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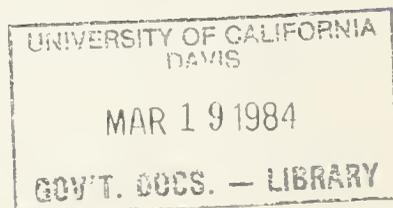


THE RESOURCES AGENCY OF CALIFORNIA
Department of Water Resources

BULLETIN No. 68-62

RECLAMATION OF WATER FROM
SEWAGE AND INDUSTRIAL WASTES
IN CALIFORNIA
JULY 1, 1955 — JUNE 30, 1962

OCTOBER 1963



HUGO FISHER
Administrator

The Resources Agency of California

EDMUND G. BROWN
Governor
State of California

WILLIAM E. WARNE
Director
Department of Water Resources

State of California
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Department of Water Resources

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WILLIAM E. WARNE
Director of
Water Resources

EDMUND G. BROWN
GOVERNOR OF
CALIFORNIA

HUGO FISHER
ADMINISTRATOR
RESOURCES AGENCY

ADDRESS REPLY TO
P. O. Box 388
Sacramento 2, Calif.

ABBOTT GOLDBERG
Chief Deputy Director

REGINALD C. PRICE
Deputy Director Policy

NEELY GARDNER
Deputy Director
Administration

ALFRED R. GOLZÉ
Chief Engineer



THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

1120 N STREET, SACRAMENTO

August 5, 1963

Honorable Edmund G. Brown, Governor
and Members of the Legislature of
the State of California

State and Regional Water Pollution Control Boards

Gentlemen:

I have the honor to transmit herewith Bulletin No. 68-62, "Reclamation of Water From Sewage and Industrial Wastes in California, July 1, 1955-June 30, 1962." This is the fourth report to the Governor, the Legislature, and the Water Pollution Control Boards presenting information on waste treatment facilities, quality and quantity of major waste discharges, and waste water reclamation projects throughout the State. This report is made as directed by Section 230 of the Water Code.

This report presents data which serve as a basis for detailed studies of the feasibility of reclaiming waste waters for beneficial use. Investigation of the feasibility and practicability of reclamation of waste waters, under Section 230 of the Water Code, is an integral part of the study and planning activities of this department in the development of the State's water resources.

Included in this report are information and data on 208 waste water treatment plants which were discharging approximately 1,600,000 acre-feet of waste water per year by the end of the reporting period. Of this 1,600,000 acre-feet of waste water, about 90,000 acre-feet were reclaimed annually. The water reclaimed was used primarily for irrigated agriculture with lesser amounts being used for ground water replenishment, industrial, and recreational purposes.

Sincerely yours,

A handwritten signature in dark ink, appearing to read "William E. Warne". The signature is written in a cursive style with a prominent initial "W".

Director

STATE OF CALIFORNIA
THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

EDMUND G. BROWN, Governor
HUGO FISHER, Administrator, The Resources Agency of California
WILLIAM E. WARNE, Director, Department of Water Resources
ALFRED R. GOLZE, Chief Engineer

DIVISION OF RESOURCES PLANNING

William L. Berry Division Engineer
Albert J. Dolcini Chief, Planning Management Branch

This report was prepared
under the supervision
of

Arthur J. Inerfield Supervising Engineer, Water Resources
by

Charles G. Gunnerson Senior Engineer, Water Resources
and

Edwin A. Ritchie Water Resources Engineering Associate
with assistance by

B. J. Archer Assistant Civil Engineer, Bay Area Branch
D. V. Kennedy Assistant Civil Engineer, Delta Branch
W. L. Thomas Assistant Civil Engineer, Northern Branch
R. R. Nicklen Water Resources Engineering Associate,
San Joaquin Valley Branch

K. B. Nixt . Associate Engineer, Water Resources, Southern District

CALIFORNIA WATER COMMISSION

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-----0-----

WILLIAM M. CARAH
Executive Secretary

GEORGE B. GLEASON
Principal Engineer

ACKNOWLEDGMENTS

Many of the data used in connection with this report were contributed by public and private agencies and by individuals. The cooperation of the following agencies is gratefully acknowledged:

State Water Pollution Control Board

Regional Water Pollution Control Boards

State Department of Public Health,
Bureau of Sanitary Engineering and
Division of Laboratories

The cooperation received from the many counties, municipalities, public districts, and other entities in the collection of samples for the various analyses reported herein also is gratefully acknowledged.

Unless otherwise indicated, sanitary analyses were performed by the Department of Water Resources' mobile laboratory and by the State Department of Public Health, Division of Laboratories. Mineral analyses were performed by the United States Geological Survey and by laboratories of the Department of Water Resources in both Northern and Southern California. Radiological analyses were performed by the California Disaster Office Laboratory or by a commercial laboratory.

CHAPTER I. INTRODUCTION

The California Department of Water Resources conducts two types of investigations pertaining to reclamation of water from wastes. The first is a continuing statewide inventory program of determining the quantity and quality of waste discharges and, in addition, evaluating the operation of existing reclamation projects. The second type consists of detailed studies at specific locations to evaluate the feasibility of potential waste water reclamation projects. Both of these types of investigations are performed under the authority of Section 230 of the Water Code.

This report is the fourth in a series of reports inventorying waste water reclamation in California, and covers the period from July 1, 1955, to June 30, 1962.

Related Investigations and Reports

The Department of Water Resources previously has published three statewide inventory reports covering the years prior to 1955. These are:

1. Reclamation of Water From Sewage or Industrial Waste. December 1952.
2. Reclamation of Water From Sewage or Industrial Waste. June 1954.
3. Bulletin No. 68, Reclamation of Water From Sewage and Industrial Wastes. July 1, 1953 - June 30, 1955. January 1958.

Three additional reports have been prepared on reclamation of water from wastes in specific areas. These are:

4. Bulletin No. 67, Reclamation of Water From Sewage and Industrial Wastes, Watsonville Area, Santa Cruz and Monterey Counties. 1955.
5. Office Report. Feasibility of Reclamation of Water From Sewage in International Outfall Sewer, Tia Juana Valley, California. December 1955.
6. Bulletin No. 80, Feasibility of Reclamation of Water From Wastes in the Los Angeles Metropolitan Area. December 1961.

Scope of Program and Report

The objectives of this activity are to stimulate an interest in, and to encourage investigation into, the use of reclaimed waste water for beneficial use and to assist, by collecting and presenting data on the quantity and quality of wastes in California which may be susceptible to reclamation.

In general, only waste discharges of more than one-half million gallons per day, or 550 acre-feet per year, are considered. However, in those areas where water may be in short supply or where waste water reclamation is otherwise significant, discharges of less than this amount have been considered.

To obtain data for the preparation of this report, the field program comprised the following:

1. Interviews with waste discharging agencies to obtain flow records, changes in facilities, and reclamation practices.
2. Collection of hourly waste water samples over an 8-hour, 16-hour, or 24-hour period, dependent upon local conditions, for determinations of water quality. The samples were generally composited by flow so that analyses more representative of the

average quality of the discharge could be obtained. When ponded effluents were sampled, only grab samples were collected. Field analyses were made on individual hourly samples to determine pH, temperature, electrical conductivity, and chloride concentration. Hourly flows were also recorded.

Laboratory determinations for sanitary and mineral quality of the samples were made in accordance with the tenth edition of "Standard Methods for the Examination of Water, Sewage, and Industrial Wastes," published by the American Public Health Association. Sanitary analyses included determination of five-day 20°C biochemical oxygen demand, suspended solids, ether soluble material, most probable number of coliform organisms, and, in certain instances, nitrogen and phosphorus series. Mineral analyses consisted of determination of electrical conductivity and pH, and measurements of concentrations of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, sulfate, chloride, nitrate, fluoride, boron, silica, total dissolved solids, hardness, and, in certain instances, ammonium and phosphate. Gross radioactivity was determined on selected discharges after 1957.

Chapter II of this report presents information on the locations, quantities, and characteristics of waste discharges throughout the State. Chapter III discusses factors which are basic to waste water reclamation, and includes a summary tabulation of reclamation operations as of the close of the reporting period.

Basic data, statistics, and general information pertaining to waste treatment facilities in California which discharge more

than one-half million gallons per day are tabulated in the appendixes. Data and information are presented by water pollution control region, of which there are nine in the State. They are:

- North Coastal Region (No. 1)
- Sán Francisco Bay Region (No. 2)
- Central Coastal Region (No. 3)
- Los Angeles Region (No. 4)
- Central Valley Region (No. 5)
- Lahontan Region (No. 6)
- Colorado River Basin Region (No. 7)
- Santa Ana Region (No. 8)
- San Diego Region (No. 9)

Waste water discharge locations in each of the nine water pollution control regions are shown on plates accompanying this report. Location numbers and agency designations shown on the plates correspond with the numbers and names used in all tabulations in the appendixes.

Definitions

The following terms are defined for use in this report:

Sewage--Any and all waste substance, liquid or solid, associated with human habitation, or which contains or may be contaminated with human or animal excreta or excrement, offal, or any feculent matter. As used in this report, sewage includes all liquid wastes carried by community sewer systems.

Industrial waste--Any and all liquid or solid waste substance, not sewage, from any producing, manufacturing, or processing operation of whatever nature.

Waste water--A term including sewage, industrial waste, or any combination of the two.

Sewerage systems--A system for collecting, transporting, pumping, treating, and disposing of sewage and industrial wastes.

Primary sewage treatment--The first major treatment in a sewage treatment plant which removes, by sedimentation and flotation, a large portion of suspended matter, but little or no colloidal and dissolved matter.

Secondary sewage treatment--The treatment of sewage by biological methods which follows primary treatment, and which accomplishes further stabilization of organic matter.

Reclamation--The process of recovering water from sewage and/or industrial waste for beneficial purposes, whether by means of special facilities or through natural processes.

Planned or deliberate reclamation--The recovery of all or part of the water in a sewage or industrial waste for direct beneficial use where engineering control is maintained.

Incidental reclamation--The recovery of water from sewage or industrial waste subsequent to the discharge of the waste, and which occurs without specific engineering control.

CHAPTER II. WASTE WATER DISCHARGES

This chapter presents a discussion of the characteristics of waste discharge facilities in the State which, with few exceptions, discharged more than one-half million gallons per day during the period July 1, 1955-June 30, 1962. Included in this report are data pertaining to 208 plants which discharged, in 1961-62, a total of approximately 1.6 million acre-feet of waste water. Of this total, slightly more than 1.3 million acre-feet, or about 80 percent, were discharged to tidal waters, while the remainder were discharged, in approximately equal portions, to land (165,000 acre-feet), or to inland waters (169,000 acre-feet). Wastes discharged to tidal waters are not recoverable and are lost forever. Wastes discharged within inland basins to streams and land are available to a degree for subsequent utilization. By infiltrating to underlying ground waters or by mingling with surface flows, the waste waters can be diverted and used. The water losses associated with inland basin disposal are the result of evaporation, and transpiration. That portion of flow in surface streams which reaches tidal waters unused is also lost. These latter losses are not evaluated in this report.

Waste discharge facilities and their characteristics are summarized in the succeeding sections of this chapter by water pollution control region. The location of each facility is shown on the plates accompanying this report. A separate plate has been prepared for each of the nine water pollution control regions.

The treatment processes employed at each waste disposal facility are described, in brief, in Appendix A. Also listed is whether the waste treated is domestic or industrial, and whether ultimate disposal is to land, inland waters, or tidal waters.

Where possible, waste quantities were determined from records of metered flow maintained by discharging agencies. In those cases where flow records were not obtainable, quantities were estimated by the discharging agencies, or by the Department of Water Resources, from intermittent measurements and partial records. Statistics pertaining to the quantities of wastes discharged at each facility are tabulated in Appendix B. Unless otherwise noted, all statistics relating to quantities of wastes presented in this report are for the 12-month period beginning July 1 and ending June 30.

Quality data were obtained by analysis of composite samples. When composite samples could not be obtained, single grab samples were substituted. Also included are analytical data obtained during the course of other investigations, and those supplied by dischargers and other agencies. Results of mineral analyses are presented in Appendix C, and results of sanitary and radiological analyses are listed in Appendix D.

The numbers assigned to each treatment facility are used in all tabulations in the appendixes and correspond with the plant location number shown on the plates.

North Coastal Region (No. 1)

During the period 1955-62, there were six waste water discharges equaling or exceeding one-half million gallons per day in

the North Coastal Region. These discharges were from the communities of Arcata, Eureka, Willits, Ukiah, and Santa Rosa; and from Mendocino State Hospital, located near Ukiah. The locations of these discharges are shown on Plate 1. The total waste discharged by these five agencies ranged from 8,420 to 14,210 acre-feet per year between July 1, 1955, and June 30, 1962, depending upon the amount of precipitation. About 18 percent of the waste water discharged during 1961-62 received primary treatment, while the remaining 82 percent received secondary treatment. Wastes from Arcata and Eureka, about 28 percent of the total for the region, were discharged to Arcata and Humboldt Bays, respectively. The remaining facilities discharged waste water to inland streams or onto land. An estimated 150 acre-feet of waste water was deliberately reclaimed in the North Coastal Region in 1961-62.

San Francisco Bay Region (No. 2)

In the San Francisco Bay Region, on June 30, 1962, there were 52 waste water discharges which equaled or exceeded one-half million gallons per day. Locations of these discharges are shown on Plate 2. Of the nine water pollution control regions in the State, the San Francisco Bay Region is second in total volume of waste water discharged each year. About one-fourth of the 1.6 million acre-feet of waste water accounted for in this report for 1961-62 was produced in the San Francisco Bay Region. The large volume of waste is due to the fact that the area is largely urbanized. In this region, between 323,730 and 445,170 acre-feet of waste water was discharged each year during the period 1955-62.

At the close of the reporting period (June 30, 1962) approximately 85 percent of the waste water discharged within the region received primary treatment. Another 12 percent received secondary treatment, and 3 percent received no treatment. Of the 445,170 acre-feet of waste water produced in 1961-62, only 6,050 acre-feet, or 1.4 percent, was discharged to land or inland (non-tidal) waters. The remainder was discharged to tide waters of the San Francisco Bay complex. Only 720 acre-feet of waste water was deliberately reclaimed in this region in 1961-62.

Central Coastal Region (No. 3)

In this region, the 19 waste water discharges listed in the appendixes equaled or exceeded one-half million gallons per day by June 30, 1962. Locations of waste disposal facilities are shown on Plate 3. Between 25,270 and 42,290 acre-feet per year of waste water was discharged for the period 1955-62.

As of June 30, 1962, 55 percent of the wastes in the Central Coastal Region received primary treatment, and 45 percent received secondary treatment. Of the 42,290 acre-feet treated in 1961-62, 27,450 acre-feet, or 65 percent, was discharged to the Pacific Ocean, while the remainder was discharged to streams or onto land for irrigation. An estimated 5,180 acre-feet of waste water was deliberately reclaimed in this region in 1961-62.

Los Angeles Region (No. 4)

Fourteen waste water discharges are listed in the appendixes for the Los Angeles Region. With one exception, all facilities discharged at least one-half million gallons per day

as of June 30, 1962. Locations of waste discharges in the Los Angeles Region are shown on Plate 4.

This region, the most heavily urbanized of the nine water pollution control regions in the State, discharges a total volume of waste each year which is considerably greater than that discharged in the other eight regions. In fact, the wastes discharged in this region constitute over one-third of the statewide volume of 1.6 million acre-feet of waste water accounted for in this report for 1961-62. A total of from 501,580 to 649,260 acre-feet of waste water was discharged yearly for the period July 1, 1955-June 30, 1962. Of these totals, 95 percent was about equally divided between the two largest treatment facilities in the State, the City of Los Angeles' Hyperion Plant and the County Sanitation Districts of Los Angeles County's Joint Disposal Plant. Of the 649,260 acre-feet discharged in 1961-62, one-half, or 50 percent, received primary treatment, and one-half received secondary treatment. About 99 percent of the waste water was discharged directly to the Pacific Ocean. Six relatively small installations discharged waste waters to land areas. A total of 6,930 acre-feet of waste water was deliberately reclaimed.

Central Valley Region (No. 5)

During 1961-62, there were 56 facilities in the Central Valley Region which discharged one-half million or more gallons per day of waste water. Their locations are shown on Plate 5. The total quantity of waste discharged from these plants ranged from 197,450 to 258,250 acre-feet per year for the period 1955-62.

About 57 percent of the 258,250 acre-feet of waste water discharged during 1961-62 within this region received primary treatment, and about 43 percent received secondary treatment. Approximately 35 percent of the waste water was discharged to land, primarily for irrigation. Discharges to streams and tidal waters amounted to 47 and 18 percent, respectively.

An estimated 47,000 acre-feet, or over half of the waste water reported as being deliberately reclaimed in the State in 1961-62, was reclaimed in this region. It should be pointed out that reclamation operations for all but 5,300 acre-feet of this total was situated in the southern half of the San Joaquin Valley, and that 20,000 acre-feet was reportedly reclaimed by the City of Fresno.

Lahontan Region (No. 6)

Within the Lahontan Region, 9 of the 10 waste water discharges listed in the appendixes equaled or exceeded one-half million gallons per day by the end of the reporting period. Discharge locations are shown on Plate 6. Much of the area, particularly the southern portion, is desert and sparsely populated. Consequently, the total volume of waste water discharged in this region each year during the period of record is quite small in comparison with the volume discharged in the other water pollution control regions of the State. For 1955-62, the volume discharged ranged from 8,240 to 12,120 acre-feet per year. Of the 12,120 acre-feet discharged during 1961-62, 18 percent received primary treatment, and 82 percent received secondary treatment. All of the waste water in this region was discharged to land. For 1961-62, an estimated 5,430 acre-feet of waste water was reclaimed in the Lahontan Region.

Colorado River Basin Region (No. 7)

Ten waste discharges are shown on Plate 17 for the Colorado River Basin Region. Nine of these facilities discharged at least one-half million gallons per day by June 30, 1962. As was the case in the Lahontan Region (No. 6), much of this region is composed of sparsely populated desert areas. Consequently, the total quantity of waste water discharged each year in this region is relatively small when compared to the quantity discharged in the other regions of the State. A total ranging from 8,730 to 12,980 acre-feet of waste water was discharged yearly during the period July 1, 1955-June 30, 1962.

Of the 12,980 acre-feet of waste water discharged in 1961-62, approximately 16 percent received primary treatment, and 84 percent received secondary treatment. Fifty-seven percent of the water was discharged to stream channels, while the remainder (43 percent) was discharged to land. In 1961-62, it is estimated that 4,120 acre-feet was subjected to planned reclamation.

Santa Ana Region (No. 8)

Eighteen of the 20 waste water discharges listed in the appendix for the Santa Ana Region equaled or exceeded one-half million gallons per day as of June 30, 1962. Discharge locations for the Santa Ana Region are shown on Plate 8.

The yearly discharge for the period 1955-62 ranged from 56,990 to 128,270 acre-feet per year. About two-thirds of the yearly totals were handled by the two plants operated by the County Sanitation Districts of Orange County, which serve much of the urban area of Orange County.

Of the 128,270 acre-feet discharged in 1961-62, 67 percent received primary treatment, and 33 percent received secondary treatment. About 36 percent of the wastes were discharged onto land or to inland waters, while the remainder (64 percent) was spilled directly into the Pacific Ocean. Some 12,460 acre-feet was estimated as being deliberately reclaimed in this region in 1961-62.

San Diego Region (No. 9)

There are 21 facilities operated by 17 agencies in the San Diego Region. In June 1962 discharges by each of the 17 agencies exceeded one-half million gallons per day. Plate 9 shows the locations of waste discharges in the San Diego Region.

For the period 1955-62, the yearly discharge ranged from 59,590 to 79,170 acre-feet, with about three-fourths of the water coming from the San Diego metropolitan area. Of the 1961-62 quantity of 78,810 acre-feet, 76 percent received primary treatment, 20 percent received secondary treatment, and 4 percent was untreated. About 17 percent of the wastes in the region were discharged to land or to stream channels, while 83 percent were discharged to San Diego Bay or directly to the Pacific Ocean. An estimated 6,110 acre-feet of waste water was deliberately reclaimed in this region during 1961-62.

CHAPTER III. RECLAMATION OF WATER FROM SEWAGE AND INDUSTRIAL WASTES

Waste water may be reclaimed either by natural processes or by special facilities and procedures designed for reclamation. Incidental reclamation occurs when wastes are discharged into streams from which waters are diverted for downstream use, percolate into ground waters, or repel salt water in the tidal reaches. Incidental reclamation also occurs when wastes discharged onto land for disposal percolates to the ground water and is subsequently extracted for use. An example of incidental reclamation is when the percolate from a septic tank with underground leaching lines reaches the ground water.

Planned, deliberate reclamation is accomplished by specific waste treatment and disposal works which are operated in whole or in part to provide an immediate source of water. It is with this type of reclamation that the following paragraphs are concerned. The reuse of water within an industrial installation for the purposes of this report is considered a water conservation measure rather than reclamation of waste water, and consequently has been omitted from this discussion.

The greatest potential for planned, economical reclamation lies in the sewage discharges of municipalities and districts located throughout the State which are already receiving some degree of treatment in order to provide a waste capable of discharge without causing pollution or contamination in a receiving water. In some cases, only slight additional treatment will make these waters suitable for use.

Waters which have been deliberately reclaimed from sewage and industrial wastes have, for many years, been used throughout the world. The bulk of these waters has been used for irrigated agriculture, with a lesser amount going to industrial use. More recently, reclaimed waters have been used for irrigation of golf courses, parks, and freeway planting strips, for creation of recreational lakes and streams, for operation of sanitary systems, and for replenishment of ground waters.

In California, the demand for water has been increasing rapidly due to the ever-increasing requirements of irrigated agriculture, communities, and industries. Consequently, many areas of California are finding that existing developed water supplies are overdrawn, and cheap water supplies from new sources are becoming more and more difficult to obtain. To add to the problem, metropolitan sewerage systems with ultimate disposal in the ocean are being extended into areas which formerly practiced incidental reclamation through individual or community sewage disposal systems which discharged inland. The loss of water which was formerly reclaimed has been accepted as a part of the price of improved sanitation. All of these factors combine so as to make deliberately reclaimed waste water an attractive source of water supply for some uses in many coastal areas, and an essential source in certain areas. In fact, a number of water agencies in metropolitan areas of the State have been actively studying the economic and engineering aspects of installing major facilities for reclamation of sewage and industrial wastes.

Related to California's rapid urban growth are the increasing quantities of sewage and industrial wastes capable of being reclaimed. Although small when compared to the total water requirements of the State, the purposeful and intelligent reclamation of these wastes can well fit into the orderly development of California's water resources.

As noted in the introduction, the purpose of this report is to provide an inventory of major waste discharges within the State, together with sufficient flow and water quality data to permit recognition of and preliminary planning for potential waste reclamation projects. Because of the benefit to be derived from the direct reclamation of waters which would otherwise be discharged into salt water and lost, the department has studied the feasibility of sewage reclamation in several coastal areas of the State (refer to page 2). It is hoped that these reports stimulated the interest of the local agencies and encouraged inquiry into the possibilities of putting to beneficial use water now being wasted to the ocean.

The status of waste water reclamation activities during 1961-62 is summarized in Table 1. Of the 1.6 million acre-feet of waste water discharged during the year by municipal, military, and industrial facilities discussed in Chapter II, about 90,000 acre-feet, or 5.5 percent, was directly reclaimed. Review of the locations, quantities, and qualities of waters used in existing reclamation projects shows that there are no universal water quality criteria which can be used to determine the feasibility of reclamation. In addition, reclamation, in some cases, results in a lower

overall cost of waste disposal than when waste disposal is considered alone. This situation results when the disposal of waste waters without nuisance, pollution, or contamination, requires installation of expensive treatment facilities not needed when reuse of waste waters is considered. The feasibility of waste water reclamation must be determined on an individual basis at specific locations. Not to investigate the possibilities of waste water reclamation, particularly in water-deficient areas, could well mean that a resource of the State, which might be conserved, is being wasted forever.

TABLE 1

WASTE WATER RECLAMATION OPERATIONS, 1961-62

Agency	: Total : waste : discharged, : acre-feet	: Planned : : reclama- : tion, : : acre-feet:	Remarks
<u>North Coastal Region (No. 1)</u>			
City of Santa Rosa	5,890	150 ^(a)	Portion of effluent used for irrigation of 150 acres of corn; balance to Santa Rosa Creek.
<u>San Francisco Bay Region (No. 2)</u>			
City of San Francisco			
McQueen Plant	670	670	Plant operated solely for reclamation. Effluent stored in decorative lakes and used for irrigation in Golden Gate Park.
Las Gallinas Valley Sanitation District	780	50 ^(a)	Portion of effluent used for irrigation of 50 acres of pasture; balance to Miller Creek.
<u>Central Coastal Region (No. 3)</u>			
Carmel Sanitation District	1,790	300 ^(a)	Portion of effluent used to irrigate 200 acres of artichokes; balance to Monterey Bay.
City of San Luis Obispo	2,880	2,880	Effluent used to irrigate pasture.
City of Santa Maria	4,000	2,000 ^(a)	Portion of effluent used to irrigate alfalfa.
<u>Los Angeles Region (No. 4)</u>			
City of Ojai	820	200	Effluent used to irrigate golf course.
Camarillo State Hospital	810	810	Effluent used to irrigate pasture.
City of Los Angeles, Hyperion Plant	311,630	1,100	Effluent used to irrigate lawns.

TABLE 1 (continued)

WASTE WATER RECLAMATION OPERATIONS, 1961-62

Agency	: Total : waste : discharged, : acre-feet	: Planned : reclama- : tion, : acre-feet	Remarks
County Sanitation Districts of Los Angeles County			
Azusa Plant	730	730	Plant operated solely for reclamation. Effluent use to recharge ground water in Main San Gabriel Basin.
Lucky Lager Plant	380	380	Plant operated solely for reclamation. Effluent use to recharge ground water in Main San Gabriel Basin.
Pomona Plant	3,710	3,710	Portion of effluent sold for irrigation; balance to San Jose Creek and percolation.
<u>Central Valley Region (No. 5)</u>			
City of Woodland	2,300	375(a)	Portion of effluent used to irrigate 250 acres of suda grass; balance to Yolo Byp.
City of Lodi	4,400	1,600(a)	Portion of effluent used to irrigate 500 acres of pasture and milo; balance to White Slough.
City of Manteca	1,290	600	Portion of effluent used to irrigate 200 acres of alfalfa, milo, and pasture; balance to Delta Slough.
City of Madera	3,020	2,700(a)	Effluent used to irrigate 210 acres of alfalfa, cotton, and pasture; excess percolated.
City of Fresno	38,000	20,000(a)	Portion of effluent used for irrigation of 1,400 acres of cotton and milo; excess percolated.
City of Sanger	890	270(a)	Portion of effluent used for irrigation.

TABLE 1 (continued)

WASTE WATER RECLAMATION OPERATIONS, 1961-62

Agency	: Total : waste : discharged, : acre-feet	: Planned : : reclama- : tion, : : acre-feet:	Remarks
City of Lemoore	2,580	550 ^(a)	Portion of effluent used for irrigation.
City of Hanford	2,140	2,000	Effluent used to irrigate 160 acres of alfalfa; excess percolated.
City of Visalia	3,800	600	Effluent used to irrigate cotton, milo, alfalfa, and walnut trees.
City of Tulare	1,280	1,280	Effluent used to irrigate 377 acres of field crops; excess percolated.
City of Lindsay	1,200	550 ^(a)	Portion of effluent used for irrigation.
City of Porterville	920	600	Portion of effluent used for irrigation of cotton; balance percolated.
City of Delano	1,500	1,000	Portion of effluent used for irrigation; balance percolated.
North of River Sanitary District	2,350	1,800	Effluent used to irrigate about 160 acres of cotton; excess percolated.
City of Bakersfield	9,600	9,600	Effluent used to irrigate approximately 2,500 acres of cotton, feed corn, sugar beets, and permanent pasture.
Mount Vernon Sanitary District	3,450	3,450	Effluent used to irrigate 1,080 acres.
City of Taft	630	630	Effluent used to irrigate about 80 acres of alfalfa.

TABLE 1 (continued)

WASTE WATER RECLAMATION OPERATIONS, 1961-62

Agency	: Total : waste : discharged, : acre-feet	: Planned : : reclama- : tion, : acre-feet	Remarks
<u>Lahontan Region (No. 6)</u>			
City of Bishop	1,130	1,130	Effluent used to irrigate alfalfa.
USN Ordnance Test Station, China Lake	1,510	1,510	Portion of effluent used to irrigate golf course; excess to percolation bed.
County Sanitation Districts of Los Angeles County, Palmdale Plant	740	740	Effluent used for irrigation of alfalfa.
Victorville Sanitary District	1,110	1,110	Effluent used for ground water recharge.
City of Barstow	1,400	500 ^(a)	Effluent used to irrigate permanent pasture.
Susanville Consolidated Sanitary District	490	180 ^(a)	Portion of effluent used to irrigate field crops; excess to Susan River.
U. S. Marine Corps Supply Center, Nebo Plant	610	250 ^(a)	Portion of effluent used to irrigate golf course.
<u>Colorado River Basin Region (No. 7)</u>			
Indio Sanitary District	2,020	2,020 ^(a)	Effluent used to irrigate cotton and cut flowers.
USMC Training Center, Twentynine Palms	1,340	1,100 ^(a)	Portion of effluent used to irrigate golf course.
City of Banning	800	400 ^(a)	Portion of effluent used for irrigation of alfalfa.
Coachella Sanitary District	600	600	Effluent used to irrigate cotton and cut flowers.

TABLE 1 (continued)

WASTE WATER RECLAMATION OPERATIONS, 1961-62

Agency	: Total : waste : Discharged, : acre-feet	: Planned : : reclama- : tion, : : acre-feet:	Remarks
<u>Santa Ana Region (No. 8)</u>			
County Sanitation Districts of Orange County, Plant No. 1	30,610	740	Talbert Water District formed primarily to reclaim waste water from sanitation districts plant. Portion of effluent used for irrigation; balance to ocean.
City of Chino, Plant No. 1	190	190	Effluent used to irrigate pasture and field crops.
Kaiser Steel Corporation, Fontana	750	750	Effluent introduced into cooling system.
March Air Force Base	710	710	Effluent used for irrigation.
City of Corona	1,110	800 ^(a)	Portion of effluent used for irrigation.
City of Riverside, Plant No. 1	9,710	4,500 ^(a)	Portion of effluent used for irrigation of permanent pasture; balance to Santa Ana River.
City of Riverside, Plant No. 2	2,280	1,000 ^(a)	Effluent used for irrigation of alfalfa.
Cities of Ontario and Upland	6,740	1,600	Portion of effluent used for irrigation; balance to percolation into ground water of Chino Basin.
City of Colton	1,720	1,720	Effluent used for irrigation; balance to Santa Ana River.
USMC Air Station, El Toro	910	450 ^(a)	Portion of effluent used to irrigate golf course.
<u>San Diego Region (No. 9)</u>			
City of San Clemente	810	500 ^(a)	Portion of effluent used for irrigation of golf course; balance to ocean.

TABLE 1 (continued)

WASTE WATER RECLAMATION OPERATIONS, 1961-62

Agency	: Total : waste : discharged, : acre-feet	: Planned : : reclama- : tion, : : acre-feet:	Remarks
Camp Joseph H. Pendleton (USMC)	750	750	Effluent used to supply recreation lake.
Camp Joseph H. Pendleton, Plant No. 2	740	600 ^(a)	Portion of effluent used to irrigate golf course.
Santee County Water District	950	950	Effluent used to supply recreation lake; overflow used to irrigate golf course.
City of Oceanside	2,700	2,700	Effluent used for ground water recharge.
City of El Cajon	2,430	560	Portion of effluent used for irrigation of golf course.
City of Escondido	800	50 ^(a)	Portion of effluent used for irrigation.

(a) Estimated.

APPENDIX A
WASTE WATER TREATMENT FACILITIES

APPENDIX A

WASTE WATER TREATMENT FACILITIES

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TABLE A-1
WASTE WATER TREATMENT FACILITIES JUNE 30, 1962

NORTH COASTAL REGION (NO. 1)

Number	Agency	Type of waste	Description of treatment	Discharges to	Remarks
1	City of Arcata	Domestic and industrial	Grinding, grit removal, preaeration, primary settling, oxidation pond; sludge digestion and drying.	Arcata Bay	
2	City of Eureka (Murray Street Plant)	Domestic	Screening, grit removal, prechlorination, primary settling, postchlorination; sludge digestion and drying.	Humboldt Bay	
3	City of Willits	Domestic and industrial	Grinding, primary settling, trickling filter, oxidation ponds; sludge digestion and drying.	Broadus Creek	
4	City of Ukiah	Domestic	Screening, prechlorination, primary settling, trickling filter, secondary settling, oxidation pond; sludge digestion and drying.	Russian River	
5	Mendocino State Hospital	Domestic	Primary settling, trickling filter, secondary settling; sludge digestion and drying.	Irrigation and Percolation ditch.	
6	City of Santa Rosa	Domestic and industrial	Screening, preaeration, primary settling, trickling filter, secondary settling, oxidation pond; sludge digestion and drying.	Santa Rosa Creek - winter; Santa Rosa Creek and irrigation summer	

TABLE A-2
WASTE WATER TREATMENT FACILITIES JUNE 30, 1962
SAN FRANCISCO BAY REGION (NO. 2)

Number	Agency	Type of waste	Description of treatment	Discharge to	Remarks
1	Sausalito - Marin City Sanitary District	Domestic	Screening, primary settling, chlorination; sludge digestion and discharge to bay.	San Francisco Bay	
2	City of Hill Valley	Domestic	Screening, grit removal, primary settling, two-stage trickling filter, final settling; sludge digestion and drying.	Richardson Bay	
3	Marin County Sanitary Districts Nos. 1 and 2	Domestic	Screening, primary settling, trickling filter, final settling; sludge digestion and drying.	Corte Madera Creek to San Francisco Bay	
4	San Rafael Sanitation District	Domestic	Screening, primary settling; sludge digestion and drying.	San Francisco Bay	
5	Las Gallinas Valley Sanitary District	Domestic and Industrial	Screening, grit chamber, primary settling, trickling filter, secondary settling, sludge digestion and drying.	Miller Creek	Some effluent used to irrigate pasture land.
6	Marin County Sanitary District No. 6	Domestic	Screening, primary settling, primary (spiral vortex) mixing, step aeration, secondary (spiral vortex) and drying.	Novato Creek	
7	City of Petaluma	Domestic	Screening, primary settling, two-stage trickling filter, final settling, chlorination; sludge digestion and drying.	Petaluma River	
8	Napa County Sanitation District	Domestic and industrial	Screening, vacuum flotation, primary settling, two-stage trickling filter, chlorination; sludge digestion and drying.	Napa River	
9	Sonoma Valley Sanitation District	Domestic and industrial	Screening, grit chamber, aeration, primary settling, primary trickling filter, secondary settling, chlorination, sludge digestion and sludge drying.	Schell Slough	
10	Trevis Air Force Base	Domestic	Screening, grit chamber, primary settling, oxidation ponds, primary and secondary sludge digestion and sludge drying.	Union Creek	
11	Cities of Fairfield and Suisun	Domestic	Screening, primary settling, chlorination; sludge digestion and drying.	Suisun Slough	
12	Mare Island Naval Shipyard	Domestic and industrial	Screening, grit chamber preaeration, primary settling, primary and secondary sludge digestion and drying.	Mare Island Straits	
13	Vallejo Flood Control and Sanitation District	Domestic and industrial	Screening, prechlorination, preaeration, primary settling; sludge digestion and drying.	Mare Island Straits	
14	City of Benicia	Domestic	Prechlorination, screening, preaeration, primary settling, chlorination; sludge digestion and drying.	Carquinez Straits	
15	Ethyl Corporation	Industrial	None.	New York Slough	
16	Dow Chemical Company	Industrial	Clarification.	New York Slough	
17	United States Steel Company, Columbia-Geneva Division Cooling water Oil wastes Mill scale wastes	Industrial	None. Clarification. None.	New York Slough	

TABLE A-2 (continued)
WASTE WATER TREATMENT FACILITIES JUNE 30, 1962

SAN FRANCISCO BAY REGION (NO. 2)

Number	Agency	Type of waste	Description of treatment	Discharge to	Remarks
18	Johns - Marville Corporation	Industrial	Screening.	New York Slough	
19	City of Pittsburg	Domestic	Screening, grit removal, preaeration, primary settling; sludge digestion and composting.	New York Slough	
20	Shell Chemical Company	Industrial	Clarification.	Suisun Bay	
21	City of Concord	Domestic	Prechlorination, screening, grit removal, preaeration, primary settling, oxidation ponds; sludge digestion and drying.	Walnut Creek	
22	Central Contra Costa Sanitary District	Domestic	Prechlorination, screening, grit removal, preaeration, primary settling; sludge digestion and drying.	Suisun Bay	
23	City of Martinez	Domestic	Prechlorination, screening, primary settling; sludge digestion and drying.	Suisun Bay	
24	C & H Sugar Refinery	Industrial	None.	Carquinez Straits	Char wastes.
25	American Smelting and Refining	Domestic and industrial	Septic tank.	Carquinez Straits	Waste is two-thirds sea water.
26	San Pablo Sanitary District	Domestic and industrial	Grit removal, primary settling; sludge digestion and drying.	San Pablo Bay	
27	City of Richmond	Domestic and industrial	Screening, chlorination, combination, grit removal, preaeration, primary settling; primary and secondary sludge digestion, elutriation, vacuum filtration.	San Francisco Bay	
28	Stage Sanitary District	Domestic	Screening, grit removal, primary settling; sludge digestion and drying.	San Francisco Bay	
29	East Bay Municipal Utility District	Domestic and industrial	Prechlorination, screening, grit removal, primary settling; sludge digestion and disposal to bay.	San Francisco Bay	
30	City of San Leandro	Domestic	Screening, prechlorination, grit removal, primary settling, trickling filter, final settling, chlorination; sludge digestion and drying.	San Francisco Bay	
31	Oro Loma Sanitary District	Industrial	Screening, prechlorination, preaeration, primary settling; sludge digestion and drying.	San Francisco Bay	
32	City of Hayward	Domestic and industrial	Screening, grit removal, preaeration, primary settling; sludge digestion and drying.	San Francisco Bay	
33	Union Sanitary District, Newark Plant	Domestic and industrial	Screening, vacuum flotation, primary settling, trickling filter, secondary settling, oxidation pond; sludge digestion and drying.	San Francisco Bay	
34	Union Sanitary District, Irvington Plant	Domestic and industrial	Screening, primary settling; sludge digestion and drying.	Newark Slough to San Francisco Bay	
35	Malpitas Sanitary District	Domestic and industrial	Chlorination, combination, grit removal, primary settling, trickling filter, secondary settling; primary and secondary sludge digestion and sludge drying.	Mud Slough to San Francisco Bay	
36	City of San Jose	Domestic and industrial	Screening, grit removal, primary aeration, primary settling, primary trickling filter, secondary aeration, secondary settling, sludge digestion and drying.	Coyote Creek	
			Prechlorination, screening, grit removal, preaeration, primary settling; sludge digestion and drying.	Coyote Creek to San Francisco Bay	

