash Collected by J. Sneider & J. Earls

TANK NO. _____ GALLONS _____ SAMPLED 7-26

ANALYSIS			STANDARD	RESULTS	
WAL #	SAMPLE	LOCATION	TIME	COLIFORM (MPN/100) Fecal	Total
3070935	1	Upstream of lake Elsinore pumps	09:20	11	540
3070936	2	at Nichols Rd	09:50	>2400	>2400
3070937	3	at Dawson Cyn dirt road	11:00	140	1600
3070938	4	at Cajalco Rd	11:20	920	>2400
3070939	5	at Magnolia	11:50	33	70
3070940	6	at 3rd St. Corona (under 91 Fwy)	12:10	170	350
3070941	7	Downstream of Rincon Road	13:15	350	350

SAWPA DES
001006100

RESULTS PHONED ☐ YES ☐ NO

TO WHOM _____

DATE _____

Laboratory Director

Location: Temescal Wash, ~ 150 yds. downstream of Elsinore pumps

Date: 11-16-83 Time: 1000 hrs.

Sample #: 1

Sampled by: M. Salter / J. Schneider

Weather: scattered clouds

Water Temp: 20°C

Air Temp: ~74° F

Water Appearance: brown-green, turbid

Flow: 30'/23 sec D = 5+' W = 26' ≈ 169 ft³/sec

Location: Temescal Wash at Nichols Rd.

Date: 11-16-83 Time: 1030 hrs.

Sample #: 2

Sampled by: J. Schneider

Weather: scattered clouds

Water Temp: 18°C

Air Temp: ~ 75° F

Water Appearance: green-brown; turbid

Flow: D= ~2' ; W= 30' ; 60' / 36 sec. ≈ 100 ft³/sec.

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE CHINO, CALIFORNIA 91710 (714) 627-3628

CUSTOMER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

WAL NO. 3070935-941

DATE RECEIVED 7-26-83

ATTENTION James Anderson

DATE OF REPORT 8-5-83

SAMPLE IDENTIFICATION: Temescal Wash (see Coliform sheet for location and time)

TANK NO. _____ GALLONS _____ SAMPLED 7-26

ANALYSIS		STANDARD		RESULTS		
L #	SAMPLE	AMMONIA NITROGEN (mg/l)	NITRATE NITROGEN (mg/l)	NITRITE NITROGEN (mg/l)	TOTAL ORGANIC Nitrogen (mg/l)	FILTERABLE RESIDUE (mg/l)
70935	1	0.05	0.62	0.01	0.14	587
0936	2	0.04	0.44	0.01	0.76	636
70937	3	0.12	0.55	0.01	0.66	674
70938	4	0.12	0.86	0.02	0.16	686
70939	5	0.13	0.70	0.03	0.03	698
70940	6	0.15	0.68	0.03	0.04	686
70941	7	0.12	3.84	0.05	0.07	795

001006096
SAWPA DES

RESULTS PHONED ☐ YES ☐ NO

TO WHOM _____

DATE _____

Laboratory Director

Sample #: 1 Location: Lake Elsinore – Temescal Wash

Sampled by: J. Earls, J. Schneider

Time: 9:20 ~30 yds upstream of pumps

Date: 7-26-83

Weather: 75° F; clear

Water Temp: 26°C rapid flow – 7 out of 10 pipes

Air Temp: ~75° F

Water Appearance: greenish - slightly turbid

Flow: 26' × 5' × (30'/24 sec) ≈ 162.5 cfs

Sample #: 2 Location: Temescal Wash at Nichols Rd.

Sampled by: JEB, J Earls

Time: 0950

Date: 7-26-83

Weather: clear

Water Temp: 24° C

Air Temp: 75-80° F

Water Appearance: green, turbid

Flow : 30' x 3' x (78' / 40 sec) = 175.5 cfs

Sample #: 3

Location: Temescal Wash at Dawson Canyon dirt road

Sampled by: Jeff Eagle, JES

Time: 1100

Date: 7-26-83

Weather: Clear Calm

Water Temp: 26° C

Air Temp: 80-85° F

Water Appearance: green, slightly turbid

Flow: 5 culverts @ 1½' × 3' × (20'/5 sec) = 90 cfs

Sample #: 4 Location: Temescal Wash at Cajalco Rd.

Sampled by: JEB, J. Earls

Time: 1120 hrs

Date: 7-26-83

Weather: clear, occasional light wind

Water Temp: 25°C

Air Temp: 80-85°F

Water Appearance: green, slightly turbid

Flow: (45' / 11sec) x 1½' x 33' = 198 cfs

Sample #: 5 Location: Temescal Wash at Magnoli

Sampled by: JES, Jeff Earls

Time: 1150

Date: 7-26-83

Weather: clear; occasional light wind

Water Temp: 25° C

Air Temp: 85° F

Water Appearance: brown green; slightly turbid

Flow: 4 culverts @ 4½' x 1.3' x (60'/10sec) = 140.4 cfs

Sample #: 6

Location: Temescal Wash at 3rd st Corona (Under 91 Fwy)

Sampled by: Jeff Earls JES

Time: 1210 hrs

Date: 7-26-83

Weather: clear

Water Temp: 27°C

Air Temp: 85°F

Water Appearance: turbid; brown-green

Flow ponded

Sample #: 7 Location: Temescal Wash downstream of Rincon Rd.

Sampled by: JES, Jeff Ennis

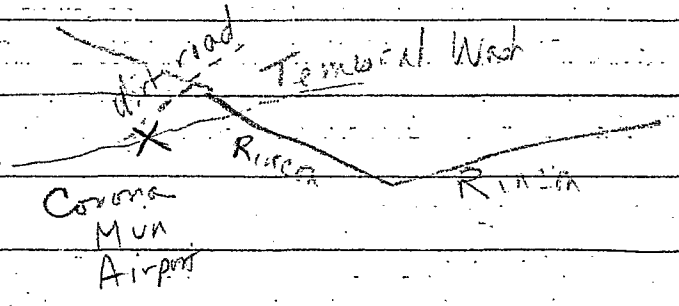
Time: 1315 hrs

Date: 7-26-83

Weather: clear

Water Temp: 27°C

Air Temp: 85 °F



Water Appearance: muddy brown (downstream of construction — Temescal Flood Control Proje

Flow 1' x 57' x (45'/19 sec) = 136.8 cfs