TABLE A-2 (continued)
WASTE WATER TREATMENT FACILITIES JUNE 30, 1962

SAN FRANCISCO BAY REGION (NO. 2)

Number	Agency	Type of waste	Description of treatment	Discharge to	Remarks
37	City of Sunnyvale	Domestic	Screening, preseration, primary settling, chlorination; sludge digestion and drying.	Sunnyvale Slough to San Francisco Bay	
38	City of Mountain View	Domestic and industrial	Screening, primary settling, final settling; sludge digestion and drying.	Mountain View Slough to San Francisco Bay	
39	City of Palo Alto	Domestic and industrial	Screening, grit removal, preseration, vacuum flotation, primary settling, trickling filter, final settling; sludge digestion and drying.	San Francisco Bay	
40	Menlo Park Sanitary District	Domestic and industrial	Screening, grit removal, preseration, primary settling; sludge digestion and drying.	West Point Slough to San Francisco Bay	
41	Redwood City	Domestic and industrial	Screening, grit removal, preseration, primary settling, trickling filter, final settling, chlorination; sludge digestion and drying.	Redwood Creek to San Francisco Bay	
42	City of San Carlos-Belmont	Domestic and industrial	Screening, primary settling; sludge digestion and drying.	Steinberger Slough to San Francisco Bay	
43	City of San Mateo	Domestic and industrial	Screening, prechlorination, grit removal, primary settling; sludge digestion and drying.	San Francisco Bay	Small trickling filter for reclamation of water for use around treatment plant.
44	City of Burlingame	Domestic and industrial	Screening, primary settling, chlorination; sludge digestion and drying.	San Francisco Bay	
45	City of Millbrae	Domestic and industrial	Screening, primary settling, chlorination; sludge digestion and drying.	San Francisco Bay	
46	Cities of South San Francisco and San Bruno	Domestic and industrial	Screening, grit removal, preseration, primary settling; sludge digestion and drying.	San Francisco Bay	
47	City and County of San Francisco Southeast Plant	Domestic and industrial	Prechlorination, screening, grit removal, preseration, primary settling, chlorination; sludge digestion and drying.	Islets Creek to San Francisco Bay	
48	North Point Plant	Domestic and industrial	Prechlorination, screening, grit removal, preseration, primary settling, chlorination.	San Francisco Bay	Sludge pumped to Southeast Plant for treatment and disposal.
49	McQueen Plant	Domestic	Screening, grit removal, primary settling, aeration, (activated sludge), final settling, chlorination.	Golden Gate Park	Plant operated solely for water reclamation. Sludge pumped to Southeast Plant for treatment and disposal.
50	Richmond-Sunset Plant	Domestic	Screening, grit removal, preseration, primary settling, chlorination; sludge digestion and drying.	Pacific Ocean	
51	North San Mateo County Sanitary District	Domestic	Screening, primary settling, chlorination; sludge digestion and drying.	Pacific Ocean	
52	City of Laysmore	Domestic	Screening, grit removal, primary settling, trickling filter, secondary settling, oxidation ponds; sludge digestion and drying.	Land	

TABLE A-3
WASTE WATER TREATMENT FACILITIES JUNE 30, 1962
CENTRAL COASTAL REGION (NO. 3)

Number	Agency	Type of waste	Description of treatment	Discharge to	Remarks
1	City of Santa Cruz	Domestic and industrial	Screening, preseration, vacuum floation, chlorination; sludge digestion and ocean discharge.	Monterey Bay	
2	City of Watsonville	Domestic and industrial	Screening, preseration, settling; primary and secondary sludge digestion and drying.	Monterey Bay	
3	Fort Ord (Main Garrison)	Domestic	Screening, primary settling; sludge digestion and drying.	Monterey Bay	
4	Seaside County Sanitation District	Domestic	Screening, primary settling, chlorination; sludge digestion and drying.	Monterey Bay	Reclamation of small amount of water for use around sewage treatment plant.
5	City of Monterey	Domestic	Prechlorination, aeraening, primary settling, chlorination; sludge digestion and drying.	Monterey Bay	Small trickling filter for reclamation of water for use around sewage treatment plant.
6	City of Pacific Grove	Domestic	Screening, primary settling, chlorination; sludge digestion and drying.	Monterey Bay	
7	Carmel Sanitary District	Domestic	Screening, grit removal, prechlorination, primary settling, sand filtration, chlorination; sludge digestion and drying.	Irrigation and Pacific Ocean	
8	City of Salinas	Domestic and industrial	Prechlorination, screening, primary settling, two-stage trickling filter, chlorination; sludge digestion and drying.	Salinas River	
9	Alisal Sanitary District	Domestic	Screening, preseration, grit removal, primary settling, two-stage trickling filter, final settling, chlorination; sludge digestion and drying.	Salinas River	
10	Soledad State Prison	Domestic and industrial	Screening, primary settling, trickling filter, final settling; sludge digestion and drying.	Irrigation and Salinas River	
11	City of Paso Robles	Domestic	Screening, preseration, primary settling, trickling filter, final settling; sludge digestion and drying.	Salinas River	
12	Norro Bay - Cayucos Sanitary District	Domestic and industrial	Screening, primary settling, trickling filter, final settling, chlorination; sludge digestion and drying.	Pacific Ocean	
13	City of San Luis Obispo	Domestic and industrial	Screening, primary settling, two-stage trickling filter, chlorination; sludge digestion and drying.	Irrigation	
14	Vandenberg Air Force Base	Domestic and industrial	Screening, primary settling, two-stage trickling filter; sludge digestion and drying.	Pacific Ocean	
15	City of Santa Maria	Domestic and industrial	Screening, primary settling, trickling filter, final settling; sludge digestion and drying.	Land	
16	City of Lompoc	Domestic	Screening, primary settling, two-stage trickling filter, final settling, chlorination; sludge digestion and drying.	Santa Ynez River	Reclamation of small amount for use around sewage treatment plant.
17	Coleta Sanitary District	Domestic	Screening, aeration, trickling filter, oxidation pond, chlorination; sludge digestion and drying.	San Pedro Creek to Pacific Ocean	

TABLE A-3 (continued)
 WASTE WATER TREATMENT FACILITIES JUNE 30, 1962

CENTRAL COASTAL REGION (HO. 3)

Number	Agency	Type of waste	Description of treatment	Discharge to	Remarks
18	City of Santa Barbara	Domestic and industrial	Screening, aeration, primary settling, chlorination; sludge digestion and drying.	Pacific Ocean	
19	Carpinteria Sanitary District	Domestic	Screening, prechlorination, primary settling, two-stage trickling filter, final settling, chlorination; sludge digestion and drying.	Pacific Ocean	

TABLE A-4
WASTE WATER TREATMENT FACILITIES JUNE 30, 1962

LOS ANGELES REGION (NO. 4)

Number	Agency	Type of waste	Description of treatment	Discharge to	Remarks
1	City of Ojai	Domestic and industrial	Screening, primary settling, two-stage trickling filter, final settling, chlorination; sludge digestion and drying.	Land, Stewart Creek	Irrigation of golf course
2	City of Santa Paula	Domestic and industrial	Comminution, primary settling, trickling filter secondary settling, final settling, chlorination; sludge digestion and drying.	Irrigation and Santa Clara River	
3	City of Ventura Seaside Plant	Domestic and industrial	Comminution, primary settling; sludge digestion and drying.	Pacific Ocean	
4	City of Ventura Eastside Plant	Domestic	Comminution, grit removal, primary settling, trickling filter, final settling, chlorination; sludge thickening and digestion.	Pacific Ocean	
5	City of Oxnard	Domestic	Screening, primary settling, aeration, final settling, chlorination; sludge digestion and drying.	Pacific Ocean	
6	Port Hueneme Sanitary District	Domestic and industrial	Screening, primary settling; sludge digestion and drying.	Pacific Ocean	
7	U. S. Naval Construction Battalion Center Port Hueneme	Domestic	Screening, primary settling, chlorination; sludge digestion and drying.	Pacific Ocean	
8	Camarillo Sanitary District	Domestic	Comminution, prechlorination, primary settling, trickling filter, final settling, chlorination; sludge digestion and drying.	Land, irrigation and recharge	
9	City of Los Angeles Hyperion plant	Domestic and industrial	Screening, grit removal, preaeration, primary settling, aeration, (high-rate activated sludge), final settling, chlorination; sludge digestion and ocean disposal.	Santa Monica Bay	About 1 mgd final effluent used for irrigation and process water around plant
10	City of Los Angeles Terminal Island Plant	Domestic and industrial	Screening, primary settling; sludge digestion and drying.	Los Angeles Outer Harbor	
11	County Sanitation Districts of Los Angeles County Joint Disposal Plant	Domestic and industrial	Screening, primary settling; sludge digestion and ocean disposal	Pacific Ocean	
12	County Sanitation Districts of Los Angeles County Lucky Lager Plant	Industrial	Screening, primary settling, trickling filter, final settling, chlorination.	Land for ground water recharge	Plant operated solely for reclamation. Sludge returned to sewer for treatment at Joint Disposal Plant.
13	County Sanitation Districts of Los Angeles County Azusa Plant	Domestic	Screening, primary settling, trickling filter, final settling, chlorination.	Land for ground water recharge	Plant operated solely for reclamation. Sludge returned to sewer for treatment at Joint Disposal Plant.
14	County Sanitation Districts of Los Angeles County Pomona Plant	Domestic and industrial	Screening, primary settling, aeration (activated sludge), final settling, chlorination.	Land for irrigation and percolation	Sludge returned to sewer for treatment at Joint Disposal Plant.

TABLE A-5
WASTE WATER TREATMENT FACILITIES JUNE 30, 1962

CENTRAL VALLEY REGION (NO. 5)

Number	Agency	Type of waste	Description of treatment	Discharge to	Remarks
1	City of Redding	Domestic	Grinding; grit removal; preaeration; primary settling; chlorination; holding pond; sludge digestion and drying.	Sacramento River	
2	City of Red Bluff	Domestic and industrial	Grinding; grit removal; primary settling; sludge digestion and drying.	Sacramento River	
3	City of Chico	Domestic	Screening; shredding; primary settling; oxidation ponds; sludge digestion and drying.	Percolation and evaporation	
4	City of Oroville	Domestic	Screening; comminution; prechlorination, primary settling; sludge digestion (primary and secondary) and drying; percolation ponds.	Land	
5	City of Gridley	Domestic and industrial	Preaeration; primary settling; sludge digestion and drying, oxidation ponds	Land	
6	Yuba City	Domestic and industrial	Screening; comminution, preaeration; vacuum flotation, primary settling; chlorination; sludge digestion and drying; percolation ponds	Feather River - winter Land - summer	
7	City of Marysville	Domestic and industrial	Screening; grit removal; preaeration; primary settling; sludge digestion and drying (primary and secondary) percolation ponds	Land	
8	City of Grass Valley	Domestic	Screening, comminution; primary settling; trickling filter; final settling; chlorination; sludge digestion and drying	Wolf Creek	
9	City of Auburn	Domestic	Screening; primary and secondary settling, two-stage trickling filter; chlorination and post-aeration; sludge digestion and drying.	Auburn Ravine	
10	City of Roseville	Domestic	Screening, grit removal; prechlorination; primary settling; trickling filter; final settling; chlorination; sludge digestion and drying	Dry Creek	
11	City of Placerville	Domestic	Bar screen; comminutor; grit chamber; primary settling; bio-filtration; secondary settling; primary and secondary sludge digestion; chlorination of effluent	Weber Creek	
12	Sacramento County Sanitation District No. 6	Domestic	Prechlorination; grit removal; comminution, primary settling; two-stage trickling filter; sludge digestion and thickening and drying; post chlorination	Maggie Creek	
13	McClellan Air Force Base	Domestic	Screening; grit removal; comminution; primary settling; two-stage trickling filter; final settling; post-chlorination; sludge digestion and drying	Maggie Creek	
14	City of Woodland	Domestic and industrial	Screening; comminution; grit chamber; preaeration; sludge digestion and drying; raw sewage lagoons and percolation ponds	Land to irrigation or percolation	
15	City of Davis	Domestic and industrial	Screens; preaeration; primary settling, oxidation ponds; sludge digestion and drying	Willow Slough	
16	West Sacramento Sanitary District	Domestic and industrial	Screening, pre-chlorination; grit removal; comminution; primary settling; chlorination; sludge digestion and drying	Sacramento River	

TABLE A-5 (continued)
WASTE WATER TREATMENT FACILITIES **JUNE 30, 1962**

CENTRAL VALLEY REGION (NO. 5)

Number	Agency	Type of waste	Description of treatment	Discharge to	Remarks
17	City of Sacramento	Domestic and Industrial	Screening, pre-chlorination; grit removal, pre-aeration; primary settling, chlorination; primary and secondary sludge digestion; and vacuum drying	Sacramento River	
18	Parkway Estates	Domestic	Screens; comminutor; primary settling; spiro-vortex and standard bio-filters; sludge digestion; sludge beds; chlorination of effluent	Morrison Creek	
19	Sacramento County Sanitation District No. 3	Domestic	Pre-chlorination; comminution; primary and secondary settling; primary and secondary filtration; sludge drying bed chlorination	American River	
20	Rancho Cordova Sewer Maintenance District	Domestic	Barminutor; primary and secondary settling; bio-filters; primary and secondary sludge digestion; oxidation ponds; sludge drying beds.	American River	
21	Mather Air Force Base	Domestic and Industrial	Screening; comminution; primary settling; trickling filter; final settling chlorination; sludge digestion and drying	Morrison Creek	
22	City of Vacaville: Brown Street Plant	Domestic and Industrial	Bar screen; grit chamber; aeration; primary settling; aeration; secondary settling; sludge digestion; oxidation ponds.	Ulatis Creek	
23	City of Vacaville - Easterly Plant	Domestic	Pre-aeration; primary settling; post-aeration; oxidation ponds; sludge digestion; and drying	Alamo Creek	
24	Fibreboard Products, Antioch Division	Domestic and Industrial	None; transferred to Antioch Sewage Treatment Plant	San Joaquin River	
25	City of Antioch	Domestic	Screening; detritor; pre-aeration; primary settling, chlorination; sludge digestion and drying	San Joaquin River	
26	Crown-Zellerbach Corporation	Industrial	Prechlorination; chemical precipitation	San Joaquin River	
27	Fibreboard Products, San Joaquin Division	Industrial	Septic tank - primary settling and digestion	San Joaquin River	
28	E. I. DuPont Company	Industrial	Septic tank - primary settling; digestion; effluent to detention ponds	San Joaquin River	
29	City of Lodi	Domestic and Industrial	Screening; grit removal; comminution; primary settling, aeration; activated sludge; final settling; sludge digestion and drying; percolation ponds	White Slough, portion to irrigation	
30	North Utility District (Lincoln Village)	Domestic	Screening; pre-chlorination; primary settling; oxidation ponds, sludge digestion and drying	Fourteen Mile Slough	
31	City of Stockton North Plant	Domestic	Screening; grit removal; primary settling	San Joaquin River	
32	City of Stockton South Plant	Domestic and Industrial	Screening; grit removal; comminution; primary settling; trickling filter; final settling; sludge digestion and drying	San Joaquin River	
33	City of Tracy Domestic	Domestic	Screening; pre-chlorination; comminution; Imhoff tank; aeration; secondary settling; trickling filter; sludge digestion and drying	Sugar Cut Slough	

TABLE A-5 (continued)
WASTE WATER TREATMENT FACILITIES JUNE 30, 1962
 SOUTHWESTERN REGION (DC, 5)

Number	Agency	Type of waste	Description of treatment	Discharge to	Remarks
33 (continued)	City of Tracy	Industrial	Settling (Primary); oxidation ponds; sludge digestion and drying.	Sugar Cut Slough	
34	City of Manteca	Domestic and industrial	Screening, primary settling, trickling filter, secondary settling, oxidation ponds; sludge digestion and drying.	Land for irrigation or percolation	
35	City of Modesto	Domestic and industrial	Screening, grit removal, primary settling, vacuum flotation, two-stage trickling filters, secondary settling, aeration, oxidation ponds, chlorination; sludge digestion and drying.	Tuolumne River	
36	City of Turlock	Domestic	Screening, primary settling, two-stage trickling filters, final settling, chlorination; sludge digestion and drying.	Land for irrigation	
37	Castle Air Force Base	Industrial	Screening, prechlorination, preaeration, vacuum flotation, aeration, final settling.	Turlock Irrigation District drain	Sludge treated with that from domestic waste.
38	City of Atwater	Domestic	Grit removal, primary settling, trickling filter, final settling, chlorination; sludge digestion and drying.	Canal Creek	
39	City of Merced	Domestic and industrial	Screening, primary settling; trickling filter, secondary settling, chlorination, oxidation ponds; sludge digestion and drying.	Land for irrigation	
40	City of Madera	Domestic and industrial	Screening, grit removal, Imhoff tank, aeration, oxidation ponds; sludge drying.	Land for irrigation and percolation	
41	City of Clovis	Domestic and industrial	Screening, grit removal, primary settling, trickling filter, final settling; sludge digestion and drying.	Land for irrigation and percolation	
42	City of Fresno	Domestic and industrial	Screening, primary settling, chlorination; sludge digestion and drying.	Land for percolation	
43	City of Sanger	Domestic	Screening, grit removal, primary settling, chlorination; sludge digestion and drying.	Land for irrigation and percolation	
44	City of Lemoore	Domestic and industrial	Screening, grit removal, primary settling; sludge digestion and drying.	Land for irrigation and percolation	
45	City of Hanford	Domestic and industrial	Screening, primary settling, oxidation ponds; sludge digestion and drying.	Land for irrigation	
46	City of Visalia	Domestic and industrial	Aeration screening, primary settling, trickling filter, oxidation ponds; sludge digestion and drying.	Land for irrigation and percolation	
			Preaeration, primary settling, trickling filter; sludge digestion and drying.	Land for irrigation	

TABLE A-5 (continued)
WASTE WATER TREATMENT FACILITIES JUNE 30, 1962
 CENTRAL VALLEY REGION (NO. 5)

Number	Agency	Type of waste	Description of treatment	Discharge to	Remarks
47	City of Corcoran	Domestic and industrial	Screening, primary settling; sludge digestion and drying.	Land for irrigation	
48	City of Tulare Domestic Industrial	Domestic Industrial	Screening, primary settling, trickling filter, oxidation pond; sludge digestion and drying. Lagoons.	Land for irrigation Land	
49	City of Lindsay	Domestic and industrial	Grit removal, primary settling, sludge digestion and drying.	Land for irrigation	
50	City of Porterville	Domestic and industrial	Screening, settling, oxidation ponds.	Land for irrigation and percolation	
51	City of Delano	Domestic	Primary settling, oxidation ponds; sludge digestion and drying.	Land for irrigation and percolation	
52	North-of-River Sanitary District	Domestic	Screening, primary settling, trickling filter, final settling, oxidation ponds; sludge digestion and drying.	Land for irrigation	
53	City of Bakersfield Plant No. 1	Domestic and industrial	Screening, grit removal, aeration-primary settling; sludge digestion and drying.	Land for irrigation	
54	City of Bakersfield Plant No. 2	Domestic and industrial	Screening, primary settling; sludge digestion and drying.	Land for irrigation	
55	Mt. Vernon County Sanitation District	Domestic and industrial	Screening, primary settling, trickling filter, final settling, sludge digestion and drying.	Land for irrigation	
56	City of Taft	Domestic	Screening, primary settling, trickling filter, chlorination; sludge digestion and drying.	Land for irrigation	

TABLE A-6
WASTE WATER TREATMENT FACILITIES JUNE 30, 1962
LAHONTAN REGION (NO. 6)

Number	Agency	Type of waste	Description of treatment	Discharge to	Remarks
1	Sussexville Consolidated Sanitary District	Domestic	Grinding, grit removal, primary settling, oxidation ponds; sludge digestion and drying.	Irrigation in summer Susan River in winter	
	South Tahoe Public Utilities District	Domestic	Barnumton; detritor; pre-aeration, primary clarification; activated sludge; secondary settling; sludge digestion; drying; and holding ponds.	Land for percolation or evaporation.	
3	City of Bishop	Domestic	Screening, primary settling; sludge digestion and drying.	Land for irrigation.	
4	U. S. Naval Ordnance Test Station China Lake	Domestic	Screening, prechlorination, grit removal, primary settling, aeration, secondary settling, oxidation ponds, chlorination; sludge digestion and drying.	Land for irrigation and percolation or evaporation.	
5	Edwards Air Force Base	Domestic	Prechlorination, comminution, primary settling, oxidation pond; sludge digestion and drying.	Land	
6	County Sanitation Districts of Los Angeles County Lancaster Plant	Domestic	Comminution, primary settling, oxidation ponds; sludge digestion and drying.	Land	
7	County Sanitation Districts of Los Angeles County Palmdale Plant	Domestic	Screening, primary settling, oxidation ponds; sludge digestion and drying.	Land for irrigation.	
8	Victorville Sanitary District	Domestic	Raw sewage lagoons.	Land for ground water recharge.	
9	City of Barstow	Domestic	Screening, primary settling, trickling filter, oxidation pond; sludge digestion and drying.	Land for irrigation and percolation.	
10	U. S. Marine Corps Supply Center Nebo Plant	Domestic	Imhoff tank, oxidation ponds.	Land for irrigation and percolation or evaporation.	

TABLE A-7
WASTE WATER TREATMENT FACILITIES JUNE 30, 1962

COLORADO RIVER BASIN REGION (NO. 7)

Number	Agency	Type of waste	Description of treatment	Discharge to	Remarks
1	City of Banning	Domestic	Screening, primary settling, oxidation pond; sludge digestion and drying.	Land for irrigation and percolation or evaporation.	
2	Coachella Sanitary District	Domestic and industrial	Screening, primary settling, oxidation pond; sludge digestion and drying.	Land for irrigation.	
3	Indio Sanitary District	Domestic	Screening, primary settling, trickling filter, oxidation pond; sludge digestion and drying.	Land for irrigation and Whitewater River.	
4	City of Palm Springs	Domestic	Screening, grit removal, primary settling, trickling filter, final settling, oxidation pond, chlorination; sludge digestion and drying.	Tanquitz Creek.	
5	U. S. Marine Corps Training Center Twentynine Palms	Domestic	Screening, prechlorination, primary settling, oxidation pond; sludge digestion and drying.	Land for irrigation and percolation or evaporation.	
6	City of Brawley	Domestic	Screening, grit removal, primary settling; sludge digestion and drying.	New River	Plant started operation in April 1962.
7	City of El Centro	Domestic	Comminution, primary settling, oxidation pond; sludge digestion and drying.	Alamo River	
8	City of Holtville	Domestic	Primary settling, trickling filter, chlorination; sludge digestion and drying.	Alamo River	
9	City of Needles	Domestic	Screening, primary settling, oxidation pond; sludge digestion and drying.	Colorado River	
10	City of Blythe	Domestic	Screening, primary settling, oxidation pond; sludge digestion.	Land	

TABLE A-8
WASTE WATER TREATMENT FACILITIES JUNE 30, 1962

SANTA ANA REGION (NO. 8)

Number	Agency	Type of waste	Description of treatment	Discharge to	Remarks
1	City of Chino Plant No. 1.	Domestic and industrial	Comminution, primary settling, trickling filter; sludge digestion and drying.	Land for irrigation	
2	City of Chino Plant No. 2	Domestic	Comminution, primary settling, oxidation pond, chlorination; sludge digestion and drying.	Land	
3	City of Colton	Domestic	Screening, primary settling, aeration (activated sludge), final settling, chlorination; sludge digestion and drying.	Land for irrigation and percolation	
4	City of Corona	Domestic	Screening, primary settling, trickling filter, final settling, oxidation pond; sludge digestion and drying	Land for irrigation and percolation	
5	U. S. Marine Corps. Air Station El Toro	Domestic	Comminution, primary settling, trickling filter, final settling, chlorination; sludge digestion and drying.	Land for irrigation	
6	City of Fontana	Domestic	Screening, preservation, primary settling, chlorination, oxidation pond; sludge digestion and drying.	Land for percolation and evaporation	
7	Kaiser Steel Corporation Fontana	Domestic	Comminution, primary settling, trickling filter, final settling, chlorination; sludge digestion and drying.	Industrial use	
8	March Air Force Base Main Plant	Domestic and industrial	Screening, primary settling, trickling filter, final settling, chlorination; sludge digestion and drying.	Land for irrigation	
9	March Air Force Base West Plant	Domestic	Comminution, grit removal, primary settling, trickling filter, final settling, chlorination; sludge digestion and drying.	Land for irrigation	
10	County Sanitation Districts of Orange County Plant No. 1.	Domestic and industrial	Screening, grit removal, primary settling, sludge digestion and drying.	Pacific Ocean	Limited quantities sold to Talbert Water District for irrigation.
11	County Sanitation Districts of Orange County Plant No. 2	Domestic and industrial	Screening, grit removal, primary settling, trickling filter, chlorination; sludge digestion and drying.	Pacific Ocean	
12	Cities of Ontario - Upland	Domestic and industrial	Screening, preservation, primary settling, trickling filter, chlorination, oxidation pond; sludge digestion and drying.	Land for irrigation and percolation	
13	City of Redlands	Domestic and industrial	Screening, primary settling, sewage lagoon; sludge digestion and drying.	Land	
14	City of Rialto	Domestic	Screening, primary settling, aeration (activated sludge), final settling, chlorination; sludge digestion and drying.	Land	
15	City of Riverside Plant No. 1	Domestic and industrial	Screening, grit removal, primary settling, trickling filter, final settling, chlorination, oxidation pond; sludge digestion and drying.	Land for irrigation and percolation	
16	City of Riverside Plant No. 2	Domestic and industrial	Screening, grit removal, primary settling, trickling filter, final settling; sludge digestion and drying.	Land for irrigation	Formerly Arlington Utility Co.

TABLE A-3 (continued)
WASTE WATER TREATMENT FACILITIES JUNE 30, 1962

SANTA ANA REGION (NO. 8)

Number	Agency	Type of waste	Description of treatment	Discharge to	Remarks
17	City of San Bernardino Plant No. 1.	Domestic and industrial	Screening, preseration, primary settling, trickling filter, final settling, chlorination, sludge digestion and drying.	Warm Creek	
18	City of San Bernardino Plant No. 2	Domestic and industrial	Screening, primary settling, aeration (activated sludge), final settling; sludge digestion and drying.	Land and Santa Ana River	
19	City of Seal Beach	Domestic	Screening, preseration, primary settling, trickling filter, final settling, chlorination; sludge digestion and drying.	San Gabriel River	
20	Talbert Water District	Domestic and industrial	Chlorination	Irrigation	Receives waste water from County Sanification Districts of Orange County, Plant No. 1.

TABLE A-9
WASTE WATER TREATMENT FACILITIES JUNE 30, 1962

SAN DIEGO REGION (HC)

Number	Agency	Type of waste	Description of treatment	Discharge to	Remarks
1	City of Laguna Beach	Domestic	Screening, prechlorination, primary settling, chlorination; sludge digestion and drying.	Pacific Ocean	
2	City of San Clemente	Domestic	Primary settling, aeration (activated sludge), secondary clarifier, trickling filter, final settling, chlorination; sludge digestion and drying.	Pacific Ocean; portion to land for irrigation	
3	Camp Joseph H. Pendleton Plant No. 1	Domestic	Screening, primary settling, two-stage trickling filter, oxidation pond; sludge digestion and drying.	Land for recreation and recreation	
4	Camp Joseph H. Pendleton Plant No. 2	Domestic	Screening, primary settling, trickling filter, oxidation pond; sludge digestion and drying.	Land for irrigation	
5	Camp Joseph H. Pendleton Plant No. 3	Domestic	Screening, primary settling, two-stage trickling filter, oxidation pond; sludge digestion and drying.	Land	
6	City of Oceanside	Domestic	Screening, prechlorination, primary settling, oxidation pond; sludge digestion and drying.	Land for irrigation and percolation	
7	City of Carlsbad	Domestic	Prechlorination, primary settling, trickling filter, final settling; sludge digestion and drying.	Bird Sanctuary	
8	Vista Sanitation District	Domestic	Section 1 - screening, primary settling, trickling filter, secondary settling, oxidation pond.	Land	
9	City of Escondido Plant No. 1	Domestic	Section 2 - screening, primary settling, oxidation pond; sludge digestion and drying.	Escondido Creek and irrigation	
10	City of Escondido Plant No. 2	Domestic	Screening, primary settling, trickling filter, final settling, chlorination; sludge digestion and drying.	Escondido Creek	
11	Santee County Water District	Domestic	Comminution, primary settling, aeration (activated sludge), final settling; sludge digestion and drying.	Escondido Creek	
12	City of El Cajon	Domestic and industrial	Comminution, primary settling, aeration (activated sludge), final settling, chlorination, oxidation pond; sludge digestion and drying.	Recreation lake; overflow to San Diego River	
13	City of Coronado "E" Street	Domestic	Screening, primary settling, aeration, final settling, chlorination; sludge digestion and drying.	Land and Sweetwater River	
14	City of Coronado "K" Street	Domestic	Chlorination	San Diego Bay	
15	City of San Diego	Domestic and industrial	Chlorination	San Diego Bay	
16	Spring Valley Sanitation District	Domestic	Screening, preaeration, primary settling, chlorination; sludge digestion.	San Diego Bay	
17	City of Chula Vista "G" Street Plant	Domestic and industrial	Screening, primary settling, two-stage trickling filter, chlorination; sludge digestion and drying.	Land and Sweetwater River	
18	City of Chula Vista "J" Street Plant	Domestic and industrial	Screening, primary settling; sludge digestion.	San Diego Bay	
			Screening, preaeration, primary settling; sludge digestion.	San Diego Bay	

TABLE A-9 (continued)
WASTE WATER TREATMENT FACILITIES JUNE 30, 1962
 SAN DIEGO REGION (NO. 9)

Number	Agency	Type of waste	Description of treatment	Discharge to	Remarks
19	Palm City Sanitation District	Domestic	Primary settling, oxidation ponds; sludge digestion and drying.	San Diego Bay	
20	City of Imperial Beach	Domestic	Screening, primary settling, trickling filter final settling, oxidation pond; sludge digestion and drying.	Pacific Ocean at Mouth of Tijuana River	
21	International Boundary and Water Commission	Domestic and industrial	Chlorination.	Pacific Ocean at mouth of Tijuana River	

APPENDIX B
QUANTITIES OF WASTE WATERS

APPENDIX B

QUANTITIES OF WASTE WATERS

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QUANTITIES OF WASTE WATER
NORTH COASTAL REGION (NO. 1)

Year	City of Arcata (1)	City of Eureka (Murray St. Plant) (2)	City of Willits (3)	City of Ukiah (4)	Mendocino State Hospital (5)	City of Santa Rosa (6)
1955-56	Average rate of flow in Millions of Gallons per day 0.6 ^a / 670 ^a	2.0 ^a / 2240 ^a	0.5 ^a / 560 ^a	0.7 ^a / 780 ^a		4.7 5260
1956-57	Average rate of flow in Millions of Gallons per day 0.6 ^a / 670 ^a	2.0 ^a / 2240 ^a	0.5 ^a / 560 ^a	0.7 ^a / 780 ^a		3.7 4170
1957-58	Average rate of flow in Millions of Gallons per day 0.7 ^a / 780 ^a	2.6 ^a / 2890 ^a	0.7 ^a / 800 ^a	1.2 ^a / 1320 ^a		6.0 6750
1958-59	Average rate of flow in Millions of Gallons per day 0.8 ^a / 950 ^a	1.5 1690	0.5 ^a / 560 ^a	1.3 ^a / 1470 ^a	0.8 911	4.0 4450
1959-60	Average rate of flow in Millions of Gallons per day 0.7 790	1.8 2060	0.7 770	1.9 2105	0.5 601	4.9 5526
1960-61	Average rate of flow in Millions of Gallons per day 1.3 1420	2.6 2870	0.9 1060	2.2 2416	0.6 677	5.1 5674
1961-62	Average rate of flow in Millions of Gallons per day 1.2 1330	2.1 2380	0.9 1030	1.7 1880	0.6 631	5.3 5894

Year						
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year					
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year					
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year					
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year					
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year					
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year					
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year					

^a/ Estimated.

QUANTITIES OF WASTE WATER

SAN FRANCISCO BAY REGION (NO. 2)

Year	(1) Sebasti- Marin City Sanitary District	(2) City of Mill Valley	(3) Marin County Sanitary District Nos. 1 and 2	(4) San Rafael Sanitation District	(5) Laa Gallinas Valley Sanitary District	(6) Marin County Sanitary District No. 6	(7) City of Petaluma
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.4 ^a 1,570 ^a	0.9 ^a 1,010 ^a	3.0 3,360	2.3 ^a 2,580 ^a			0.5 1,110
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.4 ^a 1,570 ^a	0.9 ^a 1,010 ^a	3.4 ^a 3,810 ^a	2.3 ^a 2,580 ^a			0.3 700
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.2 ^a 1,340 ^a	1.5 1,680	4.7 5,260	2.6 2,910			0.8 900
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.0 ^a 1,120 ^a	1.3 1,460	3.9 4,370	1.9 2,130		1.7 480	1.0 1,170
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.9 ^a 1,010 ^a	1.1 1,230	3.2 3,580	2.1 2,350	0.5 560	0.8 900	0.8 900
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.1 ^a 1,230 ^a	1.2 1,340	3.6 4,030	2.2 2,460	0.5 560		0.3 700
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.3 ^a 1,460 ^a	1.5 1,680	3.8 ^a 4,260 ^a	2.3 ^a 2,580 ^a	0.7 780	1.4 1,570	1.0 1,200

Year	(8) Marin County Sanitation District	(9) Sonoma Valley Sanitary District	(10) Travis Air Force Base	(11) Cities of Fairfield and Suisun	(12) Mare Island Naval Shipyard	(13) Vallejo Flood Control and Sanitation District	City of Benicia
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 2.3 ^a 2,580 ^a	1.2 ^a 1,460	0.5 560	1.2 ^a 1,310 ^a		6.0 ^a 6,720 ^a	0.7 ^a 780 ^a
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 2.4 ^a 2,690 ^a	1.1 ^a 1,340		1.4 ^a 1,570 ^a		6.0 ^a 6,720 ^a	0.7 ^a 780 ^a
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.1 ^a 1,590	1.5 1,680		1.5 ^a 1,680 ^a		6.0 ^a 6,720 ^a	0.7 ^a 780 ^a
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 3.2 3,580	1.1 1,340		1.5 ^a 1,680 ^a		6.0 ^a 6,720 ^a	0.7 ^a 780 ^a
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 3.2 3,580	1.7 ^a 1,900 ^a	0.5 560	1.7 ^a 1,900 ^a	1.0 1,120	4.0 4,480	0.3 ^a 340 ^a
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 4.0 4,480	1.5 1,680	0.4 450	1.8 2,020	1.0 1,120	5.3 5,910	0.3 ^a 340 ^a
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.3 1,480	1.5 1,680	0.9 1,010	2.4 2,690	1.1 1,230	5.9 6,610	0.3 ^a 340 ^a

a. Estimated

Year	Exhyl Corporation (15)	Dow Chemical Company (16)	U.S. Steel Outfall No. 2 (17)	Outfall No. 3	Johns-Manville Corporation (18)	City of Pittsburg (19)
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	3.0 ^a 3,360 ^a	10.0 ^a 11,200 ^a	9.0 ^a 10,100 ^a	1.1 ^a 1,570 ^a	1.0 ^a 1,120 ^a
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	3.0 3,360 ^a	10.0 ^a 11,200 ^a	9.0 ^a 10,100 ^a	1.1 ^a 1,570 ^a	1.0 ^a 1,120 ^a
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	26.2 29,390	9.5 ^a 10,650 ^a	8.2 ^a 9,180	1.1 ^a 1,570 ^a	1.1 1,230
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	23.7 26,530	11.1 ^a 12,410 ^a	9.6 ^a 10,760 ^a	1.1 ^a 1,570 ^a	1.2 1,230
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	25.5 28,690	9.2 10,290	6.8 7,690	1.0 ^a 1,120	1.2 1,040
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	24.5 27,420	13.0 14,520	8.4 9,360	1.0 ^a 1,120	1.1 1,230
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	25.7 28,830	13.4 15,070	6.3 7,090	1.8 ^a 2,020 ^a	1.4 1,570

Year	Shell Chemical Company (20)	City of Concord (21)	Central Contra Costa Sanitary District (22)	City of Martinez (23)	C and H Sugar Refinery (24)	American Smelting and Refining Company (25)	San Pablo Sanitary District (26)
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	11.4 16,130	4.2 ^a 4,700 ^a	0.7 780	0.5 ^a 560 ^a	1.0 ^a 1,120 ^a	2.8 3,110
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	11.4 16,130	4.6 ^a 5,150 ^a	0.6 670	0.5 ^a 560 ^a	1.0 ^a 1,120 ^a	2.4 2,690
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	11.4 16,130	6.8 ^a 7,620 ^a	0.8 900	0.5 ^a 560 ^a	1.3 ^a 1,460 ^a	3.6 4,030
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	11.4 16,130	6.1 ^a 7,170 ^a	0.8 900	0.6 ^a 670 ^a	1.3 ^a 1,460 ^a	3.2 3,580
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	11.4 16,130	8.0 ^a 8,960 ^a	0.8 ^a 900 ^a	0.5 ^a 560 ^a	1.2 ^a 1,310 ^a	3.1 ^a 3,470 ^a
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	11.4 16,130	7.1 7,950	0.7 780	0.5 ^a 560 ^a	1.2 ^a 1,310 ^a	2.8 3,110 ^a
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	11.4 16,130	8.3 9,300	0.7 780	0.5 ^a 560 ^a	1.2 ^a 1,310 ^a	1.8 5,380

^a Estimated

TABLE B-2 (continued)

QUANTITIES OF WASTE WATER

SAN FRANCISCO BAY REGION (NO. 2)

Year	City of Richmond (27)	Stage Sanitary District (28)	East Bay Municipal Utility District (29)	City of San Leandro (30)	Oro Loma Sanitary District (31)	City of Hayward (32)	Union Sanitary District Newark Plant (33)
1955-56	Average rate of flow in Millions of Gallons per day	2.4	61.7	6.0 ^a	7.4 ^a	3.9	0.9
	Total Acre Feet per year	2,690	72,460	6,720 ^a	8,290 ^a	4,370	1,010
1956-57	Average rate of flow in Millions of Gallons per day	2.3 ^a	58.3	6.0 ^a	7.7	4.3	1.0
	Total Acre Feet per year	2,580	65,300	6,720 ^a	8,620	4,820	1,120
1957-58	Average rate of flow in Millions of Gallons per day	2.9 ^a	71.8	Domestic 3.0 Industrial 3.4	10.6	5.2	1.4
	Total Acre Feet per year	3,250 ^a	80,420	3,360	11,870	5,820	1,570
1958-59	Average rate of flow in Millions of Gallons per day	2.4	60.4	3.0	9.0	5.6	2.1
	Total Acre Feet per year	2,690	67,650	3,360	10,080	6,270	2,350
1959-60	Average rate of flow in Millions of Gallons per day	2.6	64.5	3.2	10.2	6.6	2.0
	Total Acre Feet per year	2,910	72,240	3,580	11,420	7,390	2,240
1960-61	Average rate of flow in Millions of Gallons per day	2.8	64.6	3.6	9.7	6.7	1.9
	Total Acre Feet per year	3,110	72,350	4,030	10,860	7,500	2,130
1961-62	Average rate of flow in Millions of Gallons per day	3.3	70.0	3.0	10.3	6.5	2.2
	Total Acre Feet per year	3,700	78,400	3,360	11,510	7,280	2,460
Year	Union Sanitary District Irvington Plant (34)	Malinitas Sanitary District (35)	City of San Jose (36)	City of Sunnyvale (37)	City of Mt. View (38)	City of Palo Alto (39)	Menlo Park Sanitary District (40)
1955-56	Average rate of flow in Millions of Gallons per day	19.7 ^a	22,060 ^a	5.5 ^a	1.3	4.9	2.9
	Total Acre Feet per year	20.3 ^a	22,710 ^a	6,160 ^a	1,160	5,490	3,250
1956-57	Average rate of flow in Millions of Gallons per day	26.7 ^a	29,900	5.5 ^a	1.4 ^a	5.0	3.0
	Total Acre Feet per year	0.9	35.6	6,160 ^a	1,570 ^a	5,600	3,360
1957-58	Average rate of flow in Millions of Gallons per day	0.9	39,870	7.7	2.0	6.9	3.4
	Total Acre Feet per year	1,010	43,230	8,620	2,240	7,730	3,810
1958-59	Average rate of flow in Millions of Gallons per day	0.9	38.6	8.1	1.9	6.7	3.4
	Total Acre Feet per year	1,010	43,230	9,070	2,130	7,500	3,810
1959-60	Average rate of flow in Millions of Gallons per day	0.9	40.8	6.7	1.9	6.1	3.7
	Total Acre Feet per year	1,010	45,700	7,500	2,130	6,830	4,110
1960-61	Average rate of flow in Millions of Gallons per day	2.2	41.6	9.1	2.1	7.5	3.8
	Total Acre Feet per year	2,460	46,590	10,490	2,350	8,400	4,260
1961-62	Average rate of flow in Millions of Gallons per day	2.4	46.590	8.9	2.6	8.0	4.0
	Total Acre Feet per year	2,460	46,590	9,970	2,910	8,960	4,480

a Estimated

TABLE B-2 (continued)
 QUANTITIES OF WASTE WATER
 SAN FRANCISCO BAY REGION (NO. 2)

Year	City of Redwood City (41)	Cities of San Carlos-Mount Diablo (42)	City of San Mateo (43)	City of Burlingame (44)	City of Millbrae (45)	Cities of South San Francisco and San Bruno (46)	City and County of San Francisco Southeast Plant (47)
1955-56	Average rate of flow in Millions of Gallons per day	2.2	5.1	2.0 ^a	0.6	4.5	16.5 ^a
	Total Acre Feet per year	6,720 ^a	5,710	2,210 ^a	670	5,040	18,480 ^a
1956-57	Average rate of flow in Millions of Gallons per day	6.0 ^a	1.0	5.5 ^a	0.7	5.0	16.9 ^a
	Total Acre Feet per year	6,720 ^a	2,130	6,160 ^a	780	5,600	18,930 ^a
1957-58	Average rate of flow in Millions of Gallons per day	6.6	2.6	8.1	0.8	6.7	2.6
	Total Acre Feet per year	7,390	2,910	9,070	90	7,500	24,130
1958-59	Average rate of flow in Millions of Gallons per day	6.1	2.5	6.0	0.9	5.3	17.4
	Total Acre Feet per year	6,830	2,800	6,720	1,010	5,940	19,190
1959-60	Average rate of flow in Millions of Gallons per day	5.3	2.5 ^a	6.2	1.0 ^a	5.2	16.4
	Total Acre Feet per year	5,910	2,800 ^a	6,940	1,120 ^a	5,820	18,370
1960-61	Average rate of flow in Millions of Gallons per day	4.5	2.1	6.3	1.1	5.7	16.4
	Total Acre Feet per year	5,040	2,350	7,060	1,230	6,380	18,370
1961-62	Average rate of flow in Millions of Gallons per day	4.7	3.0	5.9	1.3 ^a	6.6	17.5
	Total Acre Feet per year	5,260	3,360	6,610	1,460 ^a	7,390	19,600
Year	City and County of San Francisco				City of Livermore (52)	North San Mateo County Sanitation District (51)	City of Livermore (52)
	North Point Plant (48)	McQueen Plant (Golden Gate Park) (49)	Richmond-Sunset Plant (50)	North San Mateo County Sanitation District (51)			
1955-56	Average rate of flow in Millions of Gallons per day	42.1	0.7 ^a	13.2	1.5	1.1 ^a	
	Total Acre Feet per year	47,150	780 ^a	14,780	1,680	1,230 ^a	
1956-57	Average rate of flow in Millions of Gallons per day	43.3	0.7 ^a	13.9	1.5	1.1 ^a	
	Total Acre Feet per year	48,500	780 ^a	15,570	1,680	1,230 ^a	
1957-58	Average rate of flow in Millions of Gallons per day	46.3	0.7 ^a	13.6	1.7	1.0 ^a	
	Total Acre Feet per year	51,860	780 ^a	15,230	1,900	1,120 ^a	
1958-59	Average rate of flow in Millions of Gallons per day	42.8	0.7 ^a	14.9	1.3	1.0 ^a	
	Total Acre Feet per year	47,940	780 ^a	16,690	1,660	1,120 ^a	
1959-60	Average rate of flow in Millions of Gallons per day	46.9	0.6 ^a	14.5	1.6	1.3	
	Total Acre Feet per year	52,530	670 ^a	16,210	1,790	1,460	
1960-61	Average rate of flow in Millions of Gallons per day	46.8	0.6 ^a	15.9	1.9	1.7	
	Total Acre Feet per year	52,420	670 ^a	17,830	2,130	1,900	
1961-62	Average rate of flow in Millions of Gallons per day	47.5	0.6 ^a	16.4	2.1	1.6	
	Total Acre Feet per year	53,200	670 ^a	18,370	2,350	1,790	

TABLE B-3

QUANTITIES OF WASTE WATER
CENTRAL COASTAL REGION (NO. 3)

Year	City of Santa Cruz (1)	City of Watsonville (2)	Fort Ord (3)	Seaside County Sanitation District (4)	City of Monterey (5)	City of Pacific Grove (6)	Carmel Sanitary District (7)
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 3.8 4,260	2.5 2,800		0.7 780	1.7 1,900	1.1 1,230	1.0 ^a 1,120 ^a
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 3.5 3,920	2.7 3,020		0.9 1,010	1.7 1,900	1.0 1,120	1.0 ^a 1,120 ^a
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 3.4 3,810	2.4 2,690	1.4 1,570	0.9 1,010	1.8 2,020	1.5 1,680	1.1 1,570
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 3.7 4,110	2.5 2,800	1.5 1,680	1.0 1,130	1.7 1,900	1.3 1,460	1.1 1,570
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 3.1 3,470	1.8 ^a 2,020 ^a	1.7 1,900	1.4 1,570	2.1 2,350	1.2 1,340	1.5 1,680
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 2.6 2,910	2.0 ^a 2,210 ^a	1.9 2,130	1.5 1,680	2.3 2,580	1.2 1,340	1.5 1,680
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 3.4 3,810	2.5 2,800	1.8 2,020	1.8 2,020	2.3 2,580	1.3 1,460	1.6 ^a 1,790 ^a

Year	City of Salinas (8)	Alisal Sanitary District (9)	Soledad State Prison (10)	City of Paso Robles (11)	Morro Bay - Cayucos Sanitary District (12)	City of San Luis Obispo (13)	Vendenberg Air Force Base (14)
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 2.4 ^a 2,690 ^a	0.9 1,010		0.9 1,000		1.5 1,670	
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 2.6 ^a 2,910 ^a	1.0 1,120		0.9 ^a 970 ^a		1.3 1,510	
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 5.6 6,270	0.6 670		0.9 1,050	0.6 ^a 650 ^a	1.7 1,950	
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 5.2 5,820	0.8 900		0.9 1,000	0.6 ^a 650 ^a	1.4 1,540	0.8 940
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 4.1 4,590	1.0 1,120	0.6 ^a 670 ^a	1.0 1,160	0.6 ^a 670 ^a	1.6 1,750	1.3 1,430
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 3.8 4,260	1.0 1,120	0.6 ^a 670 ^a	0.8 920	0.6 ^a 670 ^a	1.6 1,790	1.5 1,680
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 3.9 4,370	0.7 ^a 780 ^a	0.7 780	0.8 850	0.6 670	2.6 2,880	1.4 1,540

^a Estimated

TABLE B-3 (continued)
 QUANTITIES OF WASTE WATER
 CENTRAL COASTAL REGION (NO. 3)

Year	City of Santa Maria (15)	City of Lompoc (16)	Goleta Sanitary District (17)	City of Santa Barbara (18)	Carpinteria Sanitary District (19)
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	1.2 1,290	0.2 220	4.5 5,000	0.3 300
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	1.4 1,620	0.2 250	4.7 5,210	0.3 ^a 300 ^a
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	2.1 2,320	0.4 420	5.0 5,550	0.4 420
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	2.4 2,690	0.5 530	4.7 5,240	0.3 330
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	2.9 3,280	0.8 950	5.0 5,270	0.4 450
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	3.2 3,540	1.0 1,130	5.0 5,630	0.5 500
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	3.5 ^a 4,000 ^a	1.1 1,460	5.9 6,570	0.7 730

1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year				
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year				
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year				
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year				
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year				
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year				
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year				

^a Estimate

TABLE B-4
 QUANTITIES OF WASTE WATER
 LOS ANGELES REGION (NO. 4)

Year	City of Ojai (1)	City of Santa Paula (2)	City of Ventura Seaside Plant (3)	City of Ventura Eastside Plant (4)	City of Oxnard (5)	Port Huemac Sanitary District (6)	U. S. Naval Construction Battalion Center, Fort Huemac (7)
1955-56	Average rate of flow in Millions of Gallons per day	0.6 ^a	2.3		3.3	0.7 ^a	0.6 ^a
	Total Acre Feet per year	620 ^a	2,580		3,680	780 ^a	630 ^a
1956-57	Average rate of flow in Millions of Gallons per day	0.6 ^a	2.3		3.6	0.7 ^a	0.8 ^a
	Total Acre Feet per year	620 ^a	2,580		4,040	780 ^a	900 ^a
1957-58	Average rate of flow in Millions of Gallons per day	0.6 ^a	3.1		3.6	0.7 ^a	0.6 ^a
	Total Acre Feet per year	620 ^a	3,490		4,010	840 ^a	720 ^a
1958-59	Average rate of flow in Millions of Gallons per day	0.6	3.6		3.0	1.2 ^a	0.7 ^a
	Total Acre Feet per year	620	4,000		3,380	1,380 ^a	760 ^a
1959-60	Average rate of flow in Millions of Gallons per day	0.6	2.4		3.3	1.3 ^a	0.6 ^a
	Total Acre Feet per year	620	2,680		3,740	1,510 ^a	640 ^a
1960-61	Average rate of flow in Millions of Gallons per day	0.7	1.1	1.1	3.8	1.0 ^a	0.6 ^a
	Total Acre Feet per year	770	1,250 ^a	1,200	4,280	1,110 ^a	695 ^a
1961-62	Average rate of flow in Millions of Gallons per day	0.7	0.9	1.5	4.2	1.0 ^a	0.8
	Total Acre Feet per year	820	1,060	1,700	4,720	1,120 ^a	850

Year	Comarillo Sanitary District (8)	City of Los Angeles Hyperion Plant (9)	City of Los Angeles Terminal Island Plant (10)	County Sanitation Districts of Los Angeles County Joint Disposal Plant (11)	County Sanitation Districts of Los Angeles County Lucky Lager Plant (12)	County Sanitation Districts of Los Angeles County Azusa Plant (13)	County Sanitation Districts of Los Angeles County Pomona Plant (14)
1955-56	Average rate of flow in Millions of Gallons per day	249.1	6.1	181.0		0.7	2.8
	Total Acre Feet per year	279,810	6,830	202,740		730	3,180
1956-57	Average rate of flow in Millions of Gallons per day	256.3	6.0	191.5	0.3	0.6	3.9
	Total Acre Feet per year	287,040	6,770	211,500	340	690	4,420
1957-58	Average rate of flow in Millions of Gallons per day	267.2	6.2	213.6	0.3	0.6	4.3
	Total Acre Feet per year	292,360	6,910	239,290	360	640	4,790
1958-59	Average rate of flow in Millions of Gallons per day	0.2 ^a	261.7	234.3	0.5	0.6	4.3
	Total Acre Feet per year	180 ^a	293,160	262,420	600	700	4,810
1959-60	Average rate of flow in Millions of Gallons per day	0.3	258.8	257.4	0.5	0.7	4.6
	Total Acre Feet per year	310	290,680	289,170	610	750	5,150
1960-61	Average rate of flow in Millions of Gallons per day	0.3	260.8	270.4	0.4	0.6	3.8
	Total Acre Feet per year	390	292,100	302,850	440	720	4,200
1961-62	Average rate of flow in Millions of Gallons per day	0.7	278.2	278.6	0.3	0.6	3.3
	Total Acre Feet per year	810	311,630	312,100	380	730	3,710

^a Estimated

TABLE B-5
 QUANTITIES OF WASTE WATER
 CENTRAL VALLEY REGION (10. 5)

Year	City of Redding (1)	City of Red Bluff (2)	City of Chico (3)	City of Oroville (4)	City of Gridley (5)	Yuba City (6)	City of Marysville (7)
1955-56	Average rate of flow in Millions of Gallons per day	0.8	1.6 ^a / _{1790^b}	0.8 ^a / _{90^b}	0.7	1.6 ^a / _{168^b}	1.6
	Total Acre Feet per year	850	1790 ^b	90 ^b	770	168 ^b	1780
1956-57	Average rate of flow in Millions of Gallons per day	0.5	1.5 ^a / _{1680^b}	0.8 ^a / _{90^b}	0.6	1.5 ^a / _{168^b}	1.4
	Total Acre Feet per year	590	1680 ^b	90 ^b	650	168 ^b	1610
1957-58	Average rate of flow in Millions of Gallons per day	0.9 ^a / _{1000^b}	1.6 ^a / _{1770^b}	0.8 ^a / _{90^b}	0.8	1.8	1.5
	Total Acre Feet per year	1000 ^b	1770 ^b	90 ^b	840	2040	1660
1958-59	Average rate of flow in Millions of Gallons per day	0.9	1.8 ^a / _{1600^b}	0.8 ^a / _{90^b}	0.7	1.9	1.6
	Total Acre Feet per year	2190	1600 ^b	90 ^b	790	2030	1820
1959-60	Average rate of flow in Millions of Gallons per day	1.9	1.8 ^a / _{1560^b}	0.7 ^a / _{81^b}	0.7 ^a / _{76^b}	2.1	1.6
	Total Acre Feet per year	2170	1560 ^b	81 ^b	76 ^b	2360	1750
1960-61	Average rate of flow in Millions of Gallons per day	2.0	1.1	1.1 ^a / _{1270^b}	0.7	1.5	1.6
	Total Acre Feet per year	2210	1230	1270 ^b	890	1670	1780
1961-62	Average rate of flow in Millions of Gallons per day	2.3	1.1	1.6 ^a / _{1520^b}	0.6 ^a / _{180^b}	1.1	1.8
	Total Acre Feet per year	2560	1270	1520 ^b	180 ^b	1280	2030
Year	City of Grass Valley (8)	City of Auburn (9)	City of Roseville (10)	City of Placerville (11)	Sacramento County Sanitation District No. 6 (12)	McClellan Air Force Base (13)	City of Woodland (14)
1955-56	Average rate of flow in Millions of Gallons per day	1.0 ^a / _{1100^b}	0.12 ^a / _{450^b}	1.2	1.0 ^a / _{1100^b}	0.3 ^a / _{1010^b}	1.6 ^a / _{1750^b}
	Total Acre Feet per year	1100 ^b	450 ^b	1390	1100 ^b	1010 ^b	1750 ^b
1956-57	Average rate of flow in Millions of Gallons per day	1.0 ^a / _{1100^b}	0.4 ^a / _{450^b}	1.1	1.0 ^a / _{1100^b}	0.6 ^a / _{1010^b}	1.9 ^a / _{2130^b}
	Total Acre Feet per year	1100 ^b	450 ^b	1270	1100 ^b	1010 ^b	2130 ^b
1957-58	Average rate of flow in Millions of Gallons per day	1.1	0.5	1.2	1.1	0.5	1.6 ^a / _{2130^b}
	Total Acre Feet per year	1200	600	1390	1200	970	2130 ^b
1958-59	Average rate of flow in Millions of Gallons per day	1.4	0.4	1.3	1.2	0.7	2.0 ^a / _{2210^b}
	Total Acre Feet per year	1500	500	1500	1340	800	2210 ^b
1959-60	Average rate of flow in Millions of Gallons per day	1.7	0.6	1.5	1.3 ^a / _{1420^b}	0.6	2.1 ^a / _{2200^b}
	Total Acre Feet per year	1950	680	1700	1420 ^b	730	2200 ^b
1960-61	Average rate of flow in Millions of Gallons per day	2.2	0.7	1.5	1.3 ^a / _{1420^b}	1.1	2.1 ^a / _{2300^b}
	Total Acre Feet per year	2470	760	1700	1420 ^b	1190	2300 ^b
1961-62	Average rate of flow in Millions of Gallons per day	1.8 ^a / _{2000^b}	0.8 ^a / _{800^b}	1.5 ^a / _{1700^b}	1.3 ^a / _{1450^b}	1.5	2.1 ^a / _{2300^b}
	Total Acre Feet per year	2000 ^b	800 ^b	1700 ^b	1450 ^b	1670	2300 ^b

a Estimated.
 b Partial estimate

TABLE B-5 (continued)
 QUANTITIES OF WASTE WATER
 CENTRAL VALLEY REGION (NO. 5)

Year	City of Davis (15)	West Sacramento Sanitary District (16)	City of Sacramento (17)	Sacramento County Parkway Estates Sewer Maintenance District (18)	Sacramento County Sanitation District No. 3 (19)	Sacramento County Cordova Sewer Maintenance District (20)	Water Air Force Base (21)
1955-56	0.7 780	1.6 ^b / 1790 ^b	45.2 5630				0.8 ^b / 900 ^b
1956-57	0.8 900	1.6 ^b / 1790 ^b	44.1 4940				0.8 ^b / 900 ^b
1957-58	0.7 890	2.2 2510	45.6 51140				1.0 1150
1958-59	1.1 1190	1.6 1830	45.2 50700				0.8 920
1959-60	1.0 ^a / 1120 ^a	1.7 1870	48.1 54070	0.5 540	2.1 2320	0.7 780	0.8 840
1960-61	1.0 ^a / 1120 ^a	1.7 1930	50.4 56410	0.6 620	2.4 2650	0.9 1030	0.8 840
1961-62	1.1 ^a / 1230 ^a	2.0 2230	50.5 56570	0.8 840	2.4 2670	1.2 1330	1.0 1080
Year	City of Vacaville Brown Street Plant (22)	Vacaville Esserly Plant (23)	Fibreboard Products Antioch Division (24)	City of Antioch (25)	Crown-Zellerbach Corporation (26)	Fibreboard Products San Joaquin Division (27)	E. I. Dupont Company (28)
1955-56	1.0 ^b / 1120 ^b	1.7 1870	5.0 ^b / 5600 ^b	0.8 ^b / 900 ^b	11.0 ^b / 12300 ^b	18.6 ^b / 20830 ^b	0.7 ^b / 780 ^b
1956-57	1.0 ^b / 1120 ^b	1.7 1870	5.0 ^b / 5600 ^b	1.0 ^b / 1120 ^b	11.0 ^b / 12300 ^b	18.6 ^b / 20830 ^b	0.7 ^b / 780 ^b
1957-58	1.1 ^b / 1230 ^b	2.0 2230	6.0 ^b / 5720 ^b	1.1 ^b / 1200 ^b	Cooling : Process 8.0 : 3.4 8940 : 3820	20830 ^b / 780 ^b	0.5 590
1958-59	1.1 ^b / 1230 ^b	2.0 2230	6.0 ^b / 5720 ^b	1.1 ^b / 1200 ^b	9.8 : 3.5 11440 : 4320	18.3 ^b / 20530 ^b	0.5 570
1959-60	1.1 ^b / 1250 ^b	0.8 ^c / 500	5.4 ^b / 6020 ^b	1.1 1180	11.9 : 2.8 13370 : 3090	19.0 ^b / 21300 ^b	0.7 750
1960-61	0.7 800	500	4.8 ^b / 5430 ^b	1.1 1210	12.6 : 2.9 14090 : 3220	19.0 ^b / 21300 ^b	0.6 620
1961-62	0.5 590	680	4.9 ^b / 5490 ^b	1.0 1170	13.2 : 2.8 14760 : 3160	18.9 21200	0.6 670

a. estimated.
 b. partial estimate.

TABLE B-5 (continued)
 QUANTITIES OF WASTE WATER
 CENTRAL VALLEY REGION (NO. 5)

Year	City of Lodi (29)	North Utility District (Lincoln Village) (30)	North Plant (31)	City of Stockton South Plant (32)	City of Tracy (33)	City of Manteca (34)	City of Modesto (35)
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 2.1 2370	1.0 ^a / 1120 ^b	5.2 5770	11.5 12900	1.9 2130	1.0 ^a / 1100 ^b	6.0 ^a / 6720 ^b
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 2.0 2270	1.0 ^a / 1120 ^b	5.2 5750	11.8 13200	2.0 2280	1.0 ^a / 1100 ^b	6.0 ^a / 6720 ^b
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 2.0 2260	1.3 1500	5.6 6270	11.5 12930	Domestic : Industrial 1.2 : 2.5 ^b	1.3 ^b / 1410 ^a	6.5 7250
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 2.1 2340	1.1 1180	5.7 6420	11.0 12360	1.1 ^a / 1190 ^b : 2.5 ^b / 2800 ^c	1.1	7.0 7870
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 2.2 2490	Domestic : Industrial 0.5 ^a / 38 ^b	6.3 ^b 6370 ^b	11.4 12820	1.2 : 1.6 1400 : 930	1.1 1260	Domestic : Industrial 3.1 3800 : 4370
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 3.2 3630	0.5 ^a / 38 ^b	b b	16.1 18030	1.3 : 2.0 1470 : 1020	1.1 1280	4.2 : 3.8 4700 : 4250
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 3.6 4020	0.5 ^a / 38 ^b	4.2 ^c 2630 ^c	14.4 16110	1.6 : 1.5 1730 : 750	1.2 1287	3.8 : 4.7 4250 : 5260
Year	City of Turlock (36)	Castle Air Force Base (37)	City of Atwater (38)	City of Merced (39)	City of Madara (40)	City of Clarks (41)	City of Fresno (42)
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.9 2080	0.6 ^a / 670 ^b	-- --	2.8 3090	1.1 ^a / 1570 ^b	0.6 ^a / 670 ^b	20.0 ^a / 22100 ^b
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 2.3 ^b / 3620 ^b	0.6 ^a / 670 ^b	-- --	2.3 2580	1.1 ^a / 1510 ^b	0.6 ^a / 670 ^b	22.0 ^a / 21640 ^b
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year Domestic : Industrial 1.0 1120	0.6 720	-- --	4.7 ^a / 5210 ^b	2.1 ^a / 2720 ^b	0.6 ^a / 670 ^b	25.0 ^a / 28900 ^b
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.4 1530	0.6 610	-- --	4.0 4630	2.5 2830	0.7 ^a / 780 ^b	26.8 30020
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.4 1512	0.6 ^a / 690 ^b	1.4 1600	3.2 ^a / 3510 ^b	2.6 ^a / 2910 ^b	0.7 ^a / 780 ^b	21.5 27140
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.4 1590	0.7 ^a / 781 ^b	1.6 1810	3.9 4420	2.8 3080	0.8 ^a / 890 ^b	27 30210
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.6 1772	0.7 ^a / 781 ^b	1.80 2020	4.0 ^a / 4480 ^b	2.7 ^a / 3020 ^b	0.9 ^a / 1000 ^b	31 ^a / 38000 ^b

a. estimated.
 b. flow bypassed to south plant beginning in June 1960.
 c. operation temporarily resumed in 1961-62.

TABLE B-5 (continued)
 QUANTITIES OF WASTE WATER
 CENTRAL VALLEY REGION (10. 5)

Year	City of Sanger (43)	City of Lemoore (44)	City of Hanford (45)	City of Visalia (46)	City of Corcoran (47)	City of Tulare (48)	City of Lindsay (49)
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.6 700	2.33/ 25803	1.6 1920	0.6/ 6203	-- --	Domestic : Industrial 1.3 510	1.0/ 11003
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.8 860	2.33/ 25803	1.8 2030	0.6/ 6203	-- --	1.5/ 16803	1.0/ 11003
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.6 650	2.33/ 25803	1.8 2000	0.6/ 6203	-- --	1.5/ 17103	1.0/ 11003
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.5 530	2.33/ 25803	1.9 2170	0.6/ 6203	0.5 601	1.7/ 19503	1.0/ 11003
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.53/ 5603	2.33/ 25803	1.9 2070	1.1/ 12303	0.4 445	1.3 1185	1.0/ 11003
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.6 670	2.33/ 25803	2.0 2280	2.8 3110	0.1 1013	1.3 1503	1.0/ 11003
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.83/ 8903	2.33/ 25803	1.9 2110	3.1/ 38003	0.1/ 1103	1.1 1281	1.0/ 12003

Year	City of Porterville (50)	City of Delano (51)	North-of-River Sanitary District (52)	City of Bakersfield Plant No. 1 (53)	Plant No. 2 (54)	Mt. Vernon County Sanitation District (55)	City of Taft (56)
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.6 700	0.9/ 10103	1.7/ 18703	2.0/ 21803	4.7 5220	2.3 2570	0.5 580
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.6 690	0.9 1010	1.8 1990	2.2 2500	5.3 5890	2.5 2830	0.5 600
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.6 650	1.9 2110	2.0 2280	1.9 2130	5.4 6070	3.1 3760	0.6 650
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.7 820	2.1 2310	1.6 1770	1.8 2050	6.0 6680	3.6 4060	0.6 620
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.83/ 9313	1.2/ 13003	1.7/ 19003	2.2 2137	6.3 7053	3.7 4192	0.6 627
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.8 916	1.2/ 14003	1.8/ 20003	1.7 1859	6.5 7318	3.4 3796	0.5 611
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.8 918	1.3/ 15003	2.1/ 23503	1.7 1948	6.8 7652	3.1 3448	0.6 628

a. estimated.

TABLE B-6
 QUANTITIES OF WASTE WATER
 LAUNCHER REGION (NO. 6)

Year	Susunville Consolidated Sanitary District (1)	South Tahoe Public Utilities District (2)	City of Bishop (3)	U. S. Naval Ordnance Test Station China Lake (4)	Edwards Air Force Base (5)	County Sanitation Districts of Los Angeles County Lancaster (6)	County Sanitation Districts of Los Angeles County Palmdale (7)
1955-56	Average rate of flow in Millions of Gallons per day 0.3 ^a Total Acre Feet per year 370 ^a		1.1 1,200	1.4 1,590	1.7 1,850	1.2 1,370	0.2 250
1956-57	Average rate of flow in Millions of Gallons per day 0.3 ^a Total Acre Feet per year 360 ^a		1.2 1,370	1.3 1,450	1.7 1,920	1.6 1,750	0.3 390
1957-58	Average rate of flow in Millions of Gallons per day 0.3 ^a Total Acre Feet per year 340 ^a	0.2 250	1.2 1,350	1.4 1,530	0.8 910	2.0 2,250	0.5 540
1958-59	Average rate of flow in Millions of Gallons per day 0.4 ^a Total Acre Feet per year 400 ^a	0.3 290	1.3 1,410	1.4 1,620	0.7 830	2.6 2,950	0.6 650
1959-60	Average rate of flow in Millions of Gallons per day 0.4 ^a Total Acre Feet per year 430 ^a	1.04 ^a 1,150 ^a	1.1 1,280	1.3 1,450	0.7 800	2.2 2,500	0.6 650
1960-61	Average rate of flow in Millions of Gallons per day 0.4 ^a Total Acre Feet per year 460 ^a	1.04 ^a 1,150 ^a	1.1 1,190	1.2 1,380	0.9 1,000	2.2 2,470	0.6 640
1961-62	Average rate of flow in Millions of Gallons per day 0.4 Total Acre Feet per year 490	0.97 ^a 1,080 ^a	1.0 1,130	1.3 1,510	1.0 1,070	2.7 2,980	0.7 740

Year	Victorville Sanitary District (8)	City of Barstow (9)	U. S. Marine Corps Supply Center Newo Plant (10)
1955-56	Average rate of flow in Millions of Gallons per day 0.6 ^a Total Acre Feet per year 700 ^a	0.8 ^a 900 ^a	
1956-57	Average rate of flow in Millions of Gallons per day 0.7 ^a Total Acre Feet per year 740 ^a	0.8 ^a 900 ^a	
1957-58	Average rate of flow in Millions of Gallons per day 0.7 ^a Total Acre Feet per year 740 ^a	0.9 ^a 1,010 ^a	
1958-59	Average rate of flow in Millions of Gallons per day 0.7 ^a Total Acre Feet per year 740 ^a	0.9 ^a 1,010 ^a	
1959-60	Average rate of flow in Millions of Gallons per day 1.0 Total Acre Feet per year 1,200	0.6 ^a 700 ^a	1.0 1,160
1960-61	Average rate of flow in Millions of Gallons per day 1.0 Total Acre Feet per year 1,090	0.8 ^a 900 ^a	0.6 700
1961-62	Average rate of flow in Millions of Gallons per day 1.0 Total Acre Feet per year 1,110	1.3 ^a 1,400 ^a	0.5 610

^a Estimated.

TABLE E-7

QUANTITIES OF WASTE WATER
 COLORADO RIVER BASIN REGION (NO. 7)

Year	City of Banning (1)	Coachella Sanitary District (2)	Indio Sanitary District (3)	City of Palm Springs (4)	U.S. Marine Corps Training Center, Twentynine Palms (5)	City of Brawley (6)	City of El Centro (7)
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year		1.2 ^a 1,370 ^a	0.6 710	1.2 ^a 1,320 ^a	1.7 ^a 1,840 ^a	1.1 ^a 1,570 ^a
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year		1.5 ^a 1,730 ^a	0.6 710	1.1 ^a 1,560 ^a	1.7 ^a 1,840 ^a	1.1 ^a 1,570 ^a
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.5 ^a 580 ^a	1.5 ^a 1,730 ^a	0.7 760	1.2 ^a 1,290 ^a	1.7 ^a 1,930 ^a	1.1 ^a 1,570 ^a
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.6 ^a 720 ^a	1.5 ^a 1,730 ^a	0.8 870	1.2 ^a 1,290 ^a	1.8 ^a 2,020 ^a	1.1 ^a 1,570 ^a
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.5 ^a 550 ^a	1.5 ^a 1,730 ^a	0.9 ^a 1,040 ^a	1.1 ^a 1,230 ^a	1.8 ^a 2,060 ^a	2.0 ^a 2,270 ^a
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	1.0 ^a 1,100 ^a	1.7 1,890	0.9 ^a 1,030 ^a	0.8 ^a 960 ^a	1.8 ^a 2,060 ^a	2.3 2,590
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.9 ^a 800 ^a	1.3 2,020	1.1 1,540	1.2 ^a 1,340 ^a	1.8 ^a 2,060 ^a	2.2 2,420
Year	City of Holtville (8)	City of Needles (9)	City of Blythe (10)				
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.7 ^a 980 ^a	0.1 ^a 460 ^a				
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.7 ^a 980 ^a	0.1 ^a 460 ^a				
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.7 ^a 980 ^a	0.7 ^a 810 ^a				
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.7 ^a 980 ^a	0.9 ^a 850 ^a				
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.7 ^a 1,000 ^a	0.6 ^a 680 ^a				
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.7 ^a 1,000 ^a	0.6 ^a 700 ^a				
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.7 ^a 1,000 ^a	0.7 780				

a. Estimated

QUANTITIES OF WASTE WATER

SANTA ANA REGION (NO. 6)

Year	City of Chino Plant No. 1 (1)	City of Chino Plant No. 2 (2)	City of Colton (3)	City of Corona (4)	U. S. Marine Corp. ^a Air Station El Toro (5)	City of Fontana (6)	Kaiser Steel Corporation Fontana (7)
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year		1.6 ^a 1,800 ^a	0.7 740	0.7 ^a 850 ^a		
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year		1.7 ^a 1,900 ^a	0.7 790	0.9 ^a 1,000 ^a		
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year		1.8 ^a 2,000 ^a	0.7 830	0.8 930	0.2 ^a 330 ^a	
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.8 ^a 840 ^a	2.1 2,310	0.8 930	0.7 830	0.7 780	
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.8 ^a 900 ^a	2.2 2,500	0.9 1,010	0.6 710	0.8 910	0.6 610
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.8 ^a 920 ^a	2.0 2,180	0.9 1,060	0.5 600	1.0 1,170	0.8 910
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.5 190	1.5 1,720	1.0 1,110	0.8 910	1.1 1,290	0.7 750

Year	March Air Force Base Main Plant (8)	March Air Force Base West Plant (9)	County Sanitation Districts of Orange County Plant No. 1 (10)	County Sanitation Districts of Orange County Plant No. 2 (11)	Cities of Ontario-Inland (12)	City of Redlands (13)	City of Rialto (14)
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.6 900	Combined 27.3 30,710		3.2 4,260	1.4 ^a 1,610 ^a	
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.7 810	34.1 38,180		4.8 5,420	1.6 1,790	0.5 380
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.5 510	14.9 16,660	25.5 28,570	4.5 5,040	1.8 1,960	0.7 750
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.5 530	23.3 26,150	24.7 27,700	5.2 5,790	1.9 2,080	0.8 810
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.5 510	28.3 31,780	25.4 28,480	5.6 6,320	2.0 2,210	0.9 960
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.4 480	25.3 28,330	31.6 35,310	7.2 ^a 8,000 ^a	2.1 2,390	0.9 980
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	0.4 480	27.3 30,610	46.2 51,650	6.0 6,710	2.3 2,580	1.0 1,110

a. Estimated

TABLE B-8 (continued)
 QUANTITIES OF WASTE WATER
 SANTA ANA REGION (NO. 8)

Year	City of Riverside Plant No. 1 (15)	City of Riverside Plant No. 2 (16)	City of San Bernardino Plant No. 1 (17)	City of San Bernardino Plant No. 2 (18)	City of Seal Beach (19)	Talbert Water District (20)
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	5.8 6,560	8.5 9,560			
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	6.4 7,160	8.6 9,620			
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	7.0 ^a 7,870 ^a	8.8 9,810	0.3 ^a 380 ^a	1.5 1,720	
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	7.3 ^a 8,170 ^a	9.1 10,180	0.1 ^a 1,70 ^a	2.2 2,440	
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	7.4 ^a 8,300 ^a	6.2 6,980	3.6 3,950	0.6 650	2.0 2,260
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	7.9 8,800	6.8 7,570	4.7 5,300	0.7 780	2.6 2,870
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year	8.7 9,710	7.0 7,790	5.8 6,550	0.7 820	0.7 740
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year					
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year					
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year					
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year					
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year					
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year					
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year					

a. Estimated

QUANTITIES OF WASTE WATER
 SAN DIEGO REGION (NO. 9)

Year	City of Laguna Beach (1)	City of San Clemente (2)	Camp Joseph H. Pendleton Plant No. 1 (3)	Camp Joseph H. Pendleton Plant No. 2 (4)	Camp Joseph H. Pendleton Plant No. 3 (5)	City of Oceanside (6)	City of Carlsbad (7)
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.9 1,030	0.5 550	1.0 1,160	0.7 740	0.6 700	1.6 1,800	
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.8 910	0.6 620	0.7 740	0.7 820	0.5 620	1.6 1,780	
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.1 ^a 1,530 ^a	0.6 660	0.8 890	0.7 740	0.5 560	1.8 2,050	
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.1 ^a 1,530 ^a	0.7 810	0.6 730	0.7 730	0.4 470	1.8 2,050	
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.5 1,690	0.6 660	0.6 710	0.6 690	0.4 410	2.1 2,370	0.6 ^a 670 ^a
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.6 1,820	0.6 720	0.7 750	0.6 700	0.3 340	2.4 2,700	0.6 ^a 670 ^a
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.3 1,440	0.7 810	0.7 750	0.7 740	0.3 340	2.4 2,700	0.5 ^a 520 ^a

Year	Vista Sanitation District (8)	City of Escondido Plant No. 1 (9)	City of Escondido Plant No. 2 (10)	Santee County Water District (11)	City of El Cajon (12)	City of Coronado "B" Street (13)	City of Coronado "A" Street (14)
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.6 710	0.6 710			0.8 880		1.3 ^a 1,410 ^a
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.7 760	0.7 760			1.0 1,170		1.3 ^a 1,410 ^a
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.0 1,170	1.0 1,170			1.5 1,660	0.5 ^a 560 ^a	1.3 ^a 1,460 ^a
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 0.9 720	1.1 1,230			2.0 2,280	0.5 ^a 560 ^a	1.3 ^a 1,460 ^a
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.0 1,150	1.1 1,270		0.5 510	2.1 2,350	0.5 ^a 560 ^a	1.3 ^a 1,460 ^a
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.0 1,100	0.6 650	0.6 620	0.6 630	2.1 2,300	0.5 ^a 560 ^a	1.3 ^a 1,460 ^a
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 1.2 1,300	0.7 800	0.7 760	0.8 950	2.2 ^a 2,430 ^a	0.4 ^a 430 ^a	0.2 ^a 960 ^a

^a Estimated

TABLE B-9 (continued)
 QUANTITIES OF WASTE WATER
 SAN DIEGO REGION (NO. 9)

Year	City of San Diego (15)	Spring Valley Sanitation District (16)	City of Chula Vista "A" Street Plant (17)	City of Chula Vista "B" Street Plant (18)	Palm City Sanitation District (19)	City of Imperial Bench (20)	International Boundary & Water Commission (21)
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 44,780	30.9	0.7 ^a 750 ^a	1.6 1,170			3.5 3,910
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 47,650	42.5	0.7 ^a 750 ^a	1.8 1,920			3.7 4,170
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 50,000	44.6	0.6 ^a 670 ^a	1.7 1,860			4.4 4,900
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 50,600	45.2	0.6 ^a 670 ^a	1.9 2,130	0.5 520	0.5 ^a 560 ^a	4.4 4,980
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 53,680	47.9	0.6 ^a 670 ^a	2.2 2,410	0.6 ^a 680 ^a	0.9 ^a 900 ^a	4.4 4,920
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 53,580	47.9	0.5 ^a 520 ^a	2.4 2,610	0.9 840	0.9 ^a 950 ^a	3.8 4,210
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year 54,550	48.8	0.3 ^a 310 ^a	2.9 3,130	0.9 890	0.9 ^a 1,000 ^a	1.9 2,150

Year							
1955-56	Average rate of flow in Millions of Gallons per day Total Acre Feet per year						
1956-57	Average rate of flow in Millions of Gallons per day Total Acre Feet per year						
1957-58	Average rate of flow in Millions of Gallons per day Total Acre Feet per year						
1958-59	Average rate of flow in Millions of Gallons per day Total Acre Feet per year						
1959-60	Average rate of flow in Millions of Gallons per day Total Acre Feet per year						
1960-61	Average rate of flow in Millions of Gallons per day Total Acre Feet per year						
1961-62	Average rate of flow in Millions of Gallons per day Total Acre Feet per year						

a - Estimated.

APPENDIX C
MINERAL ANALYSES OF WASTE WATERS

APPENDIX C

MINERAL ANALYSES OF WASTE WATERS

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TABLE C-1
MINERAL ANALYSES OF WASTE WATER

HERRIUS COASTAL REGION (NO. 1)

Number	Source	Date Sampled	Specific Gravity (micro-mhos at 25°C)	pH	Mineral constituents in parts per million													Total dissolved solids (ppm)	Hardness as CaCO ₃ (ppm)	Remarks			
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Phosphate (PO ₄)	Fluoride (F)	Borax Silica (B) (SiO ₂)						
1	City of Arcata	5-13-59	968	7.5	31	1.3	104	1.2	41	0	372	39	87	1.3	13	1.3	0.37	26	571	118	0		
					1.55	1.11	1.52	0.73	2.27	0.00	6.10	0.91	2.15	0.02	1.01	0.07							
					1.30	1.70	1.8	1.0	5.4	0	1.70	31	1.62	1.0	1.3	0.3	0.3	20	1465	62	0		
2	City of Eureka (Murray Street Plant)	5-13-59	965	7.2	19	1.5	111	1.1	35	0	207	16	156	1.7	25	1.1	0.33	21	533	54	0		
					0.95	1.23	1.83	0.83	1.91	0	3.39	0.76	1.40	0.05	0.79	0.06							
					0.70	2.02	1.58	1.1	31	0	226	52	239	0.1	24	0.2	0.4	13	626	59	0		
3	City of Willits	5-14-59	305	8.5	11	2.2	35	6.5	1.30	4.0	1.10	11	23	6.2	8.0	0.5	0.26	21	197	87	0		
					0.70	0.70	1.52	0.17	1.07	0.13	1.80	0.29	0.65	0.10	0.03	0.03							
					0.95	0.95	0.91	0.11	0.12	0.00	1.77	1.6	0.39	9.7	18	0.1	0.2	11	179	33	0		
4	City of Ukiah	5-14-59	657	7.4	24	20	56	2.3	19	0	224	29	148	12	24	0.8	0.35	29	1404	38	0		
					1.20	1.62	2.11	0.06	1.05	0.00	3.67	0.60	1.35	0.28	0.76	0.01							
					1.32	1.32	1.52	0.15	0.61	0.00	3.06	0.52	0.28	35	17	0.3	0.2	18	276	74	0		
5	Mendocino State Hospital	5-3-61	517	7.4	15	11	35	5.4	11	0	187	25	24	26	26	0.6	0.4	23	291	32	0		
					2.25	0.90	1.61	0.21	0.17	0	204	17	0.73	0.12	0.21	0.03							
6	City of Santa Rosa	8-11-61, 5-57	1,050	7.1	21	33	1.3	1.7	-	0	300	11	115	3.5	29	6.4	0.65	72	660	57	0		
					1.20	2.72	3.70	0.43		0.00	4.92	0.85	4.09	0.56	0.92	0.34							
					1.10	2.38	2.87	0.26	1.27	0.00	5.23	0.82	1.86	0.3	0.32	0.02	0.7	22	1110	36	0		
					1.10	2.38	2.87	0.26	1.27	0.00	5.23	0.82	1.86	0.3	0.32	0.02	0.7	22	1110	36	0		

a --Summation

TABLE C-2
MINERAL ANALYSES OF WASTE WATER
 SAN FRANCISCO BAY REGION (HC, 2)

Number	Source	Date Sampled	Specific Conductance (micro-mhos at 25°C)	pH	Mineral constituents in parts per million													Total dissolved solids (ppm)	Hardness as CaCO ₃ (ppm)	Remarks			
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonates (CO ₃)	Bicarbonates (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Phosphate (P)	Fluoride (F)	Boron (B)				Silica (SiO ₂)		
1	San Mateo-Marina City Sanitary District	9-7-56	6,700	7.6	51	155	1,000	50	0	0	269	1,920	1.0	--	--	0.51	21	3,690	71	770	519		
		6-27-61	4,200	7.6	16	91	695	35	0	0	279	1,160	0.9	27	0.7	0.6	17	2,260	69	504	276		
		8-13-56	1,200	7.1	21	25	110	1.3	1.5	0.00	0.68	42	220	1.2	--	--	0.11	19	659	64	156	0	
		8-13-57	2,060	7.6	19	47	270	0.7	2.05	0	0	279	1,088	0.8	4.8	3.8	0.19	23	1,120	61	212	13	
		12-19-60	1,990	7.4	33	49	254	0.2	1.05	0	0	185	87	1.85	26	0.2	0.8	15	1,040	60	286	134	
3	Marin County Sanitary Districts Number 1 and 2	9-11-56	4,240	6.8	52	259	7.1	35	0	0	239	84	1.140	7.8	0.2	0.18	21	2,220	72	195	299		
		8-11-57	3,820	6.8	42	84	589	33	0	0	178	1,080	5.8	28	3.8	0.15	22	2,110	72	452	388		
		12-20-60	2,130	7.4	39	53	268	0.1	1.55	0	0	80	182	0.7	25	0.2	0.4	16	1,070	58	316	103	
		9-11-56	12,800	6.6	114	288	2,230	41	0	0	314	562	1,080	2.8	--	--	1.4	21	7,600	75	1,470	1,210	
4	San Rafael Sanitation District	9-3-58	1,220	--	--	--	--	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	
		12-21-60	2,690	7.3	37	63	369	22	31	0	299	1,28	6.25	0.2	3.1	0.5	20	1,410	63	354	109		
		6-27-61	930	7.8	16	28	128	14	29	0	656	102	0.9	--	1.0	0.4	21	1,67	16	154	0		
		12-20-60	906	7.7	25	34	71	13	26	0	305	73	0.8	32	0.2	0.5	11	470	36	204	0		
		9-31-56	1,110	7.1	30	31	116	15	15	0	162	56	1.08	1.01	--	0.37	51	693	59	203	70		
5	Lee Gallinas Valley Sanitary District	8-12-61-57	1,360	7.2	16	41	182	22	0	162	76	232	115	0.8	7.2	0.50	53	895	63	207	74		
		6-27-51	3,450	7.6	89	81	464	28	0	138	836	112	1.85	51	0.4	0.2	42	1,828	63	565	435		
		12-23-60	698	7.4	16	12	60	18	26	0	287	11	1.1	28	1.6	0.5	76	395	38	88	0		
6	Marin County Sanitary District No. 6	8-26-62-57	1,020	7.3	21	29	133	15	0	231	170	5.4	0.7	1.8	0.29	38	584	60	171	0			
		12-22-60	1,100	7.5	28	27	118	12	22	0	229	81	2.3	30	0.3	0.7	28	575	50	180	0		
7	City of Petaluma	3-21-61	991	8.4	11	27	13	13	2	206	113	2.9	24	0.6	1.6	22	667	48	212	39			

TABLE 3-2 (continued)
MINERAL ANALYSES OF WASTE WATER
SAN FRANCISCO BAY REGION (NO. 2)

Number	Source	Date Sampled	Specific conductance (micro-mhos or 25°C)	pH	Mineral constituents in parts per million											Total dissolved solids (ppm)	Per cent sodium	Hardness as CaCO ₃		Remarks		
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Phosphate (PO ₄)			Fluoride (F)	Boron (B)		Silica (SiO ₂)	Total (ppm)
11	Cities of Fairfield and Suisun	5-19-59	2,080	7.4	77	5.3	253	13	31	0	0	280	125	575	1.2	1.4	28	1.2	1.2	410	98	
					3.84	4.35	15.6	7.33	1.72	0	0	6.23	60.22	0.33	1.20	0.06	0.06	0.06	0.06	0.06	0.06	
12	Marine Isian- Naval Shipyard	12-22-60	3,700	7.6	72	87	522	25	25	0	0	339	165	333	0.4	2.2	26	0.4	0.4	521	202	
					3.59	6.83	22.70	0.64	1.94	0	0	6.38	7.44	0.00	1.23	0.02	0.02	0.02	0.02	0.02	0.02	
13	Vallejo Sanitation and Flood Control	3-21-61	3,470	7.5	63	76	551	22	22	0	0	262	200	216	0.6	2.2	17	0.6	0.6	468	253	
					3.11	6.25	23.96	0.82	1.22	0	0	4.29	4.16	0.00	0.38	0.05	0.05	0.05	0.05	0.05	0.05	
13	Vallejo Sanitation and Flood Control	3-17-60	1,670	8.0	27	19	181	16	13	0	0	423	98	254	2.1	2.1	24	2.1	2.1	293	0	Treatment Plant Effluent
					1.05	4.03	7.09	0.41	2.38	0	0	2.04	7.16	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	North outfall	9-17-56	2,430	7.1	51	51	308	18	37	0	0	383	130	502	1.6	2.2	20	1.6	1.6	336	22	Raw Sewage
					2.54	4.18	13.40	0.46	2.95	0	0	2.71	44.16	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	South Outfall	9-17-56	1,760	6.8	30	35	232	16	--	--	482	71	7.90	1.48	8.54	0.02	--	--	220	0	Raw Sewage	
					1.50	2.90	10.09	0.41	--	--	7.90	1.48	8.54	0.02	--	--	--	--	--	--		--
14	City of Benicia	6-12-61	1,710	7.4	44	46	182	15	15	0	0	414	127	268	0.4	2.2	15	0.4	0.4	299	0	
					2.20	3.78	7.91	0.38	0.83	0	0	6.78	2.68	0.01	1.77	0.03	0.03	0.03	0.03	0.03	0.03	
15	Ethyl Corporation	6-16-61	12,100	8.0	28	8.5	2,660	2.6	0.0	0	102	275	4,950	1.0	0.5	5.4	0.0	0.5	7,030	98	46	
					1.90	0.70	113.10	0.13	0.00	0	0	1.87	5.72	0.02	0.00	0.03	0.03	0.03	0.03	0.03		
16	Dow Chemical Company	9-19-56	1,980	9.4	64	5.4	286	14	--	63	40	72	482	1.6	1.6	12	--	--	1,070	94	38	
					0.32	0.41	17.23	0.36	--	2.07	0.66	1.50	13.59	0.02	0.00	0.00	0.00	0.00	0.00	0.00		
16	Dow Chemical Company	9-26-57	5,790	8.0	59	95	962	22	--	78	236	1700	0.7	0.0	0.0	0.0	0.0	0.6	3,120	79	538	
					2.74	7.32	41.85	0.56	0.00	1.28	4.91	47.94	0.01	0.00	0.00	0.03	0.03	0.03	0.03	0.03		
16	Dow Chemical Company	6-14-61	2,790	8.0	28	44	431	25	44	87	117	226	1.8	0.0	0.2	1.2	0.0	0.2	1,500	--	253	
					1.40	3.65	18.75	0.64	0.22	0.03	1.42	2.44	22.45	0.03	0.00	0.01	0.01	0.01	0.01	0.01		
17	U. S. Steel Corporation Outfall No. 1	9-19-56	862	6.4	30	18	120	4.8	--	105	54	102	1.4	1.4	22	0.0	0.0	473	67	123		
					0.95	1.51	5.22	0.12	--	1.72	1.17	1.72	5.08	0.02	0.00	0.00	0.00	0.00	0.00		0.00	
17	U. S. Steel Corporation Outfall No. 1	5-20-59	1,440	3.1	25	24	128	2.4	1.1	0.0	1.5	24.8	1.4	0.0	0.0	0.0	0.0	602	55	157		
					1.25	1.89	5.57	0.14	0.07	0.00	3.18	6.99	0.02	0.00	0.00	0.00	0.00	0.00	0.00			
17	U. S. Steel Corporation Outfall No. 2	6-19-61	2,110	6.4	20	44	225	12	1.2	1.1	155	5.6	0.1	0.0	0.2	1.1	0.0	1,100	70	298		
					1.90	3.65	12.85	0.31	0.07	0.00	0.21	3.23	0.03	0.00	0.00	0.01	0.01	0.01	0.01			
17	U. S. Steel Corporation Outfall No. 2	9-19-56	741	6.0	22	16	86	3.2	--	38	26	143	1.9	0.0	--	--	--	398	60	121		
					1.10	1.32	3.74	0.11	--	0.00	0.00	2.00	4.03	0.01	0.00	0.00	0.00	0.00	0.00			
17	U. S. Steel Corporation Outfall No. 2	5-20-59	1,100	7.4	23	23	156	5.7	4.0	63	86	260	1.1	0.0	0.2	1.1	0.0	605	68	151		
					1.15	1.86	6.79	0.34	1.00	1.03	1.70	7.13	0.02	0.00	0.00	0.00	0.00	0.00				
17	U. S. Steel Corporation Outfall No. 2	6-20-61	2,120	5.8	95	20	288	14	0.0	5	202	6.8	0.2	0.1	0.2	0.1	0.1	1,410	73	297		
					4.24	1.64	16.87	0.36	0.00	0.08	4.21	19.35	0.00	0.00	0.00	0.00	0.00					
17	U. S. Steel Corporation Outfall No. 2	9-19-56	1,160	5.6	17	16	60	2.6	--	0	294	1.4	0.0	--	--	--	--	547	66	107		
					0.05	1.29	4.26	0.07	--	0	3.75	0.02	0.00	0.00	0.00	0.00	0.00					
17	U. S. Steel Corporation Outfall No. 2	5-20-59	1,770	2.8	17	21	112	3.9	0.0	--	213	1.7	0.0	0.1	0.1	0.1	0.1	654	44	136		
					0.05	1.87	4.87	0.12	0.00	0.00	5.68	5.70	0.03	0.00	0.00	0.00	0.00					
17	U. S. Steel Corporation Outfall No. 2	6-28-61	2,950	3.4	31	52	285	14	0.2	--	272	0.1	0.1	0.1	0.1	0.1	0.1	1,410	73	291		
					1.55	4.20	10.75	0.36	0.01	0.00	2.66	19.05	0.00	0.00	0.00	0.00	0.00					

TABLE C-2 (continued)
 SAN FRANCISCO BAY REGION (NO. 2)
 MINERAL ANALYSES OF WASTE WATER

Number	Source	Date Sampled	Specific conductance (micro-mhos at 25°C)	pH	Mineral constituents in parts per million											Total dissolved solids (ppm)	Per cent sodium	Hardness as CaCO ₃ Total (ppm)	N/C (ppm)	Remarks		
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Phosphate (PO ₄)						Fluoride (F)	Bromine (Br)
18	Johns Manville Corporation	9-17-56	971	6.0	15 1.75	21 1.69	117 5.09	8.2 0.21	0	0	0	1.46 0.00	7.7 0.16	228 0.03	0.8 0.11	--	0.3 0.18	53	172	52		
		8-21-57	6,480	6.8	12 1.09	161 13.77	1110 100.78	50 1.28	0	0	1.03 0.00	2.39 0.00	269 0.60	2.00 0.00	0.9 0.01	0.0 0.00	0.07 0.11	72	168	722		
		6-13-61	2,460	6.7	15 1.37	56 17.72	112 17.72	16 0.11	0	0	0.03 0.00	1.92 0.00	2.33 0.00	0.6 0.00	1.7 0.00	0.3 0.00	0.5 0.11	71	301	245	ABS 0.1 ppm	
		9-18-56	2,130	7.2	15 2.01	3.72 0.71	20.7 10.71	1.1 0.03	0	0	0.00 0.00	5.57 0.00	3.00 0.00	0.85 0.00	0.7 0.01	--	1.52 0.27	61	318	39		
		8-20-57	1,800	7.3	19 2.15	2.24 0.18	20.1 10.18	1.6 0.11	0	0	0.00 0.00	3.18 0.00	2.75 0.00	0.9 0.01	0.2 0.01	0.1 0.00	0.71 0.29	57	271	10		
20	Shell Chemical Company	6-13-61	1,920	7.1	52 2.59	37 1.78	216 10.77	12 0.31	0	0	0.00 0.00	6.21 0.00	2.68 0.00	2.87 0.00	0.7 0.01	1.15 0.02	1.6 0.50	1050	55	204	0	ABS 2.7 ppm
		5-20-59	3,720	5.9	31 1.90	51 1.77	19.23 0.36	0	0	0.00 0.00	0.00 0.00	11.02 0.00	2.53 0.00	1.4 0.00	1.1 0.00	0.1 0.00	0.02 0.11	7060	57	332	329	
		3-7-60	3,720	7.8	12 2.10	63 5.59	531 33.97	10 0.16	0	0	0.00 0.00	1.57 0.00	2.35 0.00	1.4 0.00	1.2 0.00	0.3 0.00	0.5 0.11	2110	69	385	306	
		9-17-56	1,120	7.6	62 1.09	1.73 0.03	9.2 0.21	21 1.16	0	0	0.00 0.00	0.52 0.00	1.14 0.00	0.3 0.00	0.2 0.01	0.2 0.01	0.2 0.01	817	117	351	0	ABS 0.1 ppm
		8-15/16-57	1,200	7.6	18 2.10	15 3.69	158 10	7.26 0.00	0	0	0.00 0.00	5.41 0.00	1.69 0.00	1.56 0.00	0.8 0.01	0.5 0.02	0.2 0.01	788	52	304	33	
22	Central Contra Costa Sanitation District	6-13-61	1,240	7.7	53 2.61	10 3.79	118 1.13	0.0 0.20	0	0	0.00 0.00	4.21 0.00	1.48 0.00	1.15 0.00	0.2 0.00	0.2 0.00	0.2 0.00	690	10	297	0	
		9-18-56	1,030	7.5	32 1.60	24 1.86	1.76 0.19	0	0	0.00 0.00	7.13 0.00	2.79 0.00	0.9 0.01	--	--	0.59 0.30	602	51	178	0		
		6-11-61	1,040	7.1	29 1.15	26 2.10	108 1.32	15 0.30	0	0	0.00 0.00	5.23 0.00	2.12 0.00	1.1 0.00	0.6 0.01	0.2 0.01	0.77 0.28	693	14	178	0	
		9-17-56	835	7.1	21 1.20	16 1.32	30 1.10	12 0.31	0	0	0.00 0.00	0.71 0.00	1.39 0.00	0.3 0.00	0.2 0.00	0.2 0.00	0.6 0.18	1415	10	125	0	
		6-11-61	835	6.5	26 1.30	20 1.70	34 1.69	23 0.39	0	0	0.00 0.00	4.92 0.00	2.85 0.00	0.8 0.01	--	--	0.19 0.11	169	51	149	0	
23	City of Martinez	8-19-57	1,230	7.3	12 1.60	16 1.31	1.95 1.18	24 0.61	0	0	0.00 0.00	0.75 0.00	4.56 0.00	1.52 0.00	1.3 0.00	0.2 0.00	0.82 0.08	673	71	116	0	
		6-12-61	1,980	7.2	10 1.40	3.29 1.14	2.3 1.14	1	0	0.00 0.00	0.62 0.00	1.3 0.00	0.3 0.00	0.3 0.00	0.3 0.00	1.6 0.08	1.6	62	20	20		
		9-19-56	1,178	6.3	14 1.17	16 1.77	5.4 0.25	4.4 0.11	0	0	0.00 0.00	1.8 0.00	2.10 0.00	0.6 0.00	0.2 0.00	0.1 0.00	0.79 0.13	303	5.0	218	113	
		5-21-59	1,301	6.6	22 11.13	13 1.37	16 0.70	35 0.81	0	0	0.00 0.00	2.0 0.00	1.75 0.00	1.1 0.00	0.1 0.00	0.1 0.00	0.87 0.28	850	14	762	19	
		6-16-61	21,800	7.0	24 11.18	127 11.56	5220 211.37	178 1.35	0	0	0.00 0.00	11.8 1.07	27.07 0.00	0.9 0.00	0.0 0.00	0.0 0.00	2.5 0.07	16,400	16	1140	3050	

TABLE C-2 (continued)
MINERAL ANALYSES OF WASTE WATER
 SAN FRANCISCO BAY REGION (NO. 2)

Number	Source	Date Sampled	Specific conductivity (micro-mhos or 25°C)	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Per cent sodium	Hardness as CaCO ₃	Remarks				
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)					Phosphate (PO ₄)	Fluorides (F)	Boron (B)	Silica (SiO ₂)
31	One Loma Sanitary District	9-4-56	1,040	7.4	29	34	100	13	23	0	377	75	81	0.8	31	0.41	21	546	49	213	0	
		8-7-57	919	7.4	37	20	88	34	23	0	201	71	68	1.2	32	0.55	21	471	43	174	0	
		9-22-24-59	978	7.0	28	31	84	33	36	0	377	68	72	0.5	33	0.6	18	569	37	198	0	
32	City of Hayward	9-4-56	1,240	6.5	22	22	146	58	0.2	0	431	24	160	1.2	--	0.64	22	687	52	218	0	
		8-9-57	1,320	7.3	28	17	203	36	--	0	517	13	186	0.7	0.01	0.8	21	781	63	215	0	
		9-22-24-59	1,130	7.0	47	18	143	66	1.5	0	324	32	178	0.5	0.01	0.3	21	659	55	190	0	
33	Union Sanitary District Newark Plant	8-7-57	2,280	7.2	72	72	269	20	--	0	392	12	440	3.6	--	0.77	27	1,400	54	475	154	
		5-22-61	1,620	7.7	47	39	179	16	40	0	521	73	235	1.2	44	1.0	26	864	49	279	0	
		5-24-61	1,640	8.0	28	24	224	16	25	0	563	53	200	1.7	32	1.0	25	850	58	170	0	
34	Union Sanitary District Irvington Plant	4-28-60	901	7.4	21	20	129	25	27	0	313	97	148	--	1.01	--	14	--	--	104	0	
		8-28-56	1,860	6.4	61	27	238	25	18	0	564	12	312	1.6	--	0.84	28	1,071	57	264	0	
		8-6-57	1,760	7.6	72	34	206	79	20	0	463	67	242	0.8	--	0.4	31	1,028	49	318	0	
35	City of San Jose	5-22-61	2,300	7.5	57	31	295	150	28	0	471	495	180	3.0	34	0.8	24	1,480	54	272	0	
		8-28-56	4,060	7.2	110	131	550	14	1.7	0	218	222	104	2.9	--	0.46	27	1,142	59	832	551	
		1957	1,970	--	--	--	--	--	--	--	--	--	375	--	--	--	--	--	--	--	--	--
36	City of Mountain View	5-22-61	1,930	7.8	57	50	216	18	26	0	423	78	368	1.3	33	0.9	29	1,030	51	350	3	
		8-31-56	2,620	7.0	62	39	385	22	52	0	566	51	250	1.5	--	0.57	28	1,477	71	316	0	
		8-8-57	2,180	7.5	68	37	283	19	42	0	435	71	422	0.2	--	0.64	22	1,451	57	321	0	
37	City of Sunnyvale	5-22-61	8,040	1.8	55	27	306	40	40	0	0	1100	487	1.2	27	0.4	25	2330	64	448	248	

TABLE 4-2 (continued)
 SAN FRANCISCO BAY REGION (NO. 2)
MINERAL ANALYSES OF WASTE WATER

Number	Source	Date Sampled	Specific Gravity (micro-sum at 25°C)	pH	Mineral constituents in parts per million equivalents per million										Total dissolved solids (ppm)	Percent sodium	Hardness as CaCO ₃ (ppm)	Remarks					
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)					Phosphate (PO ₄)	Fluoride (F)	Boron (B)	Silica (SiO ₂)	
39	City of Palo Alto	8-30-56	1.091	7.1	70 3.49	26 4.03	441 19.18	21 3.54	44 1.88	0	434 7.11	1.5 3.44	670 18.87	0	0	0	0	0	28	406	50		
		1957	1.920	--	--	--	--	--	--	10.5	0	0	0	0	0	0	0	0	0	--	--	--	
		5-23-61	1.520	7.6	18 2.79	18 2.79	302 8.79	12 0.31	26 1.14	0	446 10.07	98 4.04	446 12.94	0	0	0	0	0	25	209	0		
		8-29-56	2.270	7.1	48 4.75	306 13.22	306 13.22	17 0.43	62 2.46	0	631 14.03	71 2.59	144 3.24	226 6.43	0	0	0	0	0	20	332	0	
		2-5-57	1.360	7.6	18 4.93	55 4.56	498 13.40	18 0.46	24 1.01	0	412 9.43	195 4.19	526 14.83	0	0	0	0	0	0	22	323	66	
40	Menlo Park Sanitary District	5-15-61	2.060	7.7	41 1.70	41 1.70	278 11.09	11 0.33	42 1.77	0	281 6.60	42 1.87	425 12.86	0	0	0	0	0	13	424	5		
		8-30-56	3.130	7.2	72 3.76	72 3.76	476 20.71	21 0.54	22 1.77	0	204 7.70	102 2.12	745 20.73	0	0	0	0	0	20	424	0		
		1957	2.380	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	--	--	--	
		3-31-60	1.180	7.0	44 2.80	49 12.33	284 12.33	23 0.59	35 1.34	0	298 4.88	131 4.73	450 12.69	1.2	0	0	0	0	16	313	69		
		7-6-56	962	7.1	17 4.05	22 1.77	93 4.05	14 0.36	23 1.83	0	358 5.87	20 4.69	98 4.76	3.7	0	0	0	0	24	121	0		
41	Redwood City	8-6-57	905	7.4	19 1.63	20 1.63	33 4.05	17 3.43	42 2.38	0	268 4.39	72 1.50	24 2.65	0	0	0	0	0	22	507	45		
		5-22-61	857	7.4	15 1.07	13 1.07	87 3.73	14 0.36	45 1.94	0	242 3.98	52 1.08	254 1.65	0	0	0	0	0	11	486	48		
		8-31-56	3.000	7.2	45 2.25	48 5.63	440 18.70	21 0.54	42 3.33	0	436 8.98	74 1.94	745 21.01	0	0	0	0	0	12	594	45		
		1958	3.570	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	--	--	--	
		2-28-61	2.340	7.2	61 2.05	53 4.36	307 13.40	17 0.43	42 4.13	0	268 4.49	112 2.33	518 13.47	0.5	0	0	0	0	14	320	100		
42	City of San Mateo	8-30-56	1.210	7.0	21 1.95	21 1.75	142 5.18	16 3.11	45 2.09	0	308 5.05	40 0.62	215 6.36	0	0	0	0	0	18	662	110		
		8-6-57	754	7.8	8.8 0.44	22 1.80	78 3.39	13 0.33	31 1.72	0	275 4.51	11 0.65	24 1.65	0	0	0	0	0	20	437	44		
		4-26-60	2.360	7.2	41 1.05	48 3.75	232 14.44	22 0.56	48 2.66	0	332 3.90	23 1.58	156 4.21	0	0	0	0	0	15	449	54		
		8-29-56	800	6.8	22 1.10	22 0.54	72 3.04	16 0.41	27 2.38	0	344 5.84	26 3.34	60 1.69	0	0	0	0	0	22	440	82		
		8-5-57	881	7.0	27 1.15	8.6 0.71	90 3.92	15 0.38	42 4.13	0	335 5.49	12 0.40	75 4.12	0	0	0	0	0	24	425	46		
43	City of Millbrae	4-26-60	922	7.1	11 1.64	20 1.64	15 0.78	15 0.78	58 3.21	0	268 4.39	42 1.02	82 2.51	0	0	0	0	0	12	509	30		

TABLE 0-2. (continued)
MINERAL ANALYSES OF WASTE WATER

SAN FRANCISCO BAY REGION (NO. 2)

Number	Source	Date Sampled	Specific conductance (micro-mhos at 25°C)	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Per cent sodium	Hardness as CaCO ₃		Remarks				
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)			Phosphate (PO ₄)	Fluoride (F)		Boron (B) (SiO ₂)	Total (ppm)	N (ppm)	C (ppm)
46	Cities of South San Francisco and San Bruno	8-29-56	1,760	7.2	61	20	212	16	36	0	372	111	432	1.2	0.61	24	65	236	0				
					3.34	1.68	9.62	0.41	4.30	0.00	6.11	2.34	0.02										
					57	18	360	20	466	91	462	0.8	0.26	22	270	68	0.39	215	0				
47	City and County of San Francisco Southwest Plant	2-24-61	2,270	7.4	62	25	300	16	50	0	274	225	416	3.2	0.8	23	1,410	17					
					3.39	1.36	13.05	0.41	2.77	0.00	4.49	4.68	0.1	0.34									
					68	24	780	41	26	0	398	172	1.2										
48	North Point Plant	9-5-56	2,080	6.8	24	38	301	26	18	0	344	68	465	0.8	1.44	12	1,110	73	247	0			
					3.14	1.10	2.18	0.36	0.21	0.00	1.12	0.77	1.51	0.31									
					1.8	0.96	2.1	0.31	0.83	0.00	1.34	0.75	1.07	0.31									
49	McQuinn Plant (Golden Gate Park)	1959	940	7.5	24	38	301	26	18	0	344	68	465	0.8	1.44	12	1,110	73	247	0			
					3.14	1.10	2.18	0.36	0.21	0.00	1.12	0.77	1.51	0.31									
					1.8	0.96	2.1	0.31	0.83	0.00	1.34	0.75	1.07	0.31									
50	Richmond-Sweet Plant	9-6-56	728	6.7	64	15	55	34	37	0	260	18	69	0.5	0.31	17	323	55	77	0			
					0.32	1.26	2.39	0.36	2.05	0.00	4.25	0.37	1.95	0.31									
					2.1	0.17	1.89	0.31	0.83	0.00	1.34	0.75	1.07	0.31									
51	North San Mateo County Sanitary District	9-12-56	1,020	7.0	18	23	95	15	65	0	279	44	2	0.8	0.18	0	570	54	14	0			
					1.90	1.90	3.74	0.38	3.60	0.00	6.21	1.90	2.59	1.01									
					1.0	0.27	2.2	0.41	2.98	0.00	6.16	0.94	2.74	0.31									
52	City of Livermore	5-21-59	2,120	7.4	69	24	257	11	43	0	600	68	248	0.32	0.32	51	1,260	51	375	0			
					3.41	4.45	11.18	0.28	3.38	0.00	9.83	1.42	9.81	0.32									
					47	58	228	13	Trace	0	455	69	220	71	43	1.36	1.8	41	1,080	57	358	0	

TABLE C-3

MINERAL ANALYSES OF WASTE WATER

(CONTINUED FROM TABLE B-1)

Number	Source	Date Sampled	Specific conductance (micro-mhos at 25°C)	pH	Mineral constituents in parts per million											Total dissolved solids (ppm)	Per cent sodium (ppm)	Hardness as CaCO ₃ (ppm)	Remarks					
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Phosphate (PO ₄)					Fluoride (F)	Bromine (Br)	Silica (SiO ₂)		
1	City of Santa Cruz	9-6-56	2,010	7.6	55 2,771	32 2,262	28 12,001	0.72	33 1,853	0	0.00	370	83	1.2 11,381	0.02	0	0.61	23	1,110	66	268	0		
		8-1-57	1,200	7.5	57 2,011	16 1,333	11.1 4,222	0.18	12 1,055	0	0.00	312	73	1.96 5,553	0.02	0	0.96	21	719	52	208	0		
		4-29-59	1,150	6.7	78 3,789	10 4,493	11.3 4,972	0.36	26 1,741	0	0.00	256	114	1.44 4,780	0.01	0	0.51	26	689	43	236	26		
		8-12-59	1,010	6.7	52 2,759	9.6 4,779	11.3 4,911	0.11	25 1,739	0	0.00	260	148	1.2 3,641	0.02	0	0.81	38	579	47	169	0		
		5-26-60	1,170	7.3	53 2,481	16 1,332	12 5,39	0.31	32 1,777	0	0.00	350	62	1.40 5,711	0.19	0	1.2	26	693	47	196	0		
		9-21-60	935	--	--	--	100 4,35	--	--	0	0.00	--	--	1.36 3,331	--	--	0.7	--	64.2	--	--	--	--	
		5-26-61	1,640	7.0	--	--	128 4,61	0.36	--	0	0.00	--	--	281 7,792	--	--	1.0	--	91.8	--	248	--		
		12-6-61	1,590	7.6	79 3,701	17 1,240	18 6,405	0.16	26 1,741	0	0.00	298	112	2.64 7,421	0.02	0	0.5	25	888	54	268	24		
		6-20-56	1,110	7.1	64 3,139	29 2,337	11.3 4,92	0.13	0.1 1,078	0	0.00	3.5 5,65	40	1.70 4,779	0.02	0	0.17	37	641	145	278	0		
		4-29-59	1,390	6.5	62 3,109	47 3,313	1.9 6,75	0.21	23 1,277	0	0.00	292	203	1.56 4,113	0.01	0	0.5	25	848	142	350	105		
		8-11-59	1,180	6.9	55 2,711	38 3,113	2.7 4,35	0.28	27 1,56	0	0.00	340	77	1.24 3,50	0.02	0	0.55	26	655	36	296	17		
		5-21-60	1,120	6.8	69 3,09	39 3,721	104 4,52	0.28	12 1,67	0	0.00	397	72	1.22 3,441	0.27	0	0.3	38	691	38	316	0		
9-21-60	1,500	--	--	--	160 6,96	2.15 3,30	--	--	0	0.00	--	--	--	--	--	0.1	--	864	--	--	--			
5-26-61	1,390	7.5	61 3,701	48 3,393	1.22 5,30	0.33	12 1,777	0	0.00	160	56	1.50 4,233	0.03	0	0.5	36	715	37	350	0				
9-21-61	1,420	7.1	85 4,271	29 2,338	14.8 6,411	0.38	27 1,50	0	0.00	129	81	2.05 5,778	0.01	0	0.3	40	815	43	331	0				
5-26-59	1,290	7.5	45 2,700	24 2,700	100 4,35	0.11	66 3,66	0	0.00	445	104	1.1 3,238	0.02	0	0.1	37	751	34	212	0				
8-12-59	1,260	6.7	45 2,211	26 2,711	105 4,57	0.11	63 3,13	0	0.00	455	65	1.18 3,333	0.01	0	0.1	37	729	36	220	0				
9-20-60	1,250	--	--	--	100 4,35	2.60	--	--	0	0.00	--	--	--	--	--	0.2	--	573	--	--	--			
5-23-61	1,160	7.8	--	--	116 5,04	0.11	--	--	0	0.00	--	--	1.03 2,90	--	--	2.0	--	632	--	194	--			
9-20-61	1,260	7.2	41 3,011	23 1,789	11.6 5,011	0.51	59 3,277	0	0.00	457	75	1.96 7,419	0.01	0	0.5	47	620	40	195	0				

TABLE C-3 (continued)
MINERAL ANALYSES OF WASTE WATER
 CHARTERED LOCAL AGENCIES (HW, S)

Number	Source	Date Sampled	Specific conductance (micro-mhos/cm at 25°C)	pH	Mineral constituents in parts per million													Total dissolved solids (ppm)	Percent solids (ppm)	Hardness as CaCO ₃ (ppm)	Remarks
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Palatium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Phosphate (PO ₄)	Fluoride (F)	Borax (B)				
5	Seaside County Sanitation District	11-56	1,390	7.0	19.57	2.22	1.36	37	76	0.00	0.00	0.69	68	123	72	0.23	0.13	157	62	0	
		8-2-57	1,340	7.1	21.85	2.22	1.36	37	76	0.00	0.00	0.69	68	123	72	0.23	0.13	157	62	0	
		4-30-59	1,350	7.3	21.85	2.22	1.36	37	76	0.00	0.00	0.69	68	123	72	0.23	0.13	157	62	0	
		8-13-59	1,610	7.3	21.85	2.22	1.36	37	76	0.00	0.00	0.69	68	123	72	0.23	0.13	157	62	0	
		5-20-60	1,500	7.5	21.85	2.22	1.36	37	76	0.00	0.00	0.69	68	123	72	0.23	0.13	157	62	0	
		9-20-60	1,670	--	21.85	2.22	1.36	37	76	0.00	0.00	0.69	68	123	72	0.23	0.13	157	62	0	
		5-23-61	1,420	7.6	21.85	2.22	1.36	37	76	0.00	0.00	0.69	68	123	72	0.23	0.13	157	62	0	
		9-20-61	1,590	7.2	21.85	2.22	1.36	37	76	0.00	0.00	0.69	68	123	72	0.23	0.13	157	62	0	
		11-56	1,170	6.5	17.85	1.79	1.07	18	42	0.00	0.00	0.35	57	116	22	0.28	0.11	165	56	0	
		8-23-57	1,050	7.6	17.85	1.79	1.07	18	42	0.00	0.00	0.35	57	116	22	0.28	0.11	165	56	0	
		1-30-59	1,010	6.8	17.85	1.79	1.07	18	42	0.00	0.00	0.35	57	116	22	0.28	0.11	165	56	0	
		8-11-59	1,070	7.1	17.85	1.79	1.07	18	42	0.00	0.00	0.35	57	116	22	0.28	0.11	165	56	0	
		5-23-60	1,010	7.3	17.85	1.79	1.07	18	42	0.00	0.00	0.35	57	116	22	0.28	0.11	165	56	0	
		9-19-60	1,060	--	17.85	1.79	1.07	18	42	0.00	0.00	0.35	57	116	22	0.28	0.11	165	56	0	
		6	City of Pacific Grove	5-22-61	1,010	7.9	18.85	2.22	1.36	37	76	0.00	0.00	0.69	68	123	72	0.23	0.13	157	62
9-18-61	1,190			7.1	18.85	2.22	1.36	37	76	0.00	0.00	0.69	68	123	72	0.23	0.13	157	62	0	
11-56	1,120			6.9	18.85	2.22	1.36	37	76	0.00	0.00	0.69	68	123	72	0.23	0.13	157	62	0	
8-1-57	991			7.4	18.85	2.22	1.36	37	76	0.00	0.00	0.69	68	123	72	0.23	0.13	157	62	0	
4-30-59	1,080			7.0	18.85	2.22	1.36	37	76	0.00	0.00	0.69	68	123	72	0.23	0.13	157	62	0	
8-13-59	1,070			7.2	18.85	2.22	1.36	37	76	0.00	0.00	0.69	68	123	72	0.23	0.13	157	62	0	
5-19-60	973			7.3	18.85	2.22	1.36	37	76	0.00	0.00	0.69	68	123	72	0.23	0.13	157	62	0	

TABLE 5-1 (continued)

MINERAL ANALYSES OF WASTE WATER

NATIONAL SANITARY ENGINEERING (NO. 1)

Number	Source	Date Sampled	Specific Conductance (micro- mhos at 25°C)	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Per cent sodium	Hardness as CaCO ₃ Total N.C. (ppm)	Remarks			
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)					Phosphate (PO ₄)	Fluoride (F)	Borate (B)
8	City of Salinas (Continued)	2-28-61	1,310	7.3	--	--	1.50 0.52	1.3 0.33	--	--	0 0.00	--	--	1.83 5.25	1.6	0.11	808	--	--		
		4-12-61	1,320	--	--	--	1.14 6.28	--	--	0 0.00	--	--	--	1.89 5.33	--	0.1	813	--	--		
		5-21-61	1,500	7.8	5.6 2.79	3.6 1.88	1.1 0.36	1.1 0.36	1.6 0.42	0.252 0.113	0.130 0.113	0.252 0.113	0.06 0.03	2.11 0.80	0.9 0.15	0.6 0.03	864	56	81		
		9-25-61	1,370	7.7	7.2 3.59	2.2 1.81	1.6 0.96	1.8 0.41	1.0 0.30	0.339 0.336	0.339 0.336	0.339 0.336	0.8 0.20	2.11 0.80	0.6 0.03	0.6 0.03	0.6 0.03	803	50	272	
		11-5-61	1,050	7.2	4.3 2.13	1.9 1.56	1.8 0.70	1.5 0.38	2.1 0.30	3.95 3.95	0.330 0.330	3.95 3.95	0.92 0.28	2.11 0.80	2.1 0.61	0.20 0.03	0.20 0.03	672	53	187	
9	Alisal Sanitary District	7-31-57	890	7.6	4.2 2.10	1.6 1.32	1.6 0.41	1.6 0.41	1.2 0.30	1.2 0.30	1.2 0.30	1.2 0.30	1.2 0.30	1.2 0.30	1.2 0.30	1.2 0.30	532	56	171	66	
		4-30-59	964	7.2	3.2 1.60	2.8 1.35	1.3 0.33	1.3 0.33	1.1 0.61	1.1 0.30	1.1 0.30	1.1 0.30	1.1 0.30	1.1 0.30	1.1 0.30	1.1 0.30	587	17	195	38	
		8-11-59	994	7.5	2.9 1.25	2.7 2.22	1.7 1.09	1.1 0.36	1.2 0.67	0.245 0.385	0.245 0.385	0.245 0.385	0.245 0.385	0.245 0.385	0.245 0.385	0.245 0.385	0.245 0.385	690	52	185	0
		5-18-60	914	7.8	2.5 1.25	2.5 2.05	1.1 0.30	1.1 0.30	1.1 0.30	1.1 0.30	1.1 0.30	1.1 0.30	1.1 0.30	1.1 0.30	1.1 0.30	1.1 0.30	1.1 0.30	--	--	167	0
		9-23-60	906	--	--	--	--	--	--	--	--	--	--	--	--	--	--	527	--	--	
10	California State Prison at Soledad	4-12-61	878	--	--	2.8 1.26	--	--	--	0 0.00	--	--	--	1.15 3.21	1.15	0.1	576	--	--		
		5-21-61	949	7.3	--	2.9 1.26	1.1 0.36	1.1 0.36	1.1 0.36	1.1 0.36	1.1 0.36	1.1 0.36	1.1 0.36	1.1 0.36	1.1 0.36	1.1 0.36	590	--	178	--	
		9-5-61	965	8.1	4.8 2.20	1.1 1.15	1.2 0.36	1.1 0.36	2.0 1.11	0.280 0.459	0.280 0.459	0.280 0.459	0.280 0.459	0.280 0.459	0.280 0.459	0.280 0.459	0.280 0.459	518	49	178	0
		5-19-60	1,240	7.7	4.5 2.21	2.3 1.89	1.2 0.31	1.2 0.31	2.5 1.39	0.304 0.430	0.304 0.430	0.304 0.430	0.304 0.430	0.304 0.430	0.304 0.430	0.304 0.430	0.304 0.430	712	53	205	0
		9-22-60	1,330	7.7	6.0 2.99	2.5 2.05	1.4 0.76	1.2 0.31	2.0 1.11	0.295 0.481	0.295 0.481	0.295 0.481	0.295 0.481	0.295 0.481	0.295 0.481	0.295 0.481	0.295 0.481	730	49	252	10
11	City of Paso Robles	9-22-61	1,080	7.5	5.6 2.79	1.1 1.15	1.2 0.36	1.2 0.36	2.1 1.16	0.272 0.416	0.272 0.416	0.272 0.416	0.272 0.416	0.272 0.416	0.272 0.416	0.272 0.416	629	50	198	0	
		10-3-61	1,755	7.5	4.9 2.44	3.4 2.76	2.1 1.20	1.2 0.32	5.8 3.10	0.555 0.910	0.555 0.910	0.555 0.910	0.555 0.910	0.555 0.910	0.555 0.910	0.555 0.910	1228	70	260	0	
		10-8-58	1,771	7.0	7.2 3.62	4.4 3.59	10.9 10.90	1.0 0.30	2.0 1.09	0.549 0.893	0.549 0.893	0.549 0.893	0.549 0.893	0.549 0.893	0.549 0.893	0.549 0.893	1200	56	360	0	
		10-13-59	2,004	7.2	6.7 3.35	4.1 3.40	12.0 12.0	1.1 0.29	4.0 2.22	0.900 1.483	0.900 1.483	0.900 1.483	0.900 1.483	0.900 1.483	0.900 1.483	0.900 1.483	0.900 1.483	1845	62	338	0
		5-9-60	1,938	7.8	6.1 2.70	3.4 2.80	12.2 12.2	1.1 0.28	2.7 1.49	0.833 1.36	0.833 1.36	0.833 1.36	0.833 1.36	0.833 1.36	0.833 1.36	0.833 1.36	0.833 1.36	1321	63	443	17
9-12-60	1,786	7.3	4.1 3.19	3.9 3.21	10.2 12.18	1.2 0.26	1.0 0.67	0.447 0.732	0.447 0.732	0.447 0.732	0.447 0.732	0.447 0.732	0.447 0.732	0.447 0.732	0.447 0.732	1145	62	320	0		

TABLE C-3 (continued)
MINERAL ANALYSES OF WASTE WATER

CENTRAL COASTAL REGION (NO. 3)

Number	Source	Date Sampled	Specific conductance (micro-mhos or 25°C)	pH	Mineral constituents in equivalents per million										Total dissolved solids (ppm)	Per cent sodium	Hardness on CaCO ₃ (ppm)	Remarks					
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)					Phosphate (PO ₄)	Fluoride (F)	Barium (Ba)	Silica (SiO ₂)	
11	City of Paso Robles (continued)	5-22-61	2,100	7.7	60	52	333	12	12	0	0	515	218	301	18	25	1.6	1.1	62	365	0	0	
					2.98	4.34	14.47	0.31	0.27	0.00	8.15	4.54	8.51	0.29	0.79	0.08	1.19	44	1.248	62	365	0	
					33	34	280	11	3.6	0.00	454	108	240	22	4	1.0	0.93	30	1.044	71	226	0	
					1.67	2.84	12.17	0.29	0.20	0.00	7.45	2.24	6.74	0.05	0.05	0.05	0.93	30	1.044	71	226	0	
					45	35	290	11	5.1	0.00	158	105	247	14	5.1	1.08	0.94	42	1.350	60	298	0	
					2.30	2.85	12.60	0.28	0.24	0.00	7.50	3.05	6.56	0.24	0.07	0.07	0.94	42	1.350	60	298	0	
12	Morro Bay - Cayucos Sanitary District	5-27-58	2,193	7.1	78	105	221	13	1.7	0	662	117	333	29	1.8	1.4	0.70	1.0	43	625	83	Grab	
					3.90	0.80	9.60	0.34	0.37	0.00	10.85	3.36	0.14	0.06	0.06	0.70	1.0	1.431	43	625	83	Grab	
					67	92	191	14	30	0.00	686	95	266	7	9	2.88	0.42	28	1.160	39	546	0	
					3.34	7.58	8.30	0.37	1.65	0.00	11.24	1.98	7.49	0.11	0.28	0.05	0.42	28	1.160	39	546	0	
					62	92	214	11	2.8	0.00	674	108	340	2	20	2.80	0.46	42	1.530	41	533	0	Grab
					3.09	7.56	9.32	0.29	2.27	0.00	11.05	2.25	9.57	0.03	0.59	0.05	0.46	42	1.530	41	533	0	Grab
					57	96	193	11	36	0.00	639	95	298	7	42	2.5	0.80	42	1.420	39	536	12	
					2.85	7.87	8.42	0.29	2.11	0.00	10.48	1.96	8.39	0.12	1.65	0.02	0.80	42	1.420	39	536	12	
					78	124	268	16	34	0.00	715	122	464	13	11	1.0	0.4	33	1.540	41	706	220	
					3.89	10.19	11.22	0.41	1.89	0.00	11.72	2.53	13.08	0.21	1.1	0.05	0.4	33	1.540	41	706	220	
13	City of San Luis Obispo	5-23-61	2,040	7.8	79	112	203	13	29	0	705	145	311	7.1	10	1.0	0.43	38	658	83			
					3.96	9.19	8.75	0.34	1.62	0.00	11.50	3.03	8.77	0.11	0.31	0.05	0.43	38	1.364	38	658	83	
					73	122	260	15	30	0.00	685	147	443	1.7	8	0.6	0.57	40	1.692	42	683	121	
					3.05	10.00	11.30	0.40	1.70	0.00	11.24	3.06	12.47	0.03	0.00	0.03	0.57	40	1.692	42	683	121	
					62	108	255	18	66	0	665	86	418	1.0	6.1	0.73	0.76	30	1.685	41	545	54	
					3.12	8.86	11.10	0.45	3.67	0.00	10.90	1.81	11.77	0.01	0.01	0.01	0.76	30	1.685	41	545	54	
					24	43	137	16	8.8	0.00	317	89	146	13	3.5	1.0	0.69	20	760	56	235	0	
					1.26	3.50	5.95	0.41	0.8	0.00	5.20	1.85	4.17	0.21	0.21	0.05	0.69	20	760	56	235	0	
					34	36	108	13	21	0.00	337	82	137	8.6	21	1.2	0.4	42	798	43	235	0	
					1.70	3.01	4.70	0.33	1.19	0.00	5.52	1.71	3.85	0.14	0.14	0.06	0.4	42	798	43	235	0	
14	Vandenberg Air Force Base	5-9-60	1,392	7.5	28	26	179	15	30	0	313	95	140	15	1.52	2.0	1.2	59	169	19			
					1.11	2.27	7.86	0.39	1.65	0.00	3.11	3.91	5.42	0.25	1.52	0.18	1.2	33	838	59	169	19	
					40	30	143	11	50	0	313	95	140	1.02	0.02	0.02	1.2	18	211	0			
					1.43	3.30	5.50	0.34	1.90	0.00	6.05	2.41	4.21	0.05	0.05	0.03	1.2	18	211	0			
					58	41	177	13	34	0	369	115	149	3.2	7	0.6	0.45	26	506	44	237	0	
					2.50	3.04	4.87	0.37	1.44	0.00	5.95	2.76	3.42	0.03	0.03	0.09	0.45	26	506	44	237	0	
					29	39	150	13	0.68	0.00	318	105	155	0.00	0.00	0.03	0.4	9	700	57	232	0	
					1.45	3.18	6.50	0.33	0.68	0.00	5.22	2.05	4.36	0.00	0.00	0.03	0.4	9	700	57	232	0	
					6	46	143	19	32	0	364	94	187	6	38	3.2	0.8	24	890	45	274	0	
					3.77	3.77	6.19	0.47	1.73	0.00	5.96	1.97	5.29	0.10	1.21	0.17	0.8	24	890	45	274	0	

TABLE C-3 (continued)
MINERAL ANALYSES OF WASTE WATER
 CENTRAL URBAN REGION (NO. 3)

Number	Source	Date Sampled	Specific conductance (micro-mhos/cm at 25°C)	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Per cent sodium	Hardness as CaCO ₃ Total (ppm)	N C (ppm)	Remarks			
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)						Phosphate (PO ₄)	Fluoride (F)	Boron (B)
15	City of Santa Maria	8-15-56	1,940	7.7	100 4.95	71 3.81	255 11.10	17 0.44	26 1.47	0 0.00	742 34.16	161 7.32	0 0.00	0 0.28	0 0.00	0.2 0.01	32	51	940	0		
		10-9-57	2,654	7.2	135 6.76	81 3.94	308 13.40	20 0.92	20 1.10	0 0.00	427 19.95	355 16.00	0 0.00	4.0 0.00	0 0.00	0.47 0.03	33	50	670	320		
		10-8-58	2,104	7.0	126 6.28	79 3.90	209 9.10	19 0.47	23 1.25	0 0.00	426 19.98	205 9.77	0 0.00	19 0.70	0 0.00	1.0 0.05	50	39	639	290		
		10-15-59	2,435	7.2	147 7.31	72 3.50	237 10.30	22 0.95	50 2.79	0 0.00	707 31.98	337 15.78	0 0.00	0 0.00	0 0.00	1.6 0.08	--	38	83	662	83	
		5-10-60	2,600	7.2	145 7.26	81 3.70	274 11.90	19 0.83	42 2.35	0 0.00	522 23.96	340 15.97	0 0.00	0 0.00	0 0.00	2.1 0.11	58	42	698	270		
		9-14-60	2,370	6.8	163 8.13	101 4.80	244 10.61	26 0.67	16 0.88	0 0.00	471 21.92	283 13.12	4.5 0.07	4.5 0.07	0 0.00	0.7 0.04	32	37	820	434		
		11-22-60	2,222	8.1	155 8.25	72 3.90	206 9.95	14 0.36	--	0 0.00	473 21.95	207 9.83	10 0.16	29 0.00	0 0.00	1.4 0.07	32	38	708	320	Crab	
		5-23-61	2,600	7.0	163 8.13	95 4.78	260 11.30	19 0.50	24 1.33	0 0.00	382 17.27	321 14.64	0 0.00	0 0.00	0 0.00	0.7 0.04	34	39	795	482		
		9-12-61	1,810	7.9	83 4.10	68 3.14	200 8.70	16 0.42	16 0.88	0 0.00	369 16.65	310 14.75	7.3 0.12	6 0.00	0 0.00	0.3 0.02	41	46	490	187		
		5-21-62	2,826	7.1	112 5.62	100 4.80	368 16.00	20 0.52	47 2.62	0 0.00	480 21.95	427 19.82	0 0.00	75 0.00	0 0.00	0.5 0.03	--	49	393	298		
		10-9-57	2,901	7.3	137 6.84	107 4.80	317 13.80	20 0.51	60 3.20	0 0.00	409 18.60	455 20.82	22 0.35	7.3 0.00	0 0.00	0.8 0.04	37	45	782	447		
		5-1-58	2,624	7.3	125 6.25	68 3.14	340 14.78	38 0.96	2.6 0.14	0 0.00	451 20.50	460 21.56	4.7 0.00	25 0.00	0 0.00	0.1 0.01	33	53	640	370		
		10-8-58	2,688	7.0	116 5.78	55 2.47	220 9.90	17 0.44	17 0.95	0 0.00	408 18.48	439 20.37	8.8 0.15	31 0.00	0 0.00	0.8 0.04	64	49	662	254		
		10-15-59	3,786	7.3	156 7.76	99 4.47	437 19.10	27 0.70	69 3.83	0 0.00	1,006 46.48	703 31.90	0 0.00	47 0.00	0 0.00	0.72 0.04	--	48	2,305	48	0	
		5-9-60	3,592	7.7	156 7.74	81 3.74	455 19.28	16 0.42	50 2.79	0 0.00	642 29.51	463 21.28	0 0.00	51 0.00	0 0.00	3.6 0.19	35	53	724	197		
9-14-60	3,584	7.7	168 8.06	98 4.47	515 22.40	18 0.46	26 1.45	0 0.00	583 26.50	463 21.04	13 0.21	8 0.00	0 0.00	0.7 0.04	52	55	820	342				
5-24-61	3,900	7.8	141 7.04	108 4.92	600 26.10	16 0.42	33 1.83	0 0.00	278 12.64	832 38.44	1.4 0.02	5.6 0.18	0 0.00	1.2 0.06	48	59	798	323				
9-13-61	4,200	7.8	120 6.00	116 5.47	642 27.90	19 0.50	11 0.60	0 0.00	598 27.15	494 22.30	0 0.00	13 0.00	0 0.00	0.4 0.02	50	63	774	316				
5-23-62	4,390	7.0	177 8.04	97 4.47	690 30.00	19 0.50	25 1.39	0 0.00	506 22.90	446 20.14	15 0.25	12 0.00	0 0.00	2.3 0.12	22	62	415	427				
8-14-56	3,660	7.6	69 3.44	94 4.27	710 30.85	30 0.77	4.3 0.24	0 0.00	538 24.32	367 16.61	0 0.00	0 0.00	0 0.00	0.5 0.02	26	74	555	114	Crab			

TABLE C-3 (continued)
MINERAL ANALYSES OF WASTE WATER
 CENTRAL COASTAL REGION (NO. 3)

Number	Source	Date Sampled	Specific conductance (micro-mhos at 25°C)	pH	Mineral constituents in parts per million												Total dissolved solids (ppm)	Per cent sodium	Hardness as CaCO ₃		Remarks		
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Phosphate (PO ₄)	Fluoride (F)			Boron (B)	Silica (SiO ₂)		Total	N.C.
17	Goleta Sanitary District (continued)	5-1-58	3,064	8.2	87	74	460	10	26	0	583	376	365	0.59	7	0.11	2.9	33	2,014	62	523	90	
		10-16-59	1,615	7.0	55	47	207	17	40	0	363	733	1573	0.01	0.22	0.01	0.98	0	995	46	330	44	Grab
		5-9-60	2,117	7.5	88	47	265	20	32	0	466	675	886	0	36	0.5	1.7	24	1,466	52	416	67	Grab
		9-12-60	1,040	7.0	52	61	203	19	0.24	0	345	282	250	0	13	0.4	2.3	10	1,120	49	372	89	Grab
		5-22-61	1,560	7.1	53	57	169	16	20	0	273	255	211	0	25	1.7	1.3	22	1,006	44	367	142	Grab
		9-11-61	1,625	7.3	67	51	188	16	26	0	354	449	594	0	17	0.6	1.5	26	1,152	49	388	119	Grab
		5-21-62	1,245	7.1	64	46	193	15	0	0	273	122	224	1	67	0.19	1.0	20	940	53	224	127	Grab
		8-15-56	2,660	7.6	90	73	395	22	20	0	216	450	505	0	1	0.7	1.0	21	1,732	62	525	378	
		10-9-57	3,200	6.9	88	71	446	20	36	0	482	309	590	0	4.8	0.54	1.20	31	2,005	66	510	115	
		5-8-58	1,860	7.7	94	63	311	13	19	0	503	228	398	7.7	13	1.0	0.31	23	1,218	54	515	103	
		10-8-58	2,388	6.7	80	55	308	18	23	0	414	382	1076	0.00	16	1.0	0.9	19	1,640	55	469	130	
		10-15-59	3,281	7.0	114	74	437	27	30	0	393	362	635	0	45	0.93	1.2	--	2,105	57	599	276	
		5-16-60	3,498	9.1	93	78	451	16	37	18	393	371	666	0	47	0.8	0.74	23	2,272	63	563	241	
		9-21-60	3,115	7.1	89	65	406	22	--	0	379	349	772	0	9.2	0.8	1.6	16	1,462	67	599	149	
		5-24-61	2,900	7.2	63	72	418	20	29	0	476	392	354	0	4.5	0.8	1.05	27	1,476	62	424	136	
		9-13-61	3,200	6.9	68	77	223	24	5.4	0	476	325	64	13	7	0.8	0.76	33	2,114	68	424	94	
		8-14-56	2,720	7.4	94	84	425	20	9.5	0	545	244	563	0	0.2	0.8	1.0	26	1,028	61	582	137	
10-15-57	2,315	7.5	88	60	304	15	4.8	0	397	209	418	13	2.25	0.84	0	29	1,500	59	465	140			
5-7-58	2,306	7.2	124	71	350	22	41	0	470	359	460	0	25	1.6	0.44	8	1,516	51	600	215			
10-30-59	3,467	7.4	114	70	511	25	14	0	497	303	774	3	16	0.70	0.72	27	2,150	62	606	159			

TABLE C-3 (continued)
MINERAL ANALYSES OF WASTE WATER
 CENTRAL COASTAL REGION (NO. 3)

Number	Sources	Date Sampled	Specific Conductance (micro-mhos at 25°C)	pH	Mineral constituents in parts per million equivalents per million											Total dissolved solids (ppm)	Per cent sodium	Hardness of CaCO ₃		Remarks				
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Phosphate (PO ₄)			Fluoride (F)	Boron (B)		Silica (SiO ₂)	Total (ppm)	N.C.	
19	Carpinteria Sanitary District (continued)	5-16-60	4,476	7.9	96	112	695	28	2.4	0	579	344	1,004	7	30	3.1	0.42	21	698	67	224			
						4,380	5,116	29,180	0.72	0.75	0.00	9,482	7,116	287,444	0.12	0.95	0.16							
		9-21-60	2,890	7.7	91	66	432	23	0.28	0	534	193	566	11	8.8	0.6	0.9	17	500	64	64			
						4,577	5,443	18,180	0.59	0.00	0.00	8,775	4,102	15,996	0.17		0.03							
		5-24-61	3,120	7.8	88	86	485	23	2.3	0	571	371	694	7.3	2.5	1.3	0.84	33	573	65	121			
				4,330	7,077	21,110	0.61	1.27	0.00	9,704	7,350	17,611	0.12	0.30	0.07									
9-13-61	1,340	7.7	51	66	143	17	3.6	0	246	267	136	50	8	0.6	0.6	0.48	43	396	42	194				
				2,577	5,335	6,280	0.45	0.20	0.00	4,093	5,556	3,702	0.88		0.03									
5-23-62	2,768	7.4	144	36	451	23	1.40	0	469	305	915	1	40	2.57	0.74	21		1,965	64	384	126			
				7,280	3,700	19,660	0.70	0.00	0.00	7,683	6,335	14,570	0.02		0.15									

TABLE C-4
MINERAL ANALYSES OF WASTE WATER

LOS ANGELES REGION (NO. 4)

Number	Source	Date Sampled	Specific conductance (micro-mhos at 25°C)	pH	Mineral constituents in parts per million equivalents per million								Total dissolved solids (ppm)		Hardness as CaCO ₃ (ppm)	Remarks						
					Calcium (Ca) (Mg)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄) (Cl)	Nitrate (NO ₃)	Phosphate (PO ₄)			Fluoride (F)	Bromide (Br) (SiO ₂)	Total	N C		
1	City of Ojai	11-16-55	--	7.2	103	40	270	15	22	--	--	191	422	1.8	--	1.2	1.8	436	--	8 hr. Composite		
		5-17-56	--	7.2	116	40	216	15	21	--	--	236	356	19	--	0.6	0.8	455	--	8 hr. Composite		
		11-14-56	--	7.3	110	43	245	15	27	--	--	220	416	3.1	--	1.0	0.9	454	--	8 hr. composite		
		5-15-57	--	7.2	101	49	252	10	27	--	--	211	392	1.3	--	0.20	0.92	452	--	8 hr. Composite		
		11-26-57	--	7.1	108	51	224	12	24	--	--	275	374	2.7	--	0.8	1.2	480	--	8 hr. Composite		
		5-14-58	--	7.7	124	42	154	6	13	--	--	270	210	2.8	--	1.2	0.8	480	--	8 hr. Composite		
		11-12-58	--	7.4	114	41	220	14	34	--	--	211	350	0	--	0.8	0.9	455	--	8 hr. Composite		
		5-19-59	--	8.0	122	45	260	13	12	--	--	294	411	16	--	2.4	1.5	490	--	8 hr. Composite		
		11-4-59	--	7.3	120	38	244	16	9.7	--	--	247	396	32	--	0.5	2.8	455	--	8 hr. Composite		
		4-12-60	--	7.6	90	57	216	14	11	--	--	231	339	27	--	0.6	0.8	460	--	8 hr. Composite		
		10-9-60	--	7.4	84	54	200	14	9.7	--	--	225	270	20	--	1.6	1.1	430	--	8 hr. Composite		
		10-16-61	--	7.5	102	52	200	10	11	--	--	245	312	40	--	0.6	1.3	470	--	8 hr. Composite		
		11-16-55	City of Santa Paula	11-16-55	--	7.5	172	47	245	14	20	--	--	160	280	1.1	--	0.9	0.30	665	--	8 hr. Composite
		11-14-56		11-14-56	--	7.7	149	50	295	13	18	--	--	423	362	12	--	1.2	1.1	580	--	8 hr. Composite
5-15-57	5-15-57	--		7.8	91	55	280	14	21	--	--	364	272	10	--	0.20	0.73	456	--	9 hr. Composite		
11-26-57	11-26-57	--		7.5	112	68	236	12	24	--	--	435	214	12	--	0.5	2.1	560	--	8 hr. Composite		
5-14-58	5-14-58	--		7.9	110	55	272	12	21	--	--	460	250	8.0	--	2.6	1.3	500	--	8 hr. Composite		
11-12-58	11-12-58	--		7.4	142	48	312	14	18	--	--	394	295	0	--	1.0	5.8	555	--	7 hr. Composite		
5-19-59	5-19-59	--		8.3	124	51	350	16	13	--	--	438	290	18	--	1.2	2.0	518	--	8 hr. Composite		
11-4-59	11-4-59	--		8.0	126	43	252	18	24	--	--	400	232	17	--	1.4	1.0	490	--	8 hr. Composite		

TABLE C-4 (continued)
MINERAL ANALYSES OF WASTE WATER
 LOS ANGELES REGION (NO. 4)

Number	Source	Date Sampled	Specific conductivity (micro-mhos at 25°C)	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Per cent sodium	Hardness of CaCO ₃		Remarks			
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)			Fluoride (F)	Barium (B)		Silica (SiO ₂)	Total (ppm)	NC (ppm)
2	City of Santa Paula (Continued)	4-12-60	--	7.9	84	71	316	16	26	--	--	354	245	11	--	1.2	1.0	--	57	500	--	8 hr. Composite
		10-19-60	--	8.1	134	59	244	34	11	--	--	445	225	20	--	2.4	1.0	--	47	575	--	8 hr. Composite
		10-16-61	--	7.6	100	71	210	9	9.7	--	--	424	170	44	--	1.2	1.7	--	--	540	--	
		11-16-55	--	7.3	144	29	370	26	33	--	--	403	188	1.1	--	1.6	0.75	--	69	228	--	18 hr. Composite
		5-17-56	--	7.0	56	49	312	26	42	--	--	400	180	0.89	--	2.2	1.9	--	67	304	--	1 1/2 hr. Composite
		11-14-56	--	7.4	66	43	430	25	36	--	--	520	264	0.35	--	1.8	1.1	--	71	344	--	1 1/4 hr. Composite
		5-15-57	--	7.2	42	44	400	29	21	--	--	555	244	0	--	1.5	1.8	--	73	288	--	1 1/4 hr. Composite
		11-26-57	--	7.4	46	49	500	20	35	--	--	499	370	0	--	0.8	1.9	--	76	315	--	1 1/4 hr. Composite
		5-14-58	--	7.4	56	61	344	20	27	--	--	327	308	0	--	1.9	1.2	--	64	390	--	1 1/4 hr. Composite
		11-12-58	--	7.2	70	35	348	22	30	--	--	348	255	0	--	1.6	1.7	--	68	320	--	1 1/4 hr. Composite
4	City of Ventura Eastside Plant	5-19-59	--	8.1	66	43	450	30	36	--	--	479	359	0	--	2.0	1.9	--	72	340	--	15 hr. Composite
		11-4-59	--	7.3	64	33	390	29	28	--	--	335	312	0	--	1.5	1.2	--	72	294	--	8 hr. Composite
		4-12-60	--	7.5	62	69	530	25	31	--	--	543	410	0	--	0.9	2.1	--	73	435	--	8 hr. Composite
		10-19-60	--	7.1	26	39	415	20	23	--	--	395	265	0	--	1.6	2.0	--	82	175	--	8 hr. Composite
5	City of Oxnard	10-16-61	--	7.4	84	46	410	17	27	--	--	501	318	2.7	--	2.0	1.8	--	--	400	--	
		10-16-61	--	7.8	90	54	350	17	7.7	--	--	538	260	2.9	--	0.6	1.7	--	1,611	445	--	
		11-16-55	--	7.3	148	57	200	14	9	--	--	456	202	14	--	1.2	0.60	--	40	606	--	15 hr. Composite
		5-17-56	--	6.8	164	56	240	17	21	--	--	505	230	8.4	--	0.8	0.8	--	44	642	--	1.6 hr. Composite
		11-14-56	--	7.5	144	58	265	14	27	--	--	490	260	0.65	--	1.4	1.3	--	49	600	--	
		5-15-57	--	7.5	136	72	265	14	26	--	--	536	256	0	--	0.90	1.1	--	47	636	--	

TABLE 6-b (continued)
MINERAL ANALYSES OF WASTE WATER

LOW AQUEOUS PHOSPHOR (10, 4)

Number	Source	Date Sampled	Specific conductivity (micro-mhos at 25°C)	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Per cent N.C. (ppm)	Hardness as CaCO ₃ (ppm)	Remarks					
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)					Phosphate (PO ₄)	Fluoride (F)	Barium Silico (B) (SiO ₂)		
5	City of Oxnard	11-26-57	--	7.4	132	74	252	14	39	--	--	518	276	0	--	0.8	1.4	--	46	635	--	--	
		5-14-58	--	7.9	124	73	280	12	27	--	--	560	235	0	--	1.2	0.9	--	49	610	--	--	
		11-12-58	--	7.5	146	61	280	17	50	--	--	470	290	0	--	1.0	1.5	--	49	620	--	1.6 hr. Composite	
		5-19-59	--	8.0	164	78	324	17	31	--	--	666	345	0	--	--	1.2	--	43	728	--	--	
		11-4-59	--	7.3	160	67	280	18	36	--	--	575	294	0	--	0.7	1.1	--	47	675	--	8 hr. Composite	
		4-12-60	--	8.0	170	78	320	16	37	--	--	597	360	0	--	0.6	1.4	--	43	745	--	8 hr. Composite	
		11-23-60	--	7.7	148	72	328	16	36	--	--	533	260	0	--	0.8	0.75	--	51	665	--	1.8 hr. Composite	
		10-16-61	--	7.5	150	65	290	11	29	--	--	517	306	3.5	--	0.8	1.4	--	--	640	--	--	8 hr. Composite
		11-16-55	--	7.8	120	44	225	16	20	--	--	350	164	0.44	--	0.4	0.75	--	47	482	--	8 hr. Composite	
		5-17-56	--	7.3	180	29	243	17	51	--	--	645	204	2.2	--	1.0	1.3	--	44	670	--	8 hr. Composite	
		11-24-56	--	7.8	172	66	245	14	41	--	--	640	236	0.22	--	1.0	1.6	--	43	702	--	8 hr. Composite	
		5-15-57	--	7.3	158	30	240	9	18	--	--	552	164	0.89	--	0.50	1.0	--	50	516	--	8 hr. Composite	
		11-26-57	--	5.8	150	55	272	8	19	--	--	720	192	0	--	0.3	3.4	--	49	600	--	1.0 hr. Composite	
		5-14-58	--	6.6	130	44	248	8	21	--	--	603	170	0	--	1.0	2.6	--	49	505	--	8 hr. Composite	
		11-12-58	--	6.9	126	42	200	12	14	--	--	358	130	0	--	0.8	2.9	--	44	490	--	8 hr. Composite	
5-10-59	--	8.1	146	50	290	14	24	--	--	632	215	0	--	1.0	2.8	--	52	570	--	8 hr. Composite			
11-4-59	--	6.5	180	38	244	12	27	--	--	713	236	0	--	0.5	2.1	--	44	660	--	8 hr. Composite			
4-12-60	--	6.8	180	67	280	12	28	--	--	592	325	0	--	0.8	1.4	--	45	725	--	8 hr. Composite			
10-19-60	--	7.4	180	60	268	12	27	--	--	603	270	0	--	1.2	1.0	--	45	695	--	8 hr. Composite			
10-16-61	--	7.4	152	63	250	9.0	34	--	--	556	292	1.6	--	1.0	1.5	--	--	660	--	--	8 hr. Composite		

TABLE C-4 (continued)
MINERAL ANALYSES OF WASTE WATER

LOS ANGELES REGION (NO. 4)

Number	Source	Date Sampled	Specific conductivity (micro-mhos or 25°C)	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Percent solids (ppm)	Hardness as CaCO ₃ (ppm)	Remarks						
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)					Phosphate (PO ₄)	Fluoride (F)	Boron (B)	Silica (SiO ₂)		
7	U.S. Naval Construction Battalion Center Port Hueneeme	8-14-56	3,430	8.0	133 6.65	9.29	600 26.10	6.8 0.17	20 1.12	0	0.00	500 8.20	10.05	532 15.00	0	0.1	0.4 0.02	1.2 0.28	2,376 62	797	--	--	--	
8	Camarillo Sanitary District	11-12-58	--	7.3	120	44	292	17	5.1	--	--	250	354	350	0	--	1.0	0.9	1,500	480	--	--	8 hr. Composite	
		5-19-59	--	8.3	112	59	296	17	0.26	--	--	--	370	364	311	--	3.6	1.3	--	54	520	--	--	9 hr. Composite
		11-4-59	--	7.5	124	35	390	20	14	--	--	--	312	470	0	--	0.3	1.0	1,690	63	452	--	--	8 hr. Composite
		4-12-60	--	8.2	98	45	400	20	13	--	--	--	376	455	1.5	--	0.4	1.0	--	66	430	--	--	8 hr. Composite
		10-19-60	--	7.8	106	53	340	18	31	--	--	--	412	330	0	--	1.2	0.7	--	60	480	--	--	8 hr. Composite
		10-3-61	--	7.9	102	49	335	14	35	--	--	--	440	280	0	--	0.3	1.5	--	--	460	--	--	--
9	City of Los Angeles Hyperion Plant	11-9-55	--	7.4	16	24	210	18	19	--	--	--	119	246	17	--	1.2	0.78	--	61	213	--	--	--
		5-16-56	--	7.9	44	27	212	18	28	--	--	--	165	234	1.6	--	1.5	1.1	--	65	220	--	--	--
		11-15-56	--	7.3	53	25	210	16	23	--	--	--	184	244	0.44	--	1.4	0.2	--	64	234	--	--	--
		5-9-57	--	7.6	47	27	212	19	32	--	--	--	157	230	0	--	0.60	0.75	--	65	289	--	--	--
		11-20-57	--	7.4	63	7	212	12	27	--	--	--	120	234	0	--	1.0	1.4	--	70	186	--	--	--
		5-15-58	--	7.7	66	22	200	16	19	--	--	--	192	215	0	--	1.8	1.2	--	61	255	--	--	--
		11-19-58	--	7.2	46	23	208	17	23	--	--	--	143	230	0	--	1.6	1.1	--	66	210	--	--	--
		5-19-59	--	7.4	62	11	240	17	21	--	--	--	210	222	0	--	1.2	1.0	--	66	250	--	--	--
		10-22-59	--	7.8	50	23	176	17	24	--	--	--	164	228	2.5	--	1.2	1.3	--	61	220	--	--	--
		4-6-60	--	7.6	40	28	176	15	27	--	--	--	170	190	0	--	1.2	1.2	--	62	215	--	--	1 Mile Outfall
		4-6-60	--	7.6	40	24	180	15	25	--	--	--	159	170	0	--	1.2	1.2	--	64	200	--	--	5 Mile Outfall
		10-19-60	--	7.6	72	26	240	16	31	--	--	--	98	345	0	--	1.0	1.0	--	63	285	--	--	5 Mile Outfall
		11-2-60	--	7.5	54	28	182	14	1	--	--	--	184	175	6	--	1.0	0.9	--	60	250	--	--	1 Mile Outfall
		9-26-61	--	7.1	48	31	210	16	21.7	--	--	--	158	274	2.2	--	0.9	1.2	--	--	245	--	--	1 Mile Outfall

TABLE C-4 (continued)
MINERAL ANALYSES OF WASTE WATER
 LOS ANGELES REGION (NO. 4)

Number	Source	Date Sampled	Specific conductance (micro-mhos of 25°C)	pH	Mineral constituents in parts per million equivalents per million										Total dissolved solids (ppm)	Percent sodium (ppm)	Hardness as CaCO ₃ (ppm)	Remarks							
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)					Phosphate (PO ₄)	Fluoride (F)	Boron (B)	Silica (SiO ₂)			
10	City of Los Angeles Terminal Island Plant	11-9-55	--	7.3	103	28	620	33	26	--	--	--	165	965	0	--	1.0	2.0	--	71	387	--	16 hr. composite		
		5-16-56	--	7.5	65	69	37	60	60	--	--	--	283	1,040	1.5	--	1.5	1.9	--	76	430	--	16 hr. composite		
		11-15-56	--	7.3	72	75	770	30	34	--	--	--	448	1,120	0.66	--	1.2	1.7	--	76	488	--	12 hr. composite		
		5-9-57	--	7.3	66	69	710	34	41	--	--	--	304	1,070	0	--	0.20	1.9	--	76	448	--	12 hr. composite		
		11-20-57	--	7.2	52	85	770	25	41	--	--	--	257	1,230	0	--	0.4	2.5	--	77	480	--	16 hr. composite		
		5-15-58	--	7.3	80	78	720	30	37	--	--	--	348	1,140	0	--	1.0	1.0	--	75	520	--	16 hr. composite		
		11-19-58	--	7.0	58	82	780	36	40	--	--	--	268	1,200	0	--	1.2	1.7	--	76	485	--	16 hr. composite		
		5-19-59	--	8.1	108	114	1,210	42	35	--	--	--	525	1,810	0	--	1.2	1.8	--	76	736	--	12 hr. composite		
		10-22-59	--	6.8	78	86	800	41	41	--	--	--	277	1,338	0	--	0.8	2.2	--	74	598	--	12 hr. composite		
		4-6-60	--	7.3	60	53	550	22	37	--	--	--	360	715	0	--	0.9	1.7	--	74	395	--	12 hr. composite		
		11-2-60	--	7.3	61	61	560	20	36	--	--	--	369	780	0	--	1.5	1.2	--	74	400	--	8 hr. composite		
		9-26-61	--	7.0	80	74	725	28	33	--	--	--	382	1,068	4.0	--	0.9	1.7	--	--	504	--	--	--	
		11	County Sanitation Districts of Los Angeles County Joint Disposal Plant	11-9-55	--	7.3	143	59	520	27	30	--	--	--	318	900	0	--	1.4	1.6	--	60	599	--	--
				5-16-56	--	7.6	103	47	440	26	31	--	--	--	269	680	1.3	--	4.0	1.5	--	66	482	--	--
11-15-56	--			7.4	133	56	520	21	33	--	--	--	283	970	4.4	--	1.8	1.5	--	68	562	--	--		
5-9-57	--			7.3	116	43	440	23	29	--	--	--	271	660	0	--	2.4	1.1	--	65	485	--	--		
11-20-57	--			7.4	80	44	450	20	35	--	--	--	220	630	0	--	0.3	2.0	--	71	360	--	--		
5-15-58	--			7.6	94	44	420	20	32	--	--	--	219	595	0	--	1.6	1.8	--	68	405	--	--		
11-19-58	--			7.2	82	36	415	24	41	--	--	--	217	545	0	--	4.8	1.4	--	70	395	--	--		
5-19-59	--	7.2	113	32	460	21	25	--	--	--	218	564	0	--	1.0	1.5	--	66	442	--	--				

TABLE 6-b (continued)
MINERAL ANALYSES OF WASTE WATER
 LOS ANGELES REGION (10, b)

Number	Source	Date Sampled	Specific conduc- tance (micro- mhos at 25°C)	pH	Mineral constituents in parts per million										Total dis- solved solids (ppm)	Per cent so- dium	Hardness as CaCO ₃		Remarks				
					Calcium (Ca)	Magne- sium (Mg)	Sodium (Na)	Potas- sium (K)	Ammon- ium (NH ₄)	Carbon- ate (CO ₃)	Bicar- bonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Ni- trate (NO ₃)			Phos- phate (PO ₄)	Flu- oride (F)		Borax Silico (B) (SiO ₂)	Total (ppm)	NC (ppm)	
11	County Sanitation Districts of Los Angeles County Joint Disposal Plant (continued)	10-22-59	--	6.8	100	40	345	21	30	--	--	234	540	0	--	5.0	1.5	412	--	63	--	--	
		4-6-60	--	7.6	82	39	395	21	34	--	--	259	520	0	--	1.4	1.5	365	--	69	--	--	
		11-2-60	--	7.4	86	46	360	16	22	--	--	215	520	0	--	2.0	1.0	310	--	65	--	--	
		5-2-61	--	7.5	110	39	370	18	25	--	--	259	510	0	--	2.0	1.6	435	--	64	--	--	
		9-26-61	--	7.0	86	40	330	16	33	--	--	238	474	2.2	--	2.7	1.5	360	--	--	--	30 day composite	
		11-10-57	--	7.5	--	--	--	--	--	--	--	28	19	16	--	--	--	--	524	--	--	--	30 day composite
12	County Sanitation Districts of Los Angeles County Lucky Lager Plant	3-29-59	--	7.4	--	--	--	--	--	--	24	160	0.0	--	0.20	0.30	--	716	--	--	--	30 day composite	
		7-19-59	--	5.8	--	--	--	--	--	--	29	0.0	Trace	--	0.16	0.00	--	484	--	--	--	31 day composite	
		11-9-55	--	7.2	50	17	66	13	0	--	--	45	50	4.7	--	0.4	0.40	--	140	--	140	--	8 hr. composite
		5-16-56	--	7.3	38	24	76	14	7	--	--	87	70	4.7	--	0.3	0.0	--	144	--	144	--	8 hr. composite
		11-15-56	--	7.1	47	25	68	31	19	--	--	90	54	34	--	1.2	0.4	--	34	--	34	--	5 hr. composite
		5-9-57	--	7.1	45	25	67	13	14	--	--	55	54	24	--	0.20	0.4	--	38	--	38	--	5 hr. composite
13	County Sanitation Districts of Los Angeles County Alameda Plant	7-10-57	735	7.3	39	28	63	13	3.6	0	253	62	36	36	0.4	0.16	--	518	--	--	--	Grab	
		11-20-57	--	7.2	63	15	60	30	26	--	--	55	82	36	--	0.5	0.50	--	--	--	36	--	8 hr. composite
		5-20-58	--	7.2	46	29	54	34	21	--	--	64	53	15	--	1.4	0.4	--	--	--	30	--	8 hr. composite
		11-19-58	--	7.3	52	21	71	38	28	--	--	42	60	0	--	0.6	0.4	--	--	--	36	--	8 hr. composite
		5-19-59	--	8.3	--	--	64	38	13	--	--	58	51	9.7	--	--	0.4	--	--	--	38	--	8 hr. composite
		10-22-59	--	7.3	50	22	65	35	19	--	--	54	22	39	--	0.4	0.5	--	--	--	35	--	8 hr. composite
14	County Sanitation Districts of Los Angeles County Alameda Plant	4-6-60	--	7.6	40	27	58	29	21	--	--	53	55	30	--	0.4	0.6	--	--	--	34	--	8 hr. composite
		11-2-60	--	7.4	42	32	57	33	9	--	--	65	45	12	--	1.0	0.5	--	--	--	31	--	8 hr. composite
		9-26-61	--	7.5	63	28	78	31	19	--	--	69	54	0.9	--	0.5	0.8	--	--	--	270	--	--
			--	7.5	63	28	78	31	19	--	--	69	54	0.9	--	0.5	0.8	--	--	--	270	--	--

TABLE C-4 (continued)
MINERAL ANALYSES OF WASTE WATER

LOS ANGELES REGION (HO. 4)

Number	Source	Date Sampled	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Per cent sodium	Hardness as CaCO ₃		Remarks				
				Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)			Phosphate (PO ₄)	Fluoride (F)		Silica (SiO ₂)	Total (ppm)	N.C.	
14	County Sanitation Districts of Los Angeles County Pomona Plant	11-9-55	7.5	15	18	104	14	28	--	--	38	109	0	--	0.5	0.40	--	44	186	--	8 hr. composite	
		5-16-56	7.5	45	24	115	14.8	15	--	--	20	134	5.0	--	0.9	1.0	--	53	208	--	8 hr. composite	
		5-19-57	7.4	51	21	110	15	35	--	--	51	142	0	--	0.30	0.98	--	51	214	--	8 hr. composite	
		11-20-57	7.4	55	15	120	12	36	--	--	54	159	0	--	0.4	0.90	--	55	200	--	8 hr. composite	
		5-15-58	7.4	56	13	114	12	21	--	--	67	135	3.1	--	1.5	2.2	--	54	195	--	8 hr. composite	
		11-19-58	7.4	62	18	140	15	39	--	--	60	145	0	--	0.6	0.8	--	55	230	--	8 hr. composite	
		5-19-59	8.1	47	14	88	14	22	--	--	58	107	4.0	--	0.6	0.6	--	50	175	--	12 hr. composite	
		10-22-55	7.5	54	16	88	16	36	--	--	58	98	0	--	0.9	0.8	--	47	200	--	8 hr. composite	
		4-6-60	7.8	44	21	118	12	24	--	--	57	145	0	--	0.6	0.9	--	55	195	--	8 hr. composite	
		11-2-60	7.2	56	15	100	11	22	--	--	64	125	1.3	--	0.5	0.7	--	50	200	--	8 hr. composite	
		9-26-61	7.7	58	11	114	11	27	--	--	69	118	0.44	--	0.6	1.0	--	--	150	--	--	8 hr. composite

TABLE C-5
MINERAL ANALYSES OF WASTE WATER
CENTRAL VALLEY REGION (PG. 5)

Number	Source	Date Sampled	Specific conductivity (micro-mhos or 25°C)	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Per cent sodium	Hardness as CaCO ₃		Remarks			
					Calcium (Ca)	Magnesium (Mg)	Sodium plus (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)			Phosphate (PO ₄)	Fluoride (F)		Barium (B)	Silica (SiO ₂)	Total (ppm)
1	City of Redding	6-20-56	441	7.2	11	7.8	37	7.3	22	0	181	23	21	0.50	16	--	0.37	21	59	0		
					0.55	0.81	1.61	0.19	1.23	0.00	3.02	0.88	0.01	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		7-10-57	375	6.5	11	8.9	32	7.2	19	0	168	21	0.2	5.6	0.8	0.8	0.21	22	61	0		
					0.55	0.73	1.39	0.18	1.05	0.00	2.75	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		6-8-60	444	7.3	15	6.9	36	7.4	20	0	181	17	25	11	19	0.2	0.2	28	66	0		
					0.75	0.57	1.57	0.19	1.11	0.00	2.97	0.35	0.19	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		11-11-60	524	7.0	11	1.2	12	10	24	5.8	213	21	1.9	28	0.4	0.4	0.4	28	60	36	0	
					0.55	0.99	1.83	0.26	1.33	0.00	3.19	0.12	0.03	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1-16-61	544	6.9	--	--	16	10	26	2.1	--	--	--	26	2.1	26	0.2	--	80	52	--	
					--	--	2.00	0.26	1.11	--	--	--	--	--	--	0.73	0.82	0.00	0.00	0.00	0.00	0.00
		2-11-61	374	7.5	16	2.7	23	4.8	1.8	0	158	27	19	2.7	1.9	11	--	0.2	25	80	0	
					0.80	0.80	1.11	0.11	0.27	0.00	2.59	0.56	0.56	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3-20-61	409	7.0	--	--	25	7.5	10	2.7	--	--	--	19	2.7	19	--	0.1	80	232	16			
			--	--	1.52	0.19	0.55	--	--	--	--	--	--	0.51	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4-18-61	508	7.4	11	10	47	9.5	21	0	200	27	26	1.0	32	0.4	0.4	20	260	140	71	0		
			0.55	0.77	2.01	0.21	1.33	0.00	3.28	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-23-61	480	--	--	--	61	8.0	20	--	--	--	--	26	26	--	--	0.1	66	262	64	--		
			--	--	2.65	0.20	--	--	--	--	--	--	--	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6-12-61	511	7.2	17	6.7	45	9.6	24	0	192	23	26	0.9	29	0.3	0.3	30	280	140	70	0		
			0.85	0.55	1.96	0.24	1.33	0.00	3.15	0.18	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6-20-56	468	7.3	17	7.8	44	8.4	18	0	248	12	16	0.30	15	--	--	0.26	60	292	52	0		
			0.85	0.78	1.91	0.22	0.99	0.00	4.07	0.25	0.01	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7-10-57	481	7.2	17	13	42	8.1	18	0	246	11	18	0.3	5.0	1.0	1.0	60	310	37	96	0		
			0.85	1.07	1.83	0.21	1.00	0.00	4.03	0.23	0.31	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6-8-60	526	7.7	21	9.7	49	7.8	21	0	260	15	19	1.8	16	1.6	1.6	52	360	39	100	0		
			1.20	0.80	2.13	0.20	1.15	0.00	4.76	0.31	0.29	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11-11-60	749	7.2	15	16	80	10	21	0	268	20	70	2.1	27	0.2	0.2	54	397	19	104	0		
			0.75	1.33	3.18	0.26	1.17	0.00	4.39	0.12	0.03	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1-16-61	846	7.1	--	--	99	12	29	--	--	--	84	2.8	27	--	--	0.1	99	--	--			
			--	--	4.31	0.31	1.61	--	--	--	--	--	--	0.04	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-11-61	831	7.4	--	--	99	2.2	1.9	--	--	--	91	2.8	26	--	--	0.4	105	--	--			
			--	--	4.31	0.21	1.05	--	--	--	--	--	--	0.82	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3-20-61	649	7.7	23	10	75	10	30	0	271	21	22	2.7	2.7	32	0.4	54	384	145	100	0		
			1.15	0.85	3.26	0.26	1.66	0.00	4.19	0.11	0.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4-18-61	937	7.6	16	13	44	11	16	0	295	23	108	1.1	36	0.6	0.6	56	516	54	99	0		
			0.80	1.18	5.05	0.28	2.00	0.00	5.33	0.18	0.02	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-23-61	1,000	--	--	--	112	10	--	--	--	--	112	--	--	--	--	0.2	72	560	72	104	--	
			--	--	6.18	0.26	--	--	--	--	--	--	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6-12-61	716	7.6	19	12	75	9.0	29	0	286	18	59	0.9	32	0.4	0.4	55	407	146	98	0		
			0.95	1.01	3.25	0.23	1.61	0.00	4.69	0.37	0.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE 0-5 (continued)
MINERAL ANALYSES OF WASTE WATER
 CENTRAL VALLEY REGION (NO. 5)

Number	Source	Date Sampled	Specific conductivity (micro-mhos/cm at 25°C)	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Per cent sodium (ppm)	Hardness as CaCO ₃ (ppm)	Remarks					
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)					Phosphate (PO ₄)	Fluoride (F)	Boron (B)	Silica (SiO ₂)	
3	City of Chico	6-19-56	568	7.3	17 0.85	18 1.18	49 2.13	7.2 0.32	24 1.32	0	0	277 1.54	13 0.27	32 0.90	0.10 0.01	0	0	331 ^a	46	116	0		
		7-9-57	187	7.1	19 0.95	16 1.33	44 1.91	5.7 0.25	16 0.89	0	0	227 1.72	1.9 0.10	36 1.02	0.3 0.00	0	0	310 ^b	37	114	0		
		7-21-50	356	7.3	18 0.90	7.3 1.33	44 1.91	7.0 0.33	1.7 0.09	0	0	112 2.33	10 0.21	32 0.90	0.7 0.01	8.5	0	218 ^a	52	75	0		
		4-20-61	459	7.4	21 1.05	13 1.05	27 1.17	6.5 0.37	11 0.78	0	0	208 3.11	11 0.23	21 0.59	0.9 0.01	14 0.44	0	254	28	105	0		
		6-18-56	470	7.3	7.1 0.33	3.7 0.31	46 2.00	9.3 0.44	31 1.71	0	0	192 3.15	22 0.46	29 0.82	0.80 0.01	23 0.73	0	236	69	33	0		
4	City of Oroville	8-27-59	529	7.0	12 0.60	11 0.90	40 1.74	10 0.26	28 1.55	0	0	204 3.34	21 0.44	29 0.82	0.20 0.00	24 0.76	0	302		76	0		
		8-11-60	560	5.3	14 0.70	16 1.36	28 4.26	14 0.36	0.7 0.04	0	0	96 1.57	0.2 0.00	32 1.10	1.6 0.02	1.8	0	260	63	103	24.4		
		3-23-61	435	7.5	--	--	--	--	--	--	--	--	--	28 0.79	--	--	--	--	--	--	--	--	
		6-21-56	725	7.3	28 1.40	33 2.74	54 2.35	8.2 0.22	2.5 0.14	0	0	292 6.44	11 0.23	23 0.65	0.30 0.00	0	0	421	35	207	0		
		7-9-57	685	7.1	24 1.20	32 2.60	43 1.87	9.5 0.42	17 0.94	0	0	359 5.88	21 0.44	23 0.65	0.4 0.01	22 0.69	0	421	27	190	0		
5	City of Gridley	2-9-59	194	6.5	7.4 0.37	1.3 0.11	15 0.65	5.4 0.24	5.9 0.33	0	0	30 0.49	9.2 0.29	14 0.39	17 0.27	12 0.38	0	98	--	24	0		
		8-27-59	717	7.1	24 1.20	29 2.40	44 1.91	11 0.28	29 1.61	0	0	335 5.49	8.9 0.18	27 1.04	0.7 0.01	24 0.76	0	439	--	180	0		
		3-23-61	652	7.5	--	--	--	--	--	--	--	--	--	24 0.86	--	--	--	--	--	--	--	--	
		6-21-56	662	7.4	25 1.25	22 1.78	70 3.04	8.2 0.21	--	0	230 3.82	17 0.35	55 1.55	0.20 0.00	12 0.38	0	367	48	152	0			
		7-11-57	644	6.9	26 1.30	23 1.90	64 2.78	9.2 0.24	8.3 0.46	0	0	203 4.97	12 0.25	19 0.58	0.2 0.00	0	401	42	160	0			
6	Yuba City	8-27-59	746	5.9	23 1.15	18 1.51	11.3 4.92	1.8 0.46	1.6 0.09	0	0	108 5.69	7.0 0.24	4.6 1.30	0.00	7.4 0.23	0	492	60	133	0		
		3-28-61	345	7.3	--	--	--	--	--	--	--	--	--	26 1.28	--	--	--	--	--	--	--	--	

TABLE C-5 (continued)
MINERAL ANALYSES OF WASTE WATER
 CENTRAL VALLEY REGION (NO. 5)

Number	Source	Date Sampled	Specific Conductance (micro-mhos at 25°C)	pH	Mineral constituents in parts per million								Total Dissolved Solids (ppm)	Per cent as CaCO ₃	Remarks								
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)				Chloride (Cl)	Nitrate (NO ₃)	Phosphate (PO ₄)	Fluoride (F)	Total (ppm)	N/C (ppm)		
7	City of Marysville	6-21-56	738	7.4	29 1.45	26 2.16	62 2.70	9.0 0.23	4.7 0.26	0	0	276 4.52	33 0.69	55 1.55	0.40 0.01	22 0.69	0.18 52	410	41	180	0		
		7-11-57	783	7.0	33 1.65	27 2.21	65 2.83	7.4 0.19	17 0.94	0	0	276 4.52	33 0.69	55 1.55	0.40 0.01	22 0.69	0.18 52	410	41	180	0		
		9-10-59	378	7.3	11 0.55	7.7 0.63	25 1.52	5.6 0.17	3.4 0.78	0	0	141 2.31	19 0.40	18 0.51	7.4 0.20	20 0.63	0.2 52	267	42	59	0		
		8-27-59	638	8.7	24 1.20	12 0.96	86 3.47	11 0.28	2.0 0.11	15 0.50	14.2 2.33	0	0	29 0.60	28 0.76	3.2 0.24	0.2 0.02	0.2 52	388	59	108	0	
		3-23-61	401	7.6	--	--	--	--	--	--	--	--	--	--	8.4 2.37	--	0.2 0.09	--	--	--	--	--	
		6-26-56	154	6.7	6.0 0.30	3.4 0.28	1.2 0.52	4.3 0.11	4.3 0.24	0	0	18 0.90	15 0.31	15 0.42	22 0.36	--	--	0.17 16	107	43	29	14	
8	City of Grass Valley	7-15-57	188	6.5	8.0 1.65	3.7 0.16	15 0.65	4.2 0.11	6.6 0.37	0	0	42 0.69	8.6 0.18	12 0.34	16 0.26	2.2 0.69	0.8 0.04	0.11 15	110	38	28	0	
		8-28-59	194	6.5	7.4 0.37	3.3 0.11	15 0.65	5.4 0.14	3.2 0.33	0	0	20 0.49	9.2 0.19	14 0.39	17 0.27	3.2 0.38	--	0.22 13	98	41	24	0	
		4-24-61	259	6.9	--	--	--	--	--	--	--	--	--	12 0.34	--	0.2 0.01	--	--	--	--	--	--	
		6-27-56	408	7.3	6.0 0.30	6.6 0.54	24 1.48	8.0 0.21	1.2 0.67	0	0	17.4 2.86	15 0.31	22 0.62	0.50 0.01	--	--	0.26 21	211	58	42	0	
9	City of Auburn	7-16-57	260	6.7	12 0.60	5.0 0.41	24 1.04	4.8 0.12	0.5 0.03	0	0	45 0.74	8.1 0.47	16 0.45	33 0.53	9.8 0.31	3.4 0.07	0.17 18	145	47	51	14	
		8-28-59	393	7.1	8.1 0.40	3.2 0.32	22 1.39	8.4 0.21	18 1.00	0	0	20 1.48	11 0.23	33 0.93	21 0.34	22 0.69	--	0.48 14	216	42	36	0	
		4-24-61	544	7.3	--	--	--	--	--	--	--	--	--	14 1.24	--	0.6 0.03	--	--	--	--	--	--	
		6-26-56	373	7.3	8.0 0.40	6.2 0.52	26 1.57	7.3 0.19	0.0 0.00	0	0	13.4 2.20	4.2 0.88	26 0.73	2.6 0.04	--	--	0.40 22	228	59	46	0	
10	City of Roseville	7-16-57	404	7.4	2.6 0.48	4.9 0.40	21 1.35	8.0 0.20	27 1.50	0	0	14.5 2.58	18 0.37	31 0.87	0.3 0.00	--	1.5 0.08	0.61 21	234	34	44	0	
		4-10-59	449	7.2	9.1 0.45	6.4 0.53	38 1.65	8.2 0.21	23 1.27	0	0	15.0 2.46	17 0.35	33 0.93	1.0 0.02	2.4 0.76	0.4 12	266	40	49	0		
		4-24-61	595	7.4	--	--	--	--	--	--	--	--	--	48 1.35	--	0.2 0.01	--	--	--	--	--	--	
		8-27-59	415	6.9	7.2 0.39	2.8 0.23	26 1.57	10 0.26	2.4 0.00	0	0	12.5 2.05	11 0.23	27 1.04	1.0 0.02	2.0 0.63	--	0.00 18	229	42	31	0	
11	City of Placerville	4-16-61	418	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

TABLE C-5 (continued)

MINERAL ANALYSES OF WASTE WATER

CENTRAL VALLEY REGION (NO. 3)

Number	Source	Date Sampled	Specific conductance (micro-mhos/cm at 25°C)	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Per cent sodium	Hardness as CaCO ₃		Remarks				
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)			Phosphate (PO ₄)	Fluoride (F)		Boron (B)	Silica (SiO ₂)	Total (ppm)	N (ppm)
12	Sacramento County Sanitation District No. 6	6-27-56	600	7.2	13	21	70	10	0.2	0	166	33	82	1.8	--	0.27	95	424	53	0			
					0.65	1.73	3.04	0.28	0.02	0.00	2.09	0.69	2.31	0.29	--	0.16	22	119					
					1.10	75	75	11	6.5	0	135	32	92	2.3	4.1	0.20	0.20	93	441	51	1.2	11	
					0.75	1.37	2.91	0.28	0.66	0.00	2.87	0.42	1.74	0.16	1.07	0.4	0.02	85	27	49	106	0	
13	McClellan Air Force Base	6-30-56	558	7.4	17	16	44	2.7	0.0	212	14	46	7.2	--	0.22	81	342	44	0				
					0.85	1.35	1.91	0.25	0.00	3.49	0.29	1.30	0.13	--	0.10	24	110						
					0.80	1.32	2.18	0.31	1.05	0.00	1.95	23	56	8.6	20	0.8	0.24	87	405	39	104	0	
					0.80	1.30	4.22	0.25	0.89	0.00	3.13	0.44	1.47	0.22	0.41	--	1.0	83	387	41	105	0	
14	City of Woodland	6-25-56	1260	7.1	43	46	138	2.8	2.2	472	30	160	0.40	--	2.1	25	719	49	296	0			
					2.15	3.77	6.00	0.25	1.22	0.00	7.74	0.62	4.51	0.01	--	0.05	22	697	46	272	0		
					2.00	4.2	5.83	0.21	1.11	0.00	4.20	0.55	5.10	0.00	--	1.0	20	712	45	279	0		
					2.20	3.37	5.70	0.24	1.05	0.00	4.38	0.57	4.74	0.01	0.63	--	2.1	22	728	56	270	0	
15	City of Davis	6-25-56	1430	7.5	34	71	150	8.8	21	588	70	462	0.30	--	1.2	48	863	46	378	0			
					1.70	5.86	6.52	0.23	1.47	0.00	9.64	1.46	4.20	0.00	--	0.08	42	668	38	330	0		
					1.70	4.90	4.83	0.20	1.05	0.00	5.74	0.69	2.12	0.00	--	1.6	21	942	38	315	0		
					1.35	4.94	10.35	0.38	0.66	0.00	8.82	1.23	3.84	0.06	0.41	--	0.5	--	--	--	--		

TABLE C-5 (continued)
MINERAL ANALYSES OF WASTE WATER
 CENTRAL VALLEY REGION (NO. 5)

Number	Source	Date Sampled	Specific conductivity (micro-mhos/cm at 25°C)	pH	Mineral constituents in parts per million equivalents per million											Total dissolved solids (ppm)	Percent calcium	Hardness as CaCO ₃ (ppm)	Remarks				
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Phosphate (PO ₄)					Fluoride (F)	Boron (B)	Silica (SiO ₂)	
20	Cordova Sewer Maintenance District	9-2-59	640	7.5	11.0	20.0	52.0	1.9	21.0	0.0	2.8	25.0	47.0	0.7	4.3	--	0.4	56	413	41	108	0	
		8-2-60	669	7.7	11.0	18.0	51.0	1.9	21.0	0.0	2.6	23.0	49.0	0.5	4.4	--	0.2	55	359	35	103	0	
		4-20-61	694	7.9	10.0	13.0	56.0	1.4	24.0	0.0	2.9	30.0	37.0	1.9	4.3	0.2	0.5	48	410	49	102	0	
21	Mather Air Force Base	6-28-56	359	7.2	8.8	8.5	56.0	7.3	0.0	0.0	1.0	25.0	14.0	8.0	--	0.25	52	236	56	57	0		
		6-3-59	265	9.4	24.6	24.6	37.0	8.2	2.9	22.0	0.36	10.0	25.0	9.6	20.0	0.8	0.35	55	207	55	47	11	
		9-10-59	378	7.3	11.0	7.7	35.0	6.6	1.4	0.0	1.1	19.0	18.0	2.4	20.0	--	0.2	52	267	42	59	0	
22	City of Vacaville - Brom Street Plant	8-1-60	110	8.1	5.2	31.0	1.9	5.2	0.0	0.0	0.0	66.0	100.0	1.0	22.0	--	0.6	68	68	51	261	0	
		4-5-61	917	8.0	--	--	--	--	--	--	--	--	88.0	2.48	--	0.2	0.01	--	--	--	--	--	
24	Pitreboard Products - Antioch Division	9-17-56	717	6.2	28.0	12.0	4.8	0.12	--	0.0	1.28	27.0	11.0	1.4	--	--	1.5	27	400	62	120	15	
		8-20-57	3930	6.1	47.0	61.0	0.84	0.41	0.0	0.0	2.36	--	11.50	32.43	0.2	0.0	0.6	11	2170	78	368	290	
		8-11-59	9710	6.5	88.0	233.0	1.61	0.01	0.0	0.0	67.0	533.0	324.0	2.2	0.0	--	1.4	74.2	6010	76	1180	1120	
25	City of Antioch	9-21-56	1380	7.1	27.0	11.0	1.4	2.61	0.0	0.0	27.6	15.4	11.5	0.9	--	--	0.48	32	737	56	222	0	
		8-19-57	1370	7.4	35.0	26.0	1.69	0.41	0.0	0.0	29.9	135.0	188.0	0.8	5.1	3.6	0.82	33	754	52	194	0	
		8-7-59	2580	7.3	51.0	58.0	0.79	0.26	0.0	0.0	29.3	220.0	287.0	0.1	2.2	--	0.8	28	1550	62	367	127	
26	Crown Zellerbach Corporation	9-20-60	1690	7.3	25.0	24.0	1.7	2.05	0.0	0.0	26.2	117.0	324.0	9.6	--	--	0.8	21	908	60	203	0	
		6-1-59	948	7.0	23.0	19.0	5.2	0.3	0.0	0.0	79.0	63.0	231.0	2.2	0.0	0.1	0.22	14	--	66	135	70	
		8-11-59	6720	7.2	54.0	157.0	1.1	0.32	0.0	0.0	99.0	316.0	2160.0	2.2	0.0	--	0.3	71.0	4020	76	783	702	

TABLE C-5 (continued)
MINERAL ANALYSES OF WASTE WATER
 CENTRAL VALLEY REGION (NO. 5)

Number	Source	Date Sampled	Specific conductance (micro-mhos at 25°C)	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Per cent solids per dium	Hardness as CaCO ₃ Total (ppm)	N.C.	Remarks				
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)						Phosphate (PO ₄)	Fluoride (F)	Free Silica (SiO ₂)	
27	Fibreboard Products - San Joaquin Division	9-21-56	879	7.6	12	8.2	171	7.6	--	0	280	61	27	44.2	--	1.5	524	80	84	0			
					0.95	0.73	7.42	0.19	--	0.00	4.59	1.27	2.74	0.07	--	--	2.2						
					183	48	433	19	--	0	183	234	24.0	7.8	0.00	0.8	1.1	2030	61	653	503		
28	E. I. DuPont Company	8-21-57	3500	6.9	9.13	3.93	21.45	4.49	--	0	4.87	4.87	20.0	1.2	2.8	9800	70	14.00	11.00				
					11.6	1.91	16.20	5.3	--	0	271	467	20.0	1.2	0.00	--	1.1						
					12.28	15.69	70.47	1.36	0.02	0.00	6.08	10.14	81.88	0.02	0.00	--	--	--					
29	City of Lodi	7-11-56	737	7.4	25	20	69	13	25	0	314	27	57	0.0	0.42	467	48	144	0				
					1.25	1.62	3.00	0.33	1.39	0.00	5.35	0.36	1.61	0.00	0.82	--	0.42						
					31	14	59	12	--	0	276	26	49	0.8	5.1	1.6	0.47	422	36	137	0		
30	North Utility District (Lincoln Village)	7/17-18/57	674	7.6	1.18	1.18	2.57	0.31	--	0	4.52	0.59	1.38	0.01	1.6	422	36	137	0				
					1.35	1.29	2.42	0.26	0.02	0.00	2.34	1.27	1.03	0.76	--	0.2	389	46	132	15			
					27	16	56	10	0.3	0	143	12	45	64	24	1.6	0.47	422	36	137	0		
31	City of Stockton, North Plant	7-7-56	1030	7.5	16	26	102	10	22	0	360	69	109	0.0	0.20	612	48	223	0				
					1.20	2.16	4.44	0.28	1.22	0.00	5.90	1.31	3.07	0.00	0.92	--	0.20						
					25	18	93	14	4.3	0	265	28	68	1.8	1.2	1.8	0.52	592	44	137	0		
32	City of Stockton, South Plant	7-7-56	1390	7.5	24	16	114	12	23	0	314	17	114	0.0	0.64	532	64	126	0				
					1.20	1.32	4.96	0.31	1.28	0.00	5.15	0.35	3.21	0.00	0.76	--	0.64						
					24	15	99	12	25	0	299	24	98	0.5	--	1.4	0.72	496	51	123	0		
32	City of Stockton, South Plant	7/17-18-57	1920	7.3	48	10	346	16	25	0	660	24	295	1.2	1.4	1150	75	162	0				
					2.40	0.85	15.09	0.41	1.39	0.00	10.65	0.50	8.32	0.02	0.28	--	1.4						
					56	24	226	14	7.2	0	327	60	312	3.4	10	1.2	0.6	931	64	240	0		
32	City of Stockton, South Plant	8-11-59	1570	7.5	24	24	9.83	14	7.2	0	327	60	312	3.4	10	931	64	240	0				
					2.79	0.36	9.83	0.36	0.40	0.00	5.36	1.25	9.00	0.05	0.32	--	0.6						
					24	24	9.83	14	7.2	0	327	60	312	3.4	10	1.2	0.6	931	64	240	0		

(b) Analysis by discharging agency.

TABLE 0-5 (continued)
MINERAL ANALYSES OF WASTE WATER
 CENTRAL VALLEY REGION (NO. 5)

Number	Source	Date Sampled	Specific Ion- mic- mhos at 25°C	pH	Mineral constituents in parts per million											Total dissolved solids (ppm)	Hardness as CaCO ₃ (ppm)	Per cent sodium	Remarks						
					Calcium (Ca)	Magne- sium (Mg)	Sodium (Na)	Potas- sium (K)	Ammon- ium (NH ₄)	Carbon- ate (CO ₃)	Bicar- bonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Ni- trate (NO ₃)	Phos- phate (PO ₄)					Fluo- ride (F)	Borax (B)	Silica (SiO ₂)			
33	City of Tracy - Domestic Wastes	7-5-56	1480	7.5	74 3.69	30 2.48	167 7.26	16 0.41	21 1.17	0	0	375 6.15	160 3.33	188 5.30	0.3 0.00	23 0.765	--	1.8 0.08	38 0.08	881	308	0			
		7-18-57	1320	7.2	72 3.59	25 2.07	151 6.57	8.2 0.21	12 0.67	0	0	281 4.28	162 3.37	165 4.65	8.2 0.13	3.6 0.11	38 0.08	1.6 0.08	38 0.08	774	283	69			
		8-11-59	1340	7.3	90 4.49	27 2.36	156 6.79	10 0.26	0.2 0.02	0	0	225 3.69	224 4.87	180 5.08	2.4 0.06	20 0.63	--	1.6 0.08	30 0.08	862	338	154			
		7-5-56	1080	6.5	74 3.69	25 2.07	118 5.13	21 0.54	--	0	0	220 5.24	104 2.17	127 3.58	0.2 0.00	4.4 0.14	--	1.5 0.08	21 0.08	651	45	288	26		
		7-24-59	1260	--	--	--	--	--	--	--	--	--	--	181 5.10	--	--	--	1.5 0.08	--	738	50	--			
34	City of Manteca	7-10-56	725	7.4	42 2.10	18 1.46	64 2.78	12 0.31	18 1.00	0	0	366 6.00	23 0.48	32 0.90	0.0	0.0	--	0.36 0.07	62	451	42	178	0		
		7/18-19/57	691	6.8	41 2.05	13 1.08	80 3.48	19 0.46	8.5 0.47	0	0	365 5.98	1.9 0.04	34 0.96	0.6 0.01	17 0.54	1.4 0.07	0.58 0.07	58	437	46	156	0		
		7-21-59	866	7.1	29 1.95	15 1.27	116 5.05	18 0.46	12 0.66	0	0	486 7.96	14 0.29	28 1.07	0.9 0.01	24	--	0.3 0.07	57	573 ^a	54	161	0	16-Hour Composite	
		4-6-61	773	7.1	31 1.80 ^d	--	49 2.13	44 1.12	--	--	--	--	--	60 1.69	--	--	--	0.2 0.02	0.4	--	546	30	192	--	
		8-31-61	722	7.7	20 2.50	14 1.18	22 4.00	22 0.56	1.5 0.08	0	0	270 6.06	0.4 0.01	33 0.93	1.6 0.02	12	0.2 0.01	0.2	61	456 ^a	48	184	0		
35	City of Modesto	7-11-56	1020	7.3	57 2.84	14 1.13	131 5.70	17 0.43	--	0	0	361 5.92	21 0.44	141 3.98	0.3 0.00	--	--	0.44 0.08	56	616	56	198	0		
		7-19-57	1010	7.9	47 2.35	18 1.50	116 5.05	16 0.36	14 0.78	0	0	295 4.84	20 0.42	262 4.57	1.0 0.02	18 0.57	1.6 0.08	0.28 0.08	52	598	50	192	0		
		7-20-59	1080	7.3	60 2.99	18 1.51	120 5.22	16 0.41	0.6 0.53	0	0	297 4.87	11 0.23	194 5.47	0.4 0.01	11 0.35	--	0.52 0.08	55	642 ^a	49	225	0		
		3-23-61	866	7.0	31 1.80 ^d	--	104 4.32	24 0.61	--	--	--	--	--	128 3.01	--	--	--	0.5 0.03	0.2	--	556	54	159	--	
		7-5-56	551	7.4	26 1.30	12 0.98	67 2.91	8.0 0.20	--	0	0	164 2.69	18 0.37	64 1.80	20 0.32	--	--	0.20 0.08	42	345	54	114	0		
36	City of Turlock - Domestic Sewage	7-18-57	491	7.1	30 1.50	7.4 0.61	55 2.39	6.7 0.17	1.0 0.06	0	0	138 2.26	15 0.31	23 1.49	28 0.45	12 0.38	1.4 0.07	0.13	51	317	51	105	0		
		7-20-59	859	7.0	46 2.30	20 1.62	90 3.92	11 0.34	0.6 0.03	0	0	422 6.92	6.6 0.14	70 1.97	1.7 0.05	0.2 0.31	--	0.2	52	539 ^a	45	195	0		
		4-6-61	747	7.1	16 1.60 ^d	--	29 4.31	11 0.28	--	--	--	--	--	108 3.05	--	--	0.4 0.02	0.4	--	440	70	80	--		

(a) Sum of analyzed constituents.
 (c) Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn).
 (d) Sum of calcium and magnesium.

TABLE 6-5 (continued)
MINERAL ANALYSES OF WASTE WATER
 CENTRAL VALLEY REGION (NO. 5)

Number	Source	Date Sampled	Specific conductance (micro-mhos at 25°C)	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Per cent sodium (ppm)	Hardness as CaCO ₃	Remarks					
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)					Phosphate (PO ₄)	Fluoride (F)	Iron (B) (SiO ₂)		
36	City of Turlock - Domestic Sewage (Continued) Industrial Waste	9-28-61	664	7.6	26 1.30	9.2 0.76	88 3.83	14 0.36	7.6 0.42	0	0	402 3.31	24 0.50	91 2.57	0.1 0.00	23 ^(a)	0.4 0.02	0.0	403 ^a	57	0		
		7-5-56	584	7.5	1.80	11 0.94	53 2.31	11 0.28	12 0.67	0	0	213 3.49	18 0.37	68 1.92	0.40 0.00	--	--	0.15	365	43	0		
		7-18-57	775	7.4	1.75	12 0.96	50 2.18	16 0.41	46 2.55	0	0	255 5.49	16 0.33	62 1.75	0.7 0.01	15 0.47	1.4 0.07	0.20	450	28	0		
		7-20-59	912	7.2	1.77 2.36	21 1.70	98 4.26	34 0.87	5.6 0.30	0	0	455 7.46	8.6 0.18	77 2.17	1.1 0.02	2.8 0.31	--	0.2	590 ^b	45	0		
		4-6-61	534	7.2	1.38 ^d	--	49 2.11	13 0.33	--	--	--	--	--	48 1.35	--	--	0.4 0.02	0.1	356	55	--		
		9-28-61	875	7.5	1.46 2.30	14 1.18	71 3.09	22 0.56	1.9 1.05	0	0	308 5.05	3.8 0.79	96 2.71	1.1 0.02	22 ^(a)	0.2 0.01	0.0	495 ^a	38	0		
37	Castle Air Force Base	7-10-56	494	7.4	22 1.10	7.1 0.58	48 2.09	14 0.36	6.1 0.339	0	0	194 3.18	24 0.71	20 0.56	11 0.18	--	--	0.16	319	51	84	0	
		6-10-59	610	7.5	21 1.05	7.7 0.63	64 2.78	16 0.41	24 1.33	0	0	264 4.33	29 0.60	29 0.82	0.9 0.01	25 ^(a)	0.2 0.05	0.42	409 ^a	45	84	0	
		7-20-59	537	7.7	24 1.20	6.1 0.50	50 2.18	14 0.36	1.9 1.05	0	0	290 3.77	22 0.46	31 0.87	0.8 0.01	24 ^(a)	0.2 0.01	0.5	363 ^a	41	85	0	
		4-6-61	610	8.0	--	--	--	--	--	--	--	--	--	44 1.24	--	--	0.2 0.01	--	--	--	--	--	
		7-20-59	561	7.2	17 0.85	6.0 0.49	66 2.87	13 0.33	1.9 1.05	0	0	264 4.33	15 0.31	29 0.82	1.0 0.02	22	--	0.6	382 ^a	51	67	0	
38	City of Atwater	4-6-61	481	6.5	1.48 ^d	--	52 2.26	12 0.31	--	--	--	--	69 1.69	--	--	--	0.4 0.02	0.5	422	56	74	--	
		8-31-61	958	7.8	23 1.15	4.2 0.35	198 8.61	17 0.49	6.8 1.00	0	0	260 9.18	2.2 0.05	41 1.16	1.6 0.02	15 ^(a)	0.2 0.01	0.3	628 ^a	78	75	0	
		7-10-56	639	7.4	33 1.65	17 1.43	56 2.44	2.5 0.24	2.2 0.24	0	0	215 5.16	20 0.42	33 0.93	0.0 0.00	--	--	0.20	410	42	154	0	
		7/19-20/57	613	7.9	1.45	17 1.39	52 2.26	9.5 0.24	1.8 1.00	0	0	306 5.02	13 0.27	30 0.85	0.5 0.01	--	2.2 0.12	0.08	394	36	142	0	
39	City of Merced	7-20-59	574	8.3	31 1.55	16 1.29	61 2.65	4.8 0.25	7.2 0.40	0	0	271 4.44	23 0.43	37 1.04	0.6 0.01	--	--	0.1	401 ^a	43	142	0	
		4-6-61	696	7.2	--	--	64 2.78	12 0.31	--	--	--	--	56 1.58	--	--	0.1 0.00	0.4	448	47	143	0		

(a) Sum of analyzed constituents.
 (b) Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn).
 (c) Sum of calcium and magnesium.
 (d) Ortho-phosphate.
 (e) Grab sample.

TABLE 1-5 (continued)
MINERAL ANALYSES OF WASTE WATER
 CENTRAL VALLEY REGION, 1961

Number	Source	Date Sampled	Specific Gravity (micro-mhos at 25°C)	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Percent sodium (ppm)	Hardness as CaCO ₃ (ppm)		Remarks				
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)			Phosphate (PO ₄)	Fluoride (F)		Borate (B)	Silica (SiO ₂)	Total	N
40	City of Madera	7-14-56	467	7.3	19 0.95	6.5 0.33	49 2.13	2.6 0.25	1.2 0.667	0	184 3.02	14 0.29	38 1.07	0.60 0.01	0	0.28	72	31.3	55	74	0		
		7-29-57	548	7.1	21 1.05	4.6 0.21	67 3.91	11 0.72	13 0.72	0	187 3.36	14 0.29	62 1.75	0.4 0.01	0	0.15	59	35.4	56	63	0		
		7-17-59	633	7.3	16 0.80	8.2 0.66	84 3.65	10 0.76	11 0.61	0	183 3.00	11 0.23	89 2.51	1.5 0.02	0	0.44	57	40.8	61	73	0		
		4-7-61	903	7.5	--	--	--	--	--	--	--	--	72 2.03	--	--	0.2	--	--	--	--	--	--	
		9-27-61	676	7.5	23 1.15	4.5 0.37	84 3.15	14 0.96	17 0.94	0	182 3.16	20 0.42	89 2.51	0.1 0.00	23	0.2	0.0	62	39.8	56	76	0	Fe 0.63 Al 0.12 Mn 0.10 Cu 0.06
		1-16-62	854	7.1	1.52	--	98 4.26	--	--	--	--	--	79 2.23	--	--	0.1	--	--	--	--	76	--	--
41	City of Clovis	7/14-15/60	586	7.4	15 0.75	24 2.01	13 0.33	2.4 0.13	2.4 0.13	0	169 2.77	20 0.42	42 1.18	74 1.18	32 ^b	0.2	68	43.1	44	138	0		
		4-12-61	730	7.0	--	--	--	--	--	--	--	--	22 1.47	--	--	0.44	--	--	--	--	--	--	
		9/26-27/61	630	7.5	22 1.10	18 1.32	62 2.70	14 0.96	2.0 0.50	0	181 2.97	22 0.67	43 1.21	83 1.34	48 ^b	0.5	59	43.3	44	131	0		
		7-14-56	634	7.3	24 1.20	18 1.46	63 2.74	12 0.91	17 0.94	0	283 4.64	17 0.35	50 1.41	130 0.00	--	0.44	80	63.4	48	133	0		
42	City of Fresno	8-29-57	685	7.4	25 1.25	16 1.35	72 3.13	16 0.41	15 0.83	0	276 4.53	24 0.20	59 1.66	0.6	--	78	41.2	45	130	0			
		7-17-59	594	6.9	25 1.25	16 1.35	54 2.35	10 0.78	14 0.78	0	282 4.26	12 0.45	1.16	0.7	17	0.44	61	39.0	39	130	0		
		4-12-61	657	7.0	2.08 ^a	--	74 3.22	20 0.51	--	--	--	--	84 2.37	--	--	0.5	0.1	--	50.1	49	144	--	Fe 0.44 Al 0.10 Mn 0.15 Cu 0.01
		7-20-61	606	6.8	23 1.05	11 0.89	55 2.39	12 0.91	13 0.72	0	229 3.75	8.9 0.18	43 1.21	0.1 0.00	2.0 ^b	0.2	74	35.0	40	127	0		
43	City of Sanger - Domestic Sewage	7-13-56	569	7.5	10 0.50	19 1.58	48 2.09	9.8 0.75	27 1.50	0	267 4.38	27 0.56	31 0.87	0.70 0.01	--	36	34.1	47	104	0			
		7-29-57	531	7.1	17 0.85	14 1.15	45 1.96	2.1 0.23	20 1.11	0	237 3.88	24 0.50	25 0.70	0.01	--	25	30.8	37	100	0			
		7-20-59	557	7.4	11 0.55	17 1.57	51 2.22	7.6 0.19	22 1.22	0	224 4.16	22 0.46	28 0.79	1.0 0.02	2.2	0.44	29	34.8	39	106	0		
		7/14-15/60	471	7.3	12 0.60	16 1.36	37 1.61	8.4 0.21	19 1.05	0	216 3.54	2.2 0.46	22 0.62	0.2 0.00	1.8 ^b	0.0	21	29.4	33	98	0		
		4-12-61	588	7.0	--	--	--	--	--	--	--	--	32 0.90	--	--	0.0	--	--	--	--	--	--	

(a) Sum of analyzed constituents.
 (b) Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn).
 (c) Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn).
 (d) Sum of calcium and magnesium.
 (e) Ortho-Phosphate.

TABLE C-5 (continued)
MINERAL ANALYSES OF WASTE WATER

CENTRAL VALLEY REGION (No. 5)

Number	Source	Date Sampled	Specific conductance (micro-mhos at 25°C)	pH	Mineral constituents in parts per million											Total dissolved solids (ppm)	Per cent sodium	Hardness as CaCO ₃	Remarks						
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Phosphate (PO ₄)					Fluoride (F)	Barium Silicate (BaSiO ₃)				
43	City of Singer - Industrial Waste (Continued)	7-13-56	512	4.2	19 0.95	1.8 1.51	22 1.39	27 0.69	0	0	0	0	13 0.27	20 0.85	0.02 0.01	--	0.57	26	179	31	123	123			
		3-18-60	613	7.2	29 1.45	22 1.85	61 1.78	19 0.49	0	0	0	0	22 0.94	42 1.18	1.5 0.07	3.4 ^e	--	1.0	35	361 ^a	29	165	0	Grab sample	
		2/14-15/60	458	7.2	13 0.65	1.8 1.47	63 1.87	10 0.26	9.1 0.70	0	0	0	201 3.29	17 0.79	0.0	1.8 ^e	--	0.2	24	289 ^a	39	106	0		
		8-25-60	1310	7.2	28 1.40	8.5 0.70	217 9.44	25 2.45	0	0	0	0	771 12.64	1.0 1.24	0.6 0.01	--	0.1 0.00	0.7	40	815 ^a	68	105	0		
		12-14-60	629	7.0	10 0.50	21 2.52	52 2.26	21 0.54	--	--	--	--	238 3.90	31 1.72	13 0.53	--	0.1 0.00	0.6	27	369 ^a	39	151	0		
		4-12-61	396	7.1	--	--	--	--	--	--	--	--	--	16 1.02	--	--	--	--	--	--	--	--	--	--	Grab sample
		1-12-62	837	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.4	--	--	--	--	--	--	Grab sample
		7/12-13/60	898	7.8	14 0.70	4.2 1.18	178 7.74	17 0.43	7.4 0.42	0	0	0	488 4.33	1.5 0.03	4.8 1.35	0.0 0.00	4.0 ^e	--	0.8	43	592 ^a	82	44	0	
		4-12-61	897	7.2	--	--	--	--	--	--	--	--	--	--	52 1.47	--	--	--	--	--	--	--	--	--	Grab sample
		9-12-61	924	7.9	18 0.90	2.4 0.28	176 7.66	23 0.59	2.1 0.29	0	0	0	470 7.70	2.0 0.04	27 1.61	0.1 0.00	5.0 ^e	--	1.4 0.07	44	558 ^a	79	59	0	
45	City of Hanford	7-14-56	601	7.3	16 0.80	2.9 0.24	25 4.13	13 0.33	1.9 0.72	0	0	0	272 4.67	1.9 0.40	2.0 0.01	--	--	0.51	27	389	75	52	0		
		7-14-56	601	--	--	--	--	--	--	--	--	--	--	38 1.07	--	--	--	0.51	--	389	75	--	--	Grab sample	
		7-29-57	655	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
		7-17-59	578	7.0	20 1.00	0.7 0.06	84 3.65	1.2 0.31	1.4 0.78	0	0	0	257 4.21	2.7 0.70	3.6 1.02	1.2 0.02	1.9 0.60	--	0.42	22	362 ^a	63	53	0	
		8-18-60	574	--	--	--	--	--	--	--	--	--	--	--	41 1.16	--	--	--	0.2	--	--	--	--	--	Grab sample
		4-12-61	644	7.7	--	--	--	--	--	--	--	--	--	--	5.6 1.58	--	--	--	0.8 0.04	--	--	--	--	--	
		9-12-61	607	9.5	2.0 0.45	0.0 0.00	11.8 5.13	1.4 0.36	1.4 0.08	7.2 7.40	0	0	0	101 1.66	0.0 0.00	0.0 0.00	2.0 ^e	--	0.5 0.03	66	379 ^a	85	22	0	
		7-13-56	502	7.3	33 1.65	1.5 1.25	63 1.87	1.6 0.46	0	0	0	4.0 4.03	1.9 0.40	2.8 0.79	0.20 0.00	--	--	0.23	33	306	36	145	0		
		7-30-57	537	7.1	16 0.70	0.7 0.06	87 3.78	0.25 0.25	1.4 0.78	0	0	0	23.9 3.92	1.6 0.33	3.2 1.90	0.4 0.01	--	--	0.24	24	34.8	6.8	18	0	
		7-16-59	628	7.0	32 1.60	1.4 1.18	56 2.44	1.7 0.43	1.2 0.66	0	0	0	27.6 4.52	0.9 0.18	5.0 1.41	0.6 0.01	2.5 0.79	--	0.22	24	376 ^a	39	139	0	

(a) Sum of analyzed constituents.
(d) Sum of calcium and magnesium.
(e) Ortho-phosphate.

TABLE C-5 (continued)
MINERAL ANALYSES OF WASTE WATER
 CENTRAL VALLEY REGION (NO. 5)

Number	Source	Date Sampled	Specific conductance (micro-mhos at 25°C)	pH	Mineral constituents in parts per million equivalents per million										Total dissolved solids (ppm)	Per cent sodium (ppm)	Hardness as CaCO ₃ (ppm)	Remarks							
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)					Phosphate (PO ₄)	Fluoride (F)	Boron (B)	Silica (SiO ₂)			
46	City of Visalia	2-18-60	842	7.7	26 1.30	22 1.78	77 3.35	22 0.96	20 1.66	0	0	257 5.85	16 0.33	67 1.89	3.6 0.06	46 ^e	--	2.2	22	518 ^a	49	154	0	Grab sample	
		8-19-60	692	--	--	65 2.83	--	--	--	--	--	--	--	51 1.52	--	--	--	0.6	--	--	--	--	--	--	Grab sample
		4-12-61	2030	7.1	--	--	--	--	--	--	--	--	--	420 11.84	--	0.3 0.02	--	0.3	--	--	--	--	--	--	Grab sample
		10-31-61	1230	6.5	2.57 ^d	--	152 6.61	--	--	--	--	--	--	160 4.51	--	--	--	--	--	--	--	--	137	--	Grab sample
		1-12-62	991	--	--	--	--	--	--	--	--	--	--	147 3.58	--	--	--	--	0.4	--	--	--	--	--	Grab sample
		1-17-62	827	6.9	2.40 ^d	--	84 3.65	--	--	--	--	--	--	78 2.20	--	--	--	--	0.1	--	--	--	120	--	Grab sample
47	City of Corcoran	7-20-59	558	7.0	16 0.90	1.0 0.08	84 3.65	6.0 0.15	15 0.83	0	0	245 3.84	12 0.25	26 1.02	1.2 0.02	24 1.07	--	0.58	22	350 ^a	66	44	0	Grab sample	
		8-17-60	326	--	--	--	50 2.18	--	--	--	--	--	--	20 0.56	--	--	--	0.2	--	--	--	38	--	Grab sample	
		4-12-61	632	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0.6	--	--	--	--	--	Grab sample	
		9-12-61	512	8.2	22 1.10	0.7 0.06	80 3.48	5.1 0.13	12 0.66	0	0	242 3.97	10 0.21	33 0.93	0.0 0.00	18 ^e	--	0.5	24	305 ^a	64	58	0	Grab sample Flow - 0.1 MGD.	
		7-13-56	317	7.4	8.8 0.44	0.7 0.06	55 2.39	4.6 0.12	--	0	0	157 2.57	7.0 0.15	14 0.40	0.0 0.01	--	--	0.21	20	188	79	25	0	Grab sample	
		7-30-57	411	6.8	11 0.55	0.5 0.04	48 2.09	4.1 0.13	21 1.16	0	0	205 3.36	7.7 0.18	18 0.51	0.5 0.01	--	0.2	17	18	211	63	30	0	Grab sample	
48	City of Tulare - Domestic Sewage	7-15-59	374	6.8	8.1 0.40	0.0 0.00	56 2.44	5.5 0.14	13 0.72	0	0	165 2.70	12 0.25	19 0.54	0.0 0.03	16 0.51	--	0.1	21	234 ^a	66	20	0	Grab sample	
		7/12-13/60	356	7.0	9.1 0.45	0.4 0.03	52 2.26	5.2 0.13	11 0.61	0	0	146 2.39	13 0.27	16 0.45	1.2 0.19	14 ^e	--	0.0	19	226 ^a	65	24	0	Grab sample	
		4-12-61	484	7.0	--	--	--	--	--	--	--	--	--	24 0.96	--	--	0.4	0.02	--	--	--	--	--	Grab sample	
		7-13-56	360	7.3	7.2 0.38	0.7 0.06	64 2.78	5.0 0.13	--	0	0	182 3.00	6.0 0.13	16 0.45	0.0 0.01	--	--	0.22	22	219	75	21	0	Grab sample	
		7/12-13/60	366	7.0	25 1.25	2.1 0.17	41 1.78	8.8 0.22	5.2 0.33	0	0	177 2.90	4.6 0.12	20 0.56	0.0 0.00	17	--	0.0	15	227 ^a	47	71	0	Grab sample	
		4-12-61	431	6.8	--	--	--	--	--	--	--	--	--	32 0.90	--	--	0.2	0.01	--	--	--	--	--	--	Grab sample
4-3-62	736	6.9	23 1.15	8 0.35	117 5.10	3 0.08	0	0	0	314 5.15	4.2 0.89	30 0.84	0	0	0	1.5	0.36	18	525	73	140	0	Grab sample		

(a) Sum of analyzed constituents.
 (d) Sum of calcium and magnesium.
 (e) Ortho-phosphate.

TABLE C-5 (continued)
MINERAL ANALYSES OF WASTE WATER
 CENTRAL VALLEY REGION (NO. 5)

Number	Source	Date Sampled	Specific con- ductance (micro- mhos at 25°C)	pH	Mineral constituents in parts per million										Total dis- solved solids (ppm)	Per cent soli- dum	Hardness as CaCO ₃		Remarks					
					Calcium (Ca)	Magne- sium (Mg)	Sodium (Na)	potas- sium (K)	Ammon- ium (NH ₄)	Carbon- ate (CO ₃)	Bicar- bonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Ni- trate (NO ₃)			Phos- phate (PO ₄)	Fluor- ide (F)		Boron (B)	Silico (SiO ₂)	Total (ppm)	N	C
49	City of Lindsay	7-13-59	5890	7.0	65 3.24	28 3.15	1150 50.02	33 0.79	14 0.78	0	513 8.41	45 0.94	1710 48.22	243 0.63	2.1	0.3	42	3370 ^a	86	320	0	Grab sample		
		12-14-60	7120	7.6	29 1.95	24 2.61	1452 63.16	55 1.41	19 1.05	0	560 9.18	28 1.21	2110 59.50	244 0.65	2.4	0.3	42	4120	90	238	0	Grab sample		
		8-18-60	1580	--	--	--	166 7.22	--	--	--	--	--	212 8.80	--	--	0.3	--	--	--	--	--	--	Grab sample	
		4-12-61	9060	7.7	--	--	--	--	--	--	--	--	--	--	--	0.3	0.02	--	--	--	--	--	Grab sample	
		11-1-61	6660	7.4	57 ^d	--	1380 60.03	--	--	--	--	--	1780 50.20	--	--	0.6	--	--	--	279	--	--	Grab sample	
		1-4-62	8270	7.3	103 5.14	60 4.91	1570 69.30	45 1.15	17 1.22	0	518 8.49	26 1.16	2210 70.78	17 ^e	0.4	0.4	40	4610 ^b	85	503	78	Grab sample		
		1-9-62	5460	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Grab sample	
		1-17-62	5860	7.0	87 ^d	--	1180 51.55	--	--	--	--	--	1670 47.09	--	--	0.7	--	--	--	--	--	--	Grab sample	
		1-17-62	5530	7.4	1080 6.47 ^d	--	1080 46.98	--	--	--	--	--	1570 44.27	--	--	0.4	--	--	--	324	--	--	Grab sample	
		1-23-62	10,000	11.1	--	--	2160 93.96	--	--	--	--	--	2700 70.34	--	--	0.72	--	--	--	96	--	--	Grab sample	
		50	City of Porterville	7-13-56	540	7.4	28 1.40	14 1.14	58 2.52	8.0 0.20	--	0	183 3.00	27 0.56	42 1.18	25 0.40	--	--	26	328	48	127	0	Grab sample
				7-25-57	601	7.5	27 1.85	11 0.87	59 2.57	8.4 0.21	11 0.61	0	259 4.25	20 0.42	42 1.18	1.0	--	24	35	355	4.7	136	0	Grab sample
7-14-59	557			7.1	24 1.70	14 1.18	53 2.30	6.7 0.17	2.2 0.18	0	198 3.24	20 0.42	23 0.93	45 0.72	17 0.54	--	20	354 ^b	42	144	0	Grab sample		
2-19-60	768			7.8	25 1.25	18 1.51	74 3.22	11 0.28	26 1.84	0	253 5.78	27 0.56	43 1.21	16 0.26	26 ^e	--	23	473 ^b	4.4	138	0	Grab sample		
8-10-60	610			--	--	--	62 2.70	--	--	--	--	--	9 1.38	--	--	--	2	--	--	--	--	--	Grab sample	
4-12-61	673			7.0	--	--	--	--	--	--	--	--	42 1.18	--	--	0.2	0.05	--	--	--	--	--	Grab sample	
1-9-62	691			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Grab sample	
4-5-62	752			7.3	26 1.32	17 1.43	100 4.35	10 0.27	--	--	0	280 4.72	29 0.62	69 1.83	8 0.14	--	1.8	17	530	58	138	0	Grab sample	
7-16-56	698			7.2	29 1.45	6.7 0.55	92 4.00	6.8 0.17	15 0.83	0	200 3.28	50 1.25	60 1.60	78 2.20	0.4 0.01	--	0.2	16	453	57	100	0	Grab sample	
7-23-57	700			7.2	28 1.40	4.2 0.40	92 4.00	7.4 0.19	15 0.83	0	177 2.90	17 1.60	76 2.14	0.4 0.01	--	2.0	17	455	59	90	0	Grab sample		

(a) Sum of analyzed constituents.
 (d) Sum of calcium and magnesium.
 (e) Ortho-Phosphate.

TABLE C-5 (continued)
MINERAL ANALYSES OF WASTE WATER
 CLEVELAND VALLEY WASTEWATER (10, 5)

Number	Source	Date Sampled	Specific conductance (micro-mhos/cm at 25°C)	pH	Mineral constituents in parts per million equivalents per million										Total dissolved solids (ppm)	Per cent sodium (ppm)	Hardness as CaCO ₃		Remarks	
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)			Phosphate (PO ₄)	Fluoride (F)		Boron (B)
54	City of Bakersfield - Plant No. 2 (Continued)	8-15-60	604	--	27 2.48	--	--	--	--	--	--	4.0 1.13	--	--	--	0.8	--	--	--	24-Hour Composite Flow = 8.1 MGD
		4-11-61	767	7.0	77 3.35	11 0.28	--	--	--	--	58 1.64	--	--	0.0 0.00	0.4	--	97	--	Urab sample 4 - 6.5 MGD	
		8-30-61	599	8.1	31 1.35	77 0.63	3.6 0.24	1.5 0.08	0.0	2.1 3.95	4.3 0.63	1.3 1.21	28 ^e	0.4 0.02	0.4	32	109	0		
		7-16-56	568	6.9	19 0.95	16 1.13	8.2 2.70	0.21	0.0	1.85 3.03	4.7 1.02	8.4 0.14	--	0.4 0.11	0.4	33	114	0		
		7-26-57	526	7.1	27 1.35	24 0.77	2.2 2.26	0.21	0.0	1.6 2.39	2.8 1.21	2.2 0.04	--	2.0 0.11	2.0	20	106	0		
		7-13-59	569	7.3	30 1.50	20 0.74	7.3 2.48	0.19	0.0	1.8 3.02	4.7 0.78	1.2 0.02	21 0.66	--	0.1 0.2	26	112	0	Urab sample	
		8-17-60	583	--	--	57 2.48	--	--	--	--	--	19 1.10	--	--	--	--	--	--	--	
		4-11-61	793	6.9	16 1.66	--	98 4.26	11 0.28	--	--	--	98 2.76	--	--	0.6 0.03	0.2	--	83	--	
		4-4-62	615	7.4	16 0.78	11 0.94	92 4.30	12 0.30	--	0.0	2.4 4.00	5.0 1.10	0.0	--	1.8 0.09	0.44	26	86	0	
		56	City of Taft	7-17-56	800	7.0	10 0.50	12 0.96	107 4.65	21 0.36	27 1.61	0.0	3.7 5.39	6.8 1.42	1.6 0.01	--	0.66	40	73	0
7-24-57	681			7.1	17 0.85	7.2 0.59	26 4.18	14 0.36	6.5 0.36	0.0	2.5 3.69	4.5 0.94	2.2 1.30	4.0 0.21	0.28	35	72	0		
7-13-59	811			7.2	10 0.50	7.3 0.60	102 4.44	11 0.36	26 2.00	0.0	2.8 4.65	5.2 1.10	1.3 0.02	--	0.2	22	55	0		
8-16-60	813			--	--	103 4.48	--	--	--	--	60 1.69	--	--	--	1.2	--	--	--	Urab sample	
4-11-61	844			6.9	--	--	--	--	--	--	64 1.80	--	--	0.6 0.03	--	--	--	--		
4-4-62	854			7.3	2 0.17	3 0.28	154 6.70	15 0.39	0.0	103 4.97	4.2 1.02	0.0	0.0	0.0 0.00	0.26	24	38	0		

(a) Sum of analyzed constituents.
 (d) Sum of calcium and magnesium.
 (e) Ortho-phosphate.

TABLE C-6
MINERAL ANALYSES OF WASTE WATER

LAWRENCE REPORT (Vol. 9)

Number	Source	Date Sampled	Specific conductivity (micro-mhos at 25°C)	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Per cent sodium	Hardness as CaCO ₃ Total (ppm)	N.C. (ppm)	Remarks								
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonates (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)						Fluoride (F)	Boron (B)	Silica (SiO ₂)					
1	Suanville Consolidated Sanitary District	5-1-59	508	9.1	22	31	60	14.5	6.8	18	2.95	17	34	10	21	0.9	0.23	112	0	0.23	0						
					1.10	1.11	2.61	0.37	0.60	0.30	0.35	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76			
					7.7	17	57	14	21	0.00	3.28	18	95	38	0.41	0.48	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
					5.5	23	38	53	11	0.00	2.45	6.2	29	0.0	0.25	0.13	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
2	South Tahoe Public Utilities District	5-5-59	533	7.9	1.45	0.31	4.30	0.28	2.16	0.00	4.02	0.13	0.82	0.00	0.79	0.67	73	0	0.67	0							
					1.45	0.31	4.30	0.28	2.16	0.00	4.02	0.13	0.82	0.00	0.79	0.67	0.79	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67		
					7.3	17	62	13	21	0.00	1.68	18	49	1.8	0.00	0.37	1.38	0.03	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
					5.5	0.85	0.19	2.70	0.33	1.16	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	City of Bishop	7-31-58	309	6.9	6	24	7.0	0.74	0.00	0.00	2.05	0.23	0.45	0.00	0.03	0.40	67	0	0.40	0							
					6	24	7.0	0.74	0.00	0.00	2.05	0.23	0.45	0.00	0.03	0.40	0.03	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40		
					7.3	23	119	9.6	11.2	0.00	1.76	123	123	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
					5.5	1.54	1.90	5.13	0.25	0.00	2.59	2.55	3.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	U. S. Naval Ordnance Test Station China Lake	7-20-56	300	7.8	31	23	119	9.6	11.2	0.00	1.76	123	123	0	0.00	0.00	0.00	0.00	0.00	0.00							
					31	23	119	9.6	11.2	0.00	1.76	123	123	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
					7.6	11	121	12	14	0.00	2.46	101	131	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
					8.9	0.77	0.77	0.39	0.72	0.32	1.42	11.6	151	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Edwards Air Force Base	7-20-56	900	8.5	28	15	154	2.6	3.1	7.0	5.03	2.10	83	0	0.45	47	131	0	4.45	47							
					28	15	154	2.6	3.1	7.0	5.03	2.10	83	0	0.45	47	0.45	47	0.45	47	0.45	47	0.45	47	0.45	47	
					7.3	24	121	12	14	0.00	2.96	64	106	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
					8.9	1.04	1.22	6.69	0.07	0.00	3.07	101	83	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Lancaster (Los Angeles County Sanitation District No. 14)	7-19-56	890	7.1	32	6.2	128	3.6	0.00	0.00	2.72	0.26	1.93	0.04	0.01	20	105	0	0.01	20							
					32	6.2	128	3.6	0.00	0.00	2.72	0.26	1.93	0.04	0.01	20	0.01	20	0.01	20	0.01	20	0.01	20	0.01	20	
					7.1	13	143	19	6.1	0.00	3.73	32	70	1.16	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
					8.6	1.91	1.73	7.40	0.34	0.26	5.63	3.15	2.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	Palmdale (Los Angeles County Sanitation District No. 20)	5-23-60	1,121	9.6	20	5	235	15	4.4	57	337	72	139	2	0.00	37	820	0	0.00	37							
					20	5	235	15	4.4	57	337	72	139	2	0.00	37	0.00	37	0.00	37	0.00	37	0.00	37	0.00	37	
					8.7	14	14	239	23	17	356	59	11.1	0	0.00	1.23	3.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
					8.8	36	8.5	130	2.0	0.00	4.07	42	88	5.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Palmdale (Los Angeles County Sanitation District No. 20)	8-2-58	1,212	9.3	3	3	232	40	0.54	14	270	130	142	0.88	1.1	1.9	793	0	1.1	1.9							
					3	3	232	40	0.54	14	270	130	142	0.88	1.1	1.9	0.88	1.1	1.9	0.88	1.1	1.9	0.88	1.1	1.9		
					9.1	16	11	120	17	11	208	70	88	1	0.00	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
					9.1	16	11	120	17	11	208	70	88	1	0.00	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

8 - Summation

TABLE 2-6 (continued)
MINERAL ANALYSES OF WASTE WATER

LAURENCE HUBBARD (M.C., D.)

Number	Source	Date Sampled	Specific conductance (micro-mhos at 25°C)	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Percent sodium	Hardness as CaCO ₃	Remarks			
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)					Phosphate (PO ₄)	Fluoride (F)	Boric acid (B)
7	Palmdale (Los Angeles County Sanitation District No. 20) - (Continued) Victorville Sanitary District	6-25-62	760	9.3	1.0	1.2	1.0	1.8	3.9	1.63	7.0	2.51	0.01	0.03	1.7	4.2	555	74	0	Grab	
		7-20-56	700	6.8	2.3	0.76	2.50	0.76	1.9	2.76	4.32	3.1	0.04	0.01	0.1	2.4	516	56	0	Grab	
		8-1-56	608	6.9	2.0	0.20	0.50	0.20	0.2	0.37	3.00	0.23	0.00	0.00	1.5	2.3	402	54	0	Grab	
		9-24-60	672	7.6	1.0	0.30	0.75	1.0	0.6	0.63	1.75	0.25	0.00	0.00	0.7	3.2	470	60	0	Grab	
		9-29-61	618	7.0	1.1	0.75	0.70	0.70	0.5	0.8	2.81	0.10	0.00	0.00	1.7	3.2	360	61	0	Grab	
		3-20-62	809	7.9	1.2	0.5	0.70	0.70	0.8	0.7	3.13	0.30	0.00	0.00	1.9	2.4	417	47	0	Grab	
		4-15-56	1,189	7.5	3.7	1.04	1.04	1.04	2.0	4.2	6.92	1.74	0.00	0.00	1.2	2.2	625	47	0	Grab	
		7-20-56	990	7.3	6.4	1.6	1.30	1.30	1.6	2.9	3.20	0.07	0.00	0.00	0.4	2.8	760	58	0	Grab	
		1-15-57	1,510	8.3	8.0	1.8	1.75	1.75	1.5	2.0	3.90	0.37	0.00	0.00	1.3	3.6	724	53	0	Grab	
		8-1-56	1,260	7.2	2.9	2.3	1.90	1.90	1.4	2.6	5.06	0.31	0.00	0.00	1.0	3.4	1,411	52	0	Grab	
9	City of Easton	10-15-53	--	7.4	2.1	1.70	1.70	1.2	1.8	0.79	0.00	0.00	0.00	0.9	--	812	50	0	Grab		
		2-3-59	--	7.7	2.0	1.67	1.67	1.4	1.4	0.22	0.00	0.00	0.00	1.6	--	604	56	0	Grab		
		4-9-59	--	7.3	4.4	2.6	2.10	2.10	1.6	2.6	4.74	0.36	0.00	0.00	0.8	--	1,015	51	0	Grab	
		5-24-60	1,368	7.4	1.6	1.31	1.31	1.2	0.8	0.37	0.00	0.00	0.00	0.7	2.8	930	52	0	Grab		
		4-17-61	1,376	7.4	2.1	1.75	1.75	1.4	1.4	0.00	0.00	0.00	0.00	1.2	3.4	815	53	0	Grab		
		11-10-61	1,363	7.5	4.5	2.4	2.25	2.25	1.5	3.9	4.71	0.30	0.00	0.00	0.9	--	766	53	0	Grab	
		11-15-55	--	7.8	6.2	1.1	1.1	1.1	1.1	--	0.00	0.00	0.00	0.00	0.3	--	530	--	--	Grab	
		4-17-56	2,000	7.4	2.7	2.22	2.22	2.03	2.03	0.00	0.00	0.00	0.00	--	--	1,115	--	250	0	Grab	
		4-10-59	--	7.5	2.1	2.00	2.00	2.00	2.00	3.4	0.00	0.00	0.00	0.00	3.6	--	836	--	215	0	Grab
		5-7-59	--	8.0	5.4	2.1	2.35	2.35	2.35	--	0.00	0.00	0.00	0.00	4.0	--	995	--	220	0	Grab
5-24-60	1,432	9.9	1.3	0.41	0.41	0.41	0.41	0.4	0.03	0.03	0.03	0.03	2.9	1.3	965	79	0	Grab			
10	U. S. Marine Corps Supply Center New Plant	4-17-56	2,000	7.4	2.7	2.22	2.22	2.03	2.03	0.00	0.00	0.00	0.00	--	--	1,115	--	250	0	Grab	
		4-10-59	--	7.5	2.1	2.00	2.00	2.00	2.00	3.4	0.00	0.00	0.00	3.6	--	836	--	215	0	Grab	
		5-7-59	--	8.0	5.4	2.1	2.35	2.35	2.35	--	0.00	0.00	0.00	4.0	--	995	--	220	0	Grab	
		5-24-60	1,432	9.9	1.3	0.41	0.41	0.41	0.41	0.4	0.03	0.03	0.03	2.9	1.3	965	79	0	Grab		

TABLE C-6 (continued)
MINERAL ANALYSES OF WASTE WATER
 LANGRISH REGION (NO. 6)

Number	Source	Date Sampled	Specific conductivity (micro mhos at 25°C)	pH	Mineral constituents in parts per million equivalents per million								Total dissolved solids (ppm)	Percent sodium (ppm)	Hardness as CaCO ₃		Remarks				
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)			Chloride (Cl)	Nitrate (NO ₃)		Phosphate (PO ₄)	Fluoride (F)	Boron (B)	Silica (SiO ₂)
10	U.S. Marine Corps Supply Center Hebo Plant - (continued)	4-17-61	1,753	7.2	72 3,579	1.8 1,703	226 9,783	12 0.31	17 0.92	0 0.00	395 0.78	207 4.32	169 4.77	6.2 0.10	3.2 0.17	1.2 4.3	935	61	254	0	Grab

TABLE C-7
MINERAL ANALYSES OF WASTE WATER

COLORADO RIVER BASIN REGION (NO. 7)

Number	Source	Date Sampled	Specific conductance (micro-mhos at 25°C)	pH	Mineral constituents in parts per million equivalents per million										Total dissolved solids (ppm)	Per cent sodium	Hardness as CaCO ₃		Remarks	
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)			Phosphate (PO ₄)	Fluoride (F)		Barium (Ba)
1	City of Banning	7-25-58	978	7.4	17	1.40	105	17	37	0	4.05	37	70	1.0	2.8	0.28	35	156	0	Grab
		5-25-60	1,029	7.7	11.5	1.05	4.57	0.42	2.06	0.00	6.96	0.77	33	0.02	0.15	0.6	10	139	0	Grab
		6-28-62	711	7.1	29	3.20	74	12	34	0.00	7.75	1.51	43	0.00	0.02	0	23	160	0	Grab
		1-27-59	869	7.2	40	2.00	8.79	15	39	0.00	4.71	2.11	61	0.00	0.7	0.32	20	140	0	Grab
		5-25-60	666	7.6	26	1.30	71	9	16	0.00	3.59	1.21	52	0.00	0.2	0.28	20	102	0	Grab
		6-28-62	753	9.3	12	0.60	4.90	11.3	15	1.59	2.87	4.70	35	0.00	1.1	0.01	0	79	0	Grab
3	Indio Sanitary District	7-23-56	580	6.7	40	2.00	1.9	9.2	1.6	0.00	2.17	67	25	0.00	0.2	0	24	178	0	Grab
		7-22-58	537	7.2	32	1.59	9	8.4	1.3	0.00	2.65	34	35	0.10	0.10	15	115	0	Grab	
		5-25-60	645	7.6	27	1.37	11	13	9.7	0.00	3.61	1.06	48	0.00	1.0	0.46	22	115	0	Grab
		6-27-62	681	8.2	27	1.35	14	82	12	0.00	2.34	42	58	0.00	3.0	0	27	125	0	Grab
		7-23-56	650	9.4	35	1.73	67	12	0.54	25	1.54	34	52	0.00	3.8	0.0	56	128	0	Grab
		7-25-58	398	7.1	22	1.10	7	35	7.2	8.6	0.00	1.46	18	32	0.00	1.2	0.44	30	86	0
5	U. S. Marine Corps Training Center, Twentynine Palms	5-25-60	731	7.1	33	1.66	8	9	15	0.00	2.21	5	22	0.00	1.6	0.08	28	116	0	Grab
		6-28-62	582	9.5	11	0.55	10	10	0.00	1.80	0.57	27	85	0.22	7.0	0.03	19	68	0	Grab
		7-23-56	550	8.1	20	1.00	7.1	90	7.0	0.00	2.36	1.60	54	0.00	1.0	0.0	24	79	0	Grab
		7-25-58	1,323	7.6	27	1.34	6	222	12	0.80	1.59	2.60	169	0.00	2.1	0.07	33	62	0	Grab
		6-1-60	756	7.5	17	0.90	6	11.4	7	0.00	1.75	90	77	0.00	1.8	0.15	20	67	0	Grab
		6-28-62	544	9.6	9	0.42	2	107	8	0.00	1.73	56	63	0.00	2.0	0.05	28	34	0	Grab
6	City of Brawley	7-26-58	1,410	7.0	98	4.92	159	8.0	0.00	3.70	3.27	146	0.00	0.21	0.01	9.8	422	237	Grab	
		7-22-58	1,320	7.3	58	2.92	129	8.8	1.3	0.00	3.71	116	0.00	5	0.16	15	342	156	Grab	

TABLE 6-7 (continued)
MINERAL ANALYSES OF WASTE WATER
COLORADO RIVER BASIN REGION (NO. 7)

Number	Source	Date Sampled	Specific conductance (micro-mhos at 25°C)	pH	Mineral constituents in parts per million											Total dissolved solids (ppm)	Hardness as CaCO ₃ Total (ppm)	N.C. (ppm)	Remarks							
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Phosphate (PO ₄)					Fluoride (F)	Barium (Ba)	Silica (SiO ₂)				
6	City of Brawley (continued)	6-9-60	1,505	7.4	79	38	159	7	20	0	269	345	137	0	20	0.06	0.22	16	1,055	45	354	133	Grab			
					3.97	3.10	6.90	0.30	1.11	0.00	4.12	7.15	3.74	0.00	0.00	0.00	0.00	0.03	0.82	23	385	66		15 hr. composite		
					45	52	235	15	37	0	316	395	171	0	39	5.4	0.29	0.11	0.13	2.336	55	789			267	Grab
7	City of El Centro	7-26-56	3,080	7.2	178	84	140	12	11	0	637	158	780	0	0	0.1	0.40	19	2,694	59	761	561	Grab			
					8.90	6.87	19.15	0.31	0.59	0.00	10.44	3.30	21.97	0.00	0.00	0.00	0.00	0.02	0.68	22	3,405	60		998	888	Grab
					0.9	1.76	5.36	18	9.9	0	244	386	279	0	14	0.28	0.14	0.02	0.46	19	2,694	59		761	561	
8	City of Boltville	6-9-60	5,264	9.0	229	103	708	9	11	12	207	478	1,760	0	3	0.38	0.67	35	3,315	53	464	872	Grab			
					11.44	3.72	30.90	0.38	0.61	0.40	3.40	9.96	38.86	0.00	0.11	0.02	0.02	0.2	12	1,160	55	403		1	Grab	
					7.1	93	41	290	12	0	246	379	232	0	0.35	0.32	0.00	0.00	0.40	13	1,140	59		316		165
9	City of Needles	7-25-56	1,650	7.1	284	90	604	22	25	0	254	468	1,384	0	17	0.46	0.67	35	3,315	53	464	872	Grab			
					4.76	3.39	10.00	0.20	0.55	0.00	4.04	7.88	6.54	0.00	0.00	0.00	0.00	0.02	0.40	13	1,140	59		316	165	Grab
					7.5	44	214	8.4	0.90	0.00	184	289	219	20	0.32	0.25	0.00	0.00	0.40	13	1,140	59		316	165	
10	City of Blythe	6-9-60	1,848	7.6	73	39	237	6	6.4	0	179	325	234	34	29	1.3	1.3	10	1,215	58	343	196	Grab			
					3.66	3.20	10.3	0.28	0.35	0.00	2.94	6.77	6.59	0.55	0.79	0.09	0.05	0.80	10	945	61	219		51	15 hr. composite	
					7.0	25	209	8	23	0	204	210	235	0	0.79	0.79	0.00	0.00	0.80	10	945	61		219		51
9	City of Needles	7-22-56	1,800	6.6	98	42	294	12	9.9	0	295	362	299	0	--	0.6	0.25	36	1,496	60	418	176	Grab			
					4.90	3.46	12.90	0.32	0.55	0.00	4.34	7.55	6.43	0.00	--	0.00	0.00	0.6	0.25	36	1,496	60		418	176	Grab
					7.4	60	373	18	0.72	0	488	495	376	0	2.5	1.9	0.00	0.00	0.50	44	1,895	58		552	177	
10	City of Blythe	8-1-58	2,711	7.4	123	46	346	24	3.0	0	394	495	372	2	4.7	0.8	0.14	33	1,731	57	461	187	Grab			
					6.14	4.90	16.20	0.45	0.04	0.00	7.50	10.31	10.45	0.03	0.15	0.04	0.00	0.14	33	1,731	57	461		187	Grab	
					7.1	120	65	410	5.2	--	0	437	188	0	--	0.2	0.01	0.0	0.2	26	1,276	39		565		207
10	City of Blythe	8-22-56	1,590	7.1	600	5.30	7.39	0.13	1.44	0.00	375	335	178	0	5.7	0.20	0.60	19	1,014	43	505	197	Grab			
					6.00	5.30	7.39	0.13	1.44	0.00	375	335	178	0	5.7	0.20	0.60	19	1,014	43	505	197		Grab		
					7.5	126	46	177	6.5	0.08	6.15	6.97	5.01	0.00	0.18	0.01	0.00	0.00	0.2	26	1,276	39			565	207
10	City of Blythe	8-1-58	1,707	7.5	770	6.30	7.70	0.17	1.44	0.00	496	236	196	0	24	0.2	0.08	23	1,244	45	413	39	Grab			
					6.30	7.70	0.17	1.44	0.00	496	236	196	0	24	0.2	0.08	23	1,244	45	413	39	Grab				
					7.4	111	33	191	10	25	0	496	236	196	0	24	0.2	0.08	23	1,244	45			413	39	Grab
10	City of Blythe	5-18-60	1,809	7.4	111	33	191	10	25	0	496	236	196	0	24	0.2	0.08	23	1,244	45	413	39	Grab			
					5.95	2.71	8.30	0.27	1.41	0.00	317	318	100	80	--	--	0.09	1.48	39	1,166	55	412		152	Grab	
					7.6	102	38	235	10	--	0	317	318	100	80	--	--	0.09	1.48	39	1,166	55		412		152
10	City of Blythe	6-6-62	1,883	7.6	102	38	235	10	--	0	317	318	100	80	--	--	0.09	1.48	39	1,166	55	412	152	Grab		
					5.09	3.15	10.22	0.28	1.41	0.00	317	318	100	80	--	--	0.09	1.48	39	1,166	55	412	152		Grab	
					7.6	102	38	235	10	--	0	317	318	100	80	--	--	0.09	1.48	39	1,166	55	412			152

TABLE C-8
MINERAL ANALYSES OF WASTE WATER

APDA Air Pollution Lab.

Number	Source	Date Sampled	Specific conductivity (micro-ohm-cm at 25°C)	pH	Mineral constituents in parts per million													Total dissolved solids (ppm)	Per cent sodium	Hardness as CaCO ₃ (ppm)	Remarks										
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Phosphate (PO ₄)	Fluoride (F)	Barium (Ba)					Silica (SiO ₂)									
1	City of Chino Plant No. 1	3-7-56	818	7.4	54	17	60	18	0	0	217	51	118	0	0	0	0	0	0	0	0	0	0	0	530	37	202	24	Grab		
		12-19-56	714	7.4	51	14	64	16	0	0	217	39	77	0	0	0	0	0	0	0	0	0	0	0	0	488	38	184	6	Grab	
		11-1-57	740	6.7	57	16	75	17	9.5	0.00	292	44	60	0	0	0	0	0	0	0	0	0	0	0	0	539	39	206	0	Grab	
		3-17-58	839	7.7	43	19	90	16	0	0	177	62	46	126	0	0	0	0	0	0	0	0	0	0	0	580	49	187	42	Grab	
		9-16-58	924	7.9	46	15	105	12	20	0	366	53	69	0.5	0	0	0	0	0	0	0	0	0	0	0	523	48	174	0	Grab	
		7-24-59	864	7.8	40	18	77	13	26	0	405	21	43	1	0	0	0	0	0	0	0	0	0	0	0	600	39	175	0	Grab	
		1-15-60	1,017	7.3	62	20	60	16	23	0	347	48	14	112	0	0	0	0	0	0	0	0	0	0	0	563	29	237	0	Grab	
		1-18-61	946	7.0	53	24	56	19	17	0	469	36	51	3.0	0	0	0	0	0	0	0	0	0	0	0	495	24	229	0	Grab	
		9-14-61	976	6.7	25	24	93	14	45	0	447	35	62	2.5	0	0	0	0	0	0	0	0	0	0	0	519	40	160	0	Grab	
		1-11-62	1,010	7.6	39	18	88	19	53	0	495	7	66	4.0	0	0	0	0	0	0	0	0	0	0	0	529	36	170	0	Grab	
2	City of Chino Plant No. 2	6-13-56	879	7.5	57	15	80	12	23	0	344	67	68	1.5	0	0	0	0	0	0	0	0	0	0	0	503	39	204	0	Grab	
		12-19-56	864	7.3	56	16	66	14	0	342	49	59	0	0	0	0	0	0	0	0	0	0	0	0	0	480	34	204	0	Grab	
		11-1-57	977	7.4	57	11	114	15	29	0	361	49	131	1.0	0	0	0	0	0	0	0	0	0	0	0	602	47	187	0	Grab	
		2-27-58	883	7.1	49	14	75	14	0	0	268	53	54	0	0	0	0	0	0	0	0	0	0	0	0	472	37	178	0	Grab	
		9-16-58	896	7.9	42	25	78	11	13	0	322	60	68	1.0	0	0	0	0	0	0	0	0	0	0	0	470	40	206	0	Grab	
		5-22-59	--	7.4	54	23	78	14	0	0	351	70	71	0	0	0	0	0	0	0	0	0	0	0	0	485	41	228	--	Grab	
		1-12-60	895	7.1	60	9	79	14	24	0	337	55	70	2.0	0	0	0	0	0	0	0	0	0	0	0	0	517	39	185	0	Grab
		6-30-60	965	8.1	65	13	98	13	24	0	361	65	56	1.0	0	0	0	0	0	0	0	0	0	0	0	0	541	42	215	0	Grab
		10-27-60	874	8.0	47	21	90	14	25	0	327	62	84	1.8	0	0	0	0	0	0	0	0	0	0	0	0	516	40	202	0	Grab
		1-17-61	962	7.4	53	16	91	16	28	0	388	63	74	3.5	0	0	0	0	0	0	0	0	0	0	0	0	595	40	200	0	Grab

TABLE 3-8 (continued)
MINERAL ANALYSES OF WASTE WATER
 SANTA ANA REGION (NO. 8)

Number	Date Sampled	Source	Specific conductance (micro-mhos at 25°C)	pH	Mineral constituents in parts per million equivalents per million												Total dissolved solids (ppm)	Percent sodium	Hardness as CaCO ₃ Total (ppm)	N.C. (ppm)	Remarks			
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Phosphate (PO ₄)	Fluoride (F)						Boron (B)	Silica (SiO ₂)	
3	City of Colton (continued)		1,000	7.3	46	24	98	19	26	0	400	43	85	4.0	28	0.58	0.60	591	41	213	0	Grab		
			983	7.5	44	25	87	15	29	0	376	68	76	2.5	30	1.0	0.57	534	38	210	0	Grab		
			1,070	7.5	44	32	143	12	0	272	155	130	15	10	0.4	10	0.4	0.31	792	55	242	19	Grab	
			1,200	7.8	49	26	152	16	0	239	145	169	16	0.60	0.60	16	0.60	0.22	876	52	279	83	Grab	
			1,332	8.7	80	26	211	15	1.1	205	161	197	37	2.2	1.0	2.2	1.0	0.15	878	53	307	189	Grab	
			1,078	7.3	30	24.3	118	13	1.4	183	168	114	90	1.2	1.2	2.3	0.106	0.35	766	45	291	159	Grab	
5	U. S. Marine Corps Air Station El Toro		1,559	7.7	82	35	214	16	4	0	333	169	245	29	40	4.8	1.8	1,120	55	274	78	Grab		
			1,520	7.3	42	30	290	16	--	236	379	165	10	0.6	0.34	16	0.6	1,108	72	230	37	Grab		
			1,537	7.6	48	23	221	18	17	236	313	144	27	20	1.1	0.54	16	1.1	996	63	214	20	Grab	
			1,590	8.0	68	23	231	16	20	256	288	200	2.5	24	1.4	0.56	16	1.4	974	61	239	29	Grab	
			1,590	7.3	47	23	250	15	22	224	377	192	15	--	1.4	0.68	17	1.4	1,005	65	213	29	Grab	
			1,606	6.8	50	27	235	16	43	282	297	176	0	37	--	0.52	15	--	1,145	57	231	6	Grab	
6	City of Fontana		918	7.3	36	12	75	18	56	0	395	36	75	0.5	--	0.4	0.64	455	34	138	0	Grab		
			907	7.4	41	17	66	16	41	0	388	24	59	0	--	1.0	0.54	417	32	172	0	Grab		
			860	7.6	32	18	55	17	43	386	26	50	0	--	1.2	0.26	--	407	32	153	0	Grab		
			858	7.7	38	13	56	22	24	395	22	45	0	--	0.3	0.34	--	427	28	149	0	Grab		
			879	7.4	29	19	73	14	41	371	44	53	1.2	--	0.15	0.14	--	445	36	151	0	Grab		
			814	7.0	45	9	68	15	36	371	40	45	0.5	1.3	0.36	0.32	25	0.36	419	36	149	0	Grab	
			974	6.8	35	23	84	14	41	376	73	66	2.0	36	0.40	0.44	--	504	38	183	0	Grab		
			923	7.2	37	21	73	16	45	415	48	52	3.0	--	0.62	0.52	--	472	33	178	0	Grab		
			1,185	7.3	37	17.73	317	0.41	27.50	0.00	6.66	1.00	1.47											
			1,185	7.3	37	17.73	317	0.41	27.50	0.00	6.66	1.00	1.47											

TABLE C-8 (continued)
MINERAL ANALYSES OF WASTE WATER

SARITA ANNA REGUION (NO. 8)

Number	Source	Date Sampled	Specific conductance (micro-mhos of 25°C)	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Per cent of CaCO ₃	Remarks						
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)				Fluoride (F)	Boron Silico (B)				
7	Kaiser Steel Corporation Fontana	8-20-58	754	7.1	62	11	47	12	0	0	297	74	0	0	0	0.10	29	476	33	196	0	Grab	
		1-15-60	351	7.1	20	7	27	6.0	0	0	37	31	33	0	0	0.10	72	222	37	76	46	Grab	
		1-18-61	374	6.9	18	5	40	7.4	2.7	0	56	33	35	0	0	1.1	--	251	51	67	21	Grab	
		8- 9-56	1,040	6.2	24	15	168	13	8.5	0	49	195	158	38	2	0.6	0.2	23	764	--	123	83	Grab
		7-24-58	1,226	7.5	28	16	152	15	39	0	234	168	142	1.0	0	1.4	1.8	35	690	56	136	0	Grab
		6-29-60	1,074	7.5	37	12	140	14	16	0	156	119	160	25	15	1.0	1.6	29	658	60	143	13	Grab
9	March Air Force Base West Plant	2- 1-61	1,379	7.3	32	13	210	16	22	0	134	134	45	--	0.8	1.5	15	850	68	135	25	Grab	
		8- 9-56	1,570	7.0	19	22	264	15	3.2	0	24	408	154	12	14	0.6	0.1	18	1,108	80	139	62	Grab
		7-24-58	1,290	7.5	19	17	210	16	14	0	188	264	127	0.5	--	2.4	0.56	20	840	72	123	0	Grab
		6-30-60	1,211	6.5	11	11	198	14	1.4	0	41	267	143	88	40	1.6	0.44	15	816	74	128	93	Grab
		2- 1-61	1,340	6.4	16	23	225	15	0.7	0	27	317	142	92	--	1.5	0.60	12	890	76	135	113	Grab
		3-26-57	1,940	7.7	71	27	274	22	--	0	485	212	206	1.3	--	2.2	0.30	--	1,030	65	288	0	Grab
10	County Sanitation Districts of Orange County Plant No. 1	6- 2-59	1,416	7.5	61	17	192	15	14	0	292	212	180	0	0.15	0.33	23	988	60	225	0	Grab	
		7- 5-60	1,522	7.2	70	21	195	24	32	0	373	242	156	0	26	3.3	0.18	20	947	54	259	0	Grab
		6-28-62	2,524	6.9	88	29	354	33	68	0	496	226	445	0	62	1.3	2.3	--	1,780	58	340	0	Grab
		6- 2-59	5,395	7.6	64	42	973	30	30	0	263	256	1,456	0	0.15	0.56	5.0	22	3,092	85	334	118	Grab
		7- 5-60	6,623	7.2	103	90	1,200	42	40	0	429	341	1,895	7.5	26	1.0	3.1	25	3,956	77	623	275	Grab
		6-27-62	4,703	7.3	84	62	791	27	91	0	795	15	1,210	0.12	4.8	0.93	3.1	--	3,205	70	466	0	Grab
12	City of Ontario-Upland	8- 9-56	1,120	7.3	46	28	152	18	11	0	344	114	141	0	7.9	0.4	0.3	24	732	59	230	0	Grab
		1- 7-58	804	7.2	31	19	90	12	17	0	249	50	70	40	--	1.2	0.96	--	521	48	154	0	Grab

TABLE 1-6 (continued)
MINERAL ANALYSES OF WASTE WATER

Number	Source	Date Sampled	Specific conductance (micro-mhos of 25°C)	pH	Mineral constituents in parts per million equivalents per million										Total dissolved solids (ppm)	Percent alum	Hardness as CaCO ₃		Remarks	
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)			Phosphate (PO ₄)	Fluoride (F)		Barite (B) (SiO ₂)
14	City of Hialeah (continued)	4-12-57	748	7.1	36 1.50	10 0.72	91 3.72	17 0.43	18 0.70	0 0.00	412 17.6	40 1.63	50 2.01	0 0.00	0 0.00	0 0.00	1.4	131	0	Grab
		11- 1-57	706	7.3	40 1.97	12 0.79	75 3.25	29 1.17	49 2.17	0 0.00	361 15.2	44 1.77	61 2.45	0.5 0.01	0 0.00	0 0.00	1.4	465	0	Grab
		7-28-58	835	7.5	26 1.30	12 0.79	91 3.72	10 0.40	32 1.33	0 0.00	339 14.1	35 1.42	61 2.45	1.0 0.02	0 0.00	0 0.00	1.4	550	0	Grab
		7-24-59	842	7.6	35 1.75	16 0.79	78 3.39	13 0.52	35 1.53	0 0.00	351 15.0	40 1.63	68 2.75	2 0.08	0 0.00	0 0.00	1.4	340	0	Grab
		1-12-60	847	7.2	49 2.45	6 0.49	71 3.09	15 0.61	13 0.53	0 0.00	332 14.2	44 1.77	53 2.13	13 0.53	0 0.00	0 0.00	1.4	414	0	Grab
		6-30-60	883	7.8	50 2.50	7 0.58	84 3.65	15 0.61	28 1.17	0 0.00	564 23.4	44 1.77	61 2.45	4.2 0.17	0 0.00	0 0.00	1.4	457	0	Grab
		2- 2-61	955	7.5	37 1.85	12 0.79	83 3.41	14 0.57	59 2.53	0 0.00	429 18.3	38 1.57	73 2.92	0.6 0.02	0 0.00	0 0.00	1.4	451	0	Grab
		9-14-61	840	7.2	32 1.60	19 0.79	79 3.25	15 0.61	31 1.24	0 0.00	369 15.8	43 1.77	54 2.17	1.5 0.06	0 0.00	0 0.00	1.4	446	0	Grab
		1-11-62	892	--	32 1.60	15 0.79	76 3.10	16 0.65	47 2.01	0 0.00	400 17.2	36 1.46	55 2.21	2.5 0.10	0 0.00	0 0.00	1.4	448	0	Grab
		8-11-56	850	7.3	31 1.54	21 0.87	118 4.96	13 0.57	9.5 0.40	0 0.00	239 10.0	65 2.62	108 4.32	14 0.58	0 0.00	0 0.00	1.1	556	0	Grab
		1- 8-57	870	7.0	36 1.80	8 0.60	124 5.39	14 0.57	13 0.53	--	192 8.1	62 2.53	113 4.53	38 1.53	0 0.00	0 0.00	1.4	532	0	Grab
		10- 8-57	759	7.0	31 1.55	12 0.79	140 6.09	14 0.57	3.4 0.14	0 0.00	193 8.1	62 2.53	140 5.61	51 2.04	0 0.00	0 0.00	1.6	552	0	Grab
		3- 4-58	918	7.4	30 1.50	13 0.87	114 4.76	14 0.57	22 0.91	0 0.00	311 12.5	50 2.01	95 3.82	7.9 0.31	0 0.00	0 0.00	1.2	492	0	Grab
		11-11-58	926	6.9	42 2.10	11 0.79	122 5.11	16 0.65	15 0.61	0 0.00	306 12.5	69 2.75	105 4.14	5.6 0.23	0 0.00	0 0.00	1.2	544	0	Grab
5- 5-59	1,064	7.4	33 1.63	18 0.79	123 5.13	11 0.44	--	0 0.00	230 9.2	75 3.01	115 4.53	18 0.72	0 0.00	0 0.00	1.7	634	0	Grab		
12-31-59	1,107	7.4	40 2.00	17 0.79	142 5.74	13 0.57	--	0 0.00	146 5.84	123 4.92	143 5.61	0.7 0.03	0 0.00	0 0.00	1.7	664	0	Grab		
6-28-60	1,032	7.4	53 2.64	15 0.83	126 5.13	16 0.65	13 0.53	0 0.00	259 10.4	114 4.53	120 4.81	13 0.53	0 0.00	0 0.00	1.6	618	0	Grab		
2- 2-61	982	7.3	28 1.40	16 0.79	127 5.13	13 0.57	23 0.91	0 0.00	270 10.8	61 2.45	131 5.21	18 0.72	0 0.00	0 0.00	1.1	591	0	Grab		
10- 4-57	1,840	8.5	189 9.45	43 1.75	201 8.12	1.2 0.05	--	18 0.72	479 19.5	301 12.0	273 10.9	15 0.61	0 0.00	0 0.00	1.2	1,398	0	Grab		
6-28-60	2,179	7.6	178 8.93	37 1.49	240 10.14	24 0.96	13 0.53	0 0.00	561 22.5	360 14.4	262 10.5	1.0 0.04	0 0.00	0 0.00	1.5	1,410	136	Grab		

TABLE C-3 (continued)

MINERAL ANALYSES OF WASTE WATER

SANITA AIAA REGION LUG. 11

Number	Source	Date Sampled	Specific conductance (micro-mhos/cm at 25°C)	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Per cent sodium	Hardness as CaCO ₃ Total (ppm)	Remarks					
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)					Phosphate (PO ₄)	Fluoride (F)	Barium (B)	Silico (SiO ₂)	
16	City of Riverside Plant No. 2 (continued)	2-1-61	2,310	7.7	204	34	272	16	23	0	575	413	288	0	1.1	0.62	36	45	643	178	Grab		
		6-27-62	2,075	7.7	132	35	285	16	14	0	520	255	287	0	0.5	0	24	54	427	48	Grab		
		6-7-55	844	7.3	40	13	100	12	3.2	0	181	66	78	73	--	0.53	--	53	155	7	Grab		
		12-11-55	834	7.2	44	12	102	13	7.5	0	196	73	83	82	--	0.32	--	53	158	30	Grab		
		8-10-56	800	7.2	35	23	76	11	9.5	0	172	61	80	41	6	0.40	24	47	183	42			
		2-14-57	1,377	7.2	40	20	190	24	21	0	281	63	219	50	31	1.6	0.54	--	61	182	0		
		8-10-57	868	7.4	51	13	12	12	5.1	0	239	65	75	30	--	1.2	0.38	--	521	180	Grab		
		1-9-58	1,080	6.9	60	15	100	14	10	0	244	68	134	44	--	1.0	0.50	--	668	49	215	15	Grab
		7-25-58	890	7.2	44	16	99	14	5.0	0	222	61	86	45	--	1.2	0.36	30	550	175	0		
		1-10-59	999	7.2	52	18	105	16	17	0	261	85	99	49	--	1.0	0.46	--	633	46	205	0	
		6-2-59	953	7.3	50	11	110	13	14	0	234	69	103	50	--	0.5	0.54	--	501	52	168	0	
		1-5-60	1,124	7.4	60	11	135	12	11	0	205	68	156	70	--	1.0	0.5	--	690	55	196	28	
		6-29-60	1,030	7.2	60	13	123	15	5.6	0	212	68	142	58	20	1.2	0.56	31	645	53	205	31	
		1-3-61	989	7.3	49	17	110	14	11	0	210	68	123	97	--	1.3	0.41	--	656	50	193	21	
		6-1-61	987	7.4	53	15	116	13	5.6	0	188	48	129	89	20	1.4	0.39	--	623	53	195	41	
		1-29-62	977	7.4	46	16	105	14	12	0	212	81	101	81	--	1.1	0.64	33	650	50	178	4	
6-21-62	1,073	7.4	50	23	122	13	6.6	0	227	64	144	63	32	1.4	0.52	--	667	51	217	31			
11-3-59	1,003	7.8	39	18	88	7.8	3.9	0	373	65	79	4.5	--	1.0	0.30	--	509	40	169	0	Grab		
6-26-60	1,012	7.4	58	11	100	16	10	0	403	70	75	1.0	1.5	1.4	0.12	33	535	40	190	0			
2-28-61	1,090	7.5	30	21	113	16	3.9	0	381	75	82	3.0	1.9	1.2	0.66	--	584	40	162	0			
6-1-61	941	7.4	42	16	104	16	21	0	281	82	76	5.6	4.0	1.2	0.55	--	554	47	172	0			

TABLE G-8 (continued)

MINERAL ANALYSES OF WASTE WATER

SARITA AREA REGION (NO. 8)

Number	Source	Date Sampled	Specific conductivity (micro-ohm-cm at 25°C)	pH	Mineral constituents in parts per million equivalents per million										Total dissolved solids (ppm)	Per cent sodium	Hardness as CaCO ₃ Total (ppm)	N C (ppm)	Remarks				
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)						Phosphate (PO ₄)	Fluoride (F)	Boron (B)	Silica (SiO ₂)
18	City of San Bernardino Plant No. 2 (continued)	1-29-62	1,059	7.6	30	20	37	17	47	0	4.17	71	72	2.5	--	0.90	0.64	33	570	39	172	0	
					1.80	1.64	4.22	0.44	2.60	0.00	6.34	1.47	2.03	0.00	6.34	2.03	0.24	0.05	0.49	--			
19	City of Seal Beach	6-21-62	735	7.3	37	13	84	13	5.2	0	1.73	67	63	62	31	1.1	0.49	--	459	51	143	1	
					1.85	1.07	3.65	0.33	0.29	0.00	2.04	1.39	1.78	0.00	2.04	1.78	0.59	0.06	0.49	--			
19	City of Seal Beach	6-2-59	1,380	7.5	30	11	202	14	8	0	1.66	63	24.1	63	0.17	0.50	1.5	29	878	73	120	0	Grab
					1.49	0.90	6.79	0.36	0.42	0.00	2.56	1.33	6.79	1.02	0.03	2.4	0.72	0.03	1.5	29	821	75	324
19	City of Seal Beach	6-28-60	1,332	7.5	37	10	226	15	5.2	0	1.63	58	25.8	74	30	2.4	0.72	24	985	73	140	0	Grab
					1.85	0.82	3.83	0.38	0.29	0.00	2.60	1.28	7.28	1.19	0.13	2.4	0.76	0.13	0.76	14	985	73	140
20	Talbert Water District	3-26-57	1,940	7.0	71	13	244	22	13	0	1.83	62	292	50	4.8	2.2	0.30	--	1,026	65	288	0	Grab
					1.70	1.30	10.60	0.34	0.71	0.00	2.90	1.28	5.22	0.20	0.12	0.30	--	0.12	0.30	--	1,026	65	288
20	Talbert Water District	4-21-59	2,128	7.3	86	24	300	19	3.3	0	4.83	177	350	2.5	--	1.4	1.4	30	1,283	60	310	0	Grab
					4.29	1.97	13.05	0.49	0.00	0.00	7.92	3.68	9.87	0.04	0.07	1.4	1.4	0.07	1.4	30	1,283	60	310
20	Talbert Water District	6-21-62	1,471	7.8	129	4	161	16	36	0	6.16	69	194	0	1.4	1.7	0.55	23	1,115	43	339	0	Grab
					6.44	0.34	7.00	0.40	1.99	0.00	10.10	1.45	4.34	0.00	0.09	1.7	0.55	0.09	0.55	23	1,115	43	339

TABLE C-9
MINERAL ANALYSES OF WASTE WATER

300 DIBAO B-240R (10, 9)

Number	Source	Date Sampled	Specific conductivity (micro-mhos/cm at 25°C)	pH	Mineral constituents in parts per million equivalents per million													Total dissolved solids (ppm)	Per cent sodium	Hardness as CaCO ₃ Total (ppm)	N.C. (ppm)	Remarks		
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Phosphate (PO ₄)	Fluoride (F)	Barium (Ba)						Silica (SiO ₂)	
1	City of Laguna Beach	8-8-56	1,690	7.2	51	32	310	17	0	0	217	406	204	62	21	0.6	0.14	15	257	79				
		7-7-58	1,850	7.1	50	30	239	17	27	0	276	334	201	1.5	20	1.1	0.40	15	269	42				
		6-28-60	1,730	7.4	41	18	223	16	39	0	359	296	168	0	25	0.67	0.36	11	259	0	Grab			
		6-19-62	1,767	7.0	49	35	258	16	41	0	372	315	185	0	23	0.62	0.51	--	267	0	Grab			
		8-6-56	1,650	8.0	47	46	288	18	--	0	342	145	296	0.04	4	0.56	0.14	32	305	19				
		7-16-58	1,481	7.0	21	46	205	16	--	0	117	165	252	27	54	1.4	0.62	40	960	61	253	157		
2	City of San Clemente	6-28-60	1,325	7.5	30	40	156	17	18	0	195	152	175	25	25	1.41	0.88	21	850	52	240	80		
		1-30-61	1,205	6.7	31	37	156	14	--	0	183	152	152	64	--	3.0	0.58	45	750	58	230	80		
		5-22-62	1,654	6.9	42	47	230	14	5.6	0	189	189	271	69	74	0.88	0.89	33	1,115	60	299	193		
		12-19-56	1,255	7.9	64	31	176	15	--	0	284	132	225	8	--	0.1	0.34	28	964	55	287	54		
		1-16-58	1,240	8.9	58	28	155	--	--	0	26	208	47	207	--	0.6	0.14	21	860	--	258	43		
		7-18-58	1,206	8.6	45	34	172	12	--	0	17	244	120	196	0	--	0.8	0.44	20	760	58	251	23	
3	Camp Joseph H. Pendleton Plant No. 1	9-18-58	1,250	8.1	52	20	161	--	--	7.2	264	121	196	--	25	0.6	0.72	32	876	56	280	61		
		8-59	1,150	9.6	53	20	138	--	--	69	63	22	188	--	--	0.1	0.14	14	770	59	212	60		
		2-25-60	1,190	7.7	53	25	140	--	--	0	225	106	172	14	18	0.5	0.6	12	835	60	242	58		
		6-28-60	1,280	7.8	54	31	159	11	4.7	0	230	124	179	13	14	1.6	0.86	18	865	54	264	75		
		12-19-56	1,045	8.2	54	28	149	11	0.26	0	189	120	173	26	--	0.1	0.18	26	884	56	250	50		
		1-23-58	1,240	8.0	59	25	142	--	--	0	232	63	193	14	12	0.8	0.6	32	830	55	250	--		
4	Camp Joseph H. Pendleton Plant No. 2	9-18-58	1,126	7.8	58	25	150	--	--	0	227	117	188	--	9.2	0.60	0.25	25	780	58	250	--		
		2-25-60	1,210	7.6	62	26	137	--	--	0	252	108	170	24	11	0.5	0.4	30	845	53	260	54		
		6-22-60	1,325	7.7	70	28	155	6	9	0	237	120	211	12	0.48	0.94	0.28	16	890	51	288	94		

TABLE 0-9 (continued)
MINERAL ANALYSES OF WASTE WATER
SAN DIEGO REGION (HC, 3)

Number	Source	Date Sampled	Specific conductance (micro-mhos/cm at 25°C)	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Per cent sodium	Hardness as CaCO ₃ Total (ppm)	N C (ppm)	Remarks			
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)						Fluoride (F)	Bromide (Br)	Silica (SiO ₂)
5	Camp Joseph B. Pendleton Plant No. 3	12-19-56	1,305	7.9	50	28	195	13	--	0	305	129	228	6.5	0.5	0.32	21	500	62	240	0	Grab
		7-18-58	1,276	8.8	38	27	148	1.2	--	24	276	112	198	0	1.8	0.40	40	820	64	207	0	Grab
		1-23-58	1,460	7.6	50	26	209	--	--	--	334	75	217	2.7	--	2.4	32	1,100	66	231	--	Grab
		8-59	1,435	9.2	17	22	259	--	--	41	156	84	242	--	--	0.4	26	1,005	74	210	0	Grab
		2-25-60	1,490	8.1	16	35	203	--	--	--	370	146	190	18	4	0.50	31	1,040	--	252	--	Grab
		6-27-60	1,624	7.8	53	21	232	10	2	0	255	123	282	15	18	0.70	11	1,065	68	218	9	Grab
		8-6-58	2,350	7.7	112	59	310	18	30	0	378	360	410	0	0	0.23	21	1,332	52	523	213	Grab
		7-17-58	2,538	7.0	112	57	300	17	40	0	417	283	457	0	0	0.8	20	--	--	514	172	Grab (Mhelan Lake)
		3-14-59	1,670	8.0	145	16	310	--	--	0	365	300	340	0.40	60	0.7	2.2	--	--	428	128	Grab (Mhelan Lake)
		9-16-59	2,350	7.8	160	27	240	--	--	0	390	275	410	--	--	0.9	0.92	--	--	510	190	Grab (Mhelan Lake)
6	City of Oceanside	3-8-60	2,000	7.2	120	38	125	--	--	0	342	375	407	0.15	0.95	0.98	--	--	37	455	175	Grab (Mhelan Lake)
		2-15-61	3,010	7.6	104	54	470	--	--	0	366	460	510	0.15	0.7	0.65	16	1,744	68	482	182	Grab (Mhelan Lake)
		9-28-61	2,809	7.7	116	67	355	22	31	0	464	325	514	5.0	0.62	0.88	22	1,640	53	564	184	Grab (Mhelan Lake)
		6-20-62	2,613	7.2	143	56	294	16	47	0	494	287	447	0	0	0.46	--	1,825	46	589	184	Grab (Mhelan Lake)
		10-22-57	3,355	7.3	128	56	552	23	--	0	211	341	874	0.18	1.7	0.30	16	2,515	67	550	377	Grab
		6-19-59	5,423	7.6	171	131	812	30	19	0	361	324	425	16	0.67	0.69	22	3,593	63	966	67	Grab
		6-20-60	3,938	7.8	123	104	541	25	9	13	305	317	210	18	26	0.52	37	2,570	60	736	464	Grab
		5-10-62	2,565	7.4	114	83	492	19	3.2	0	263	279	769	10	34	1.7	16	2,080	62	626	412	Grab
		7-18-58	1,560	7.4	69	49	162	2.4	--	0	368	428	280	0	--	1.0	10	970	44	374	72	Grab
		3-9-60	1,861	7.3	73	80	186	11	--	0	249	157	352	14	--	0.48	39	1,255	43	515	229	Grab
7	City of Carlsbad	12-19-56	1,305	7.9	50	28	195	13	--	0	305	129	228	6.5	0.5	0.32	21	500	62	240	0	Grab
		7-18-58	1,276	8.8	38	27	148	1.2	--	24	276	112	198	0	1.8	0.40	40	820	64	207	0	Grab
		1-23-58	1,460	7.6	50	26	209	--	--	--	334	75	217	2.7	--	2.4	32	1,100	66	231	--	Grab
		8-59	1,435	9.2	17	22	259	--	--	41	156	84	242	--	--	0.4	26	1,005	74	210	0	Grab
		2-25-60	1,490	8.1	16	35	203	--	--	--	370	146	190	18	4	0.50	31	1,040	--	252	--	Grab
		6-27-60	1,624	7.8	53	21	232	10	2	0	255	123	282	15	18	0.70	11	1,065	68	218	9	Grab
		8-6-58	2,350	7.7	112	59	310	18	30	0	378	360	410	0	0	0.23	21	1,332	52	523	213	Grab
		7-17-58	2,538	7.0	112	57	300	17	40	0	417	283	457	0	0	0.8	20	--	--	514	172	Grab (Mhelan Lake)
		3-14-59	1,670	8.0	145	16	310	--	--	0	365	300	340	0.40	60	0.7	2.2	--	--	428	128	Grab (Mhelan Lake)
		9-16-59	2,350	7.8	160	27	240	--	--	0	390	275	410	--	--	0.9	0.92	--	--	510	190	Grab (Mhelan Lake)
8	Vista Sanitation District	3-8-60	2,000	7.2	120	38	125	--	--	0	342	375	407	0.15	0.95	0.98	--	--	37	455	175	Grab (Mhelan Lake)
		2-15-61	3,010	7.6	104	54	470	--	--	0	366	460	510	0.15	0.7	0.65	16	1,744	68	482	182	Grab (Mhelan Lake)
		9-28-61	2,809	7.7	116	67	355	22	31	0	464	325	514	5.0	0.62	0.88	22	1,640	53	564	184	Grab (Mhelan Lake)
		6-20-62	2,613	7.2	143	56	294	16	47	0	494	287	447	0	0	0.46	--	1,825	46	589	184	Grab (Mhelan Lake)
		10-22-57	3,355	7.3	128	56	552	23	--	0	211	341	874	0.18	1.7	0.30	16	2,515	67	550	377	Grab
		6-19-59	5,423	7.6	171	131	812	30	19	0	361	324	425	16	0.67	0.69	22	3,593	63	966	67	Grab
		6-20-60	3,938	7.8	123	104	541	25	9	13	305	317	210	18	26	0.52	37	2,570	60	736	464	Grab
		5-10-62	2,565	7.4	114	83	492	19	3.2	0	263	279	769	10	34	1.7	16	2,080	62	626	412	Grab
		7-18-58	1,560	7.4	69	49	162	2.4	--	0	368	428	280	0	--	1.0	10	970	44	374	72	Grab
		3-9-60	1,861	7.3	73	80	186	11	--	0	249	157	352	14	--	0.48	39	1,255	43	515	229	Grab

TABLE 0-9 (continued)
MINERAL ANALYSES OF WASTE WATER
 SAN DIEGO REGION (NO. 9)

Number	Source	Date Sampled	Specific conductance (micro mhos at 25°C)	pH	Mineral constituents in parts per million										Total dissolved solids (ppm)	Hardness as CaCO ₃ (ppm)	Remarks							
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)				Phosphate (PO ₄)	Fluoride (F)	Boron (B)	Silica (SiO ₂)			
8	Vista Sanitation District (continued)	6-27-60	1,604	9.0	79 3-93	41 3-35	187 5-15	12 0-30	18 0-99	20 0-68	205 4-66	265 7-35	167 4-66	261 7-35	1 0-01	1.3 0-42	0.30 0-02	0.56 20	1,095	49	364	131	Grab	
		5-2-62	1,847	7.2	96 4-00	216 4-08	216 9-40	13 0-34	34 1-87	0 0-00	426 9-93	286 4-45	213 6-93	286 4-45	0 0-00	0 0-00	11	1.07 0-06	0.10 26	1,360	46	444	95	Grab
		7-16-58	1,727	7.2	50 2-50	34 2-79	220 10-0	19 0-49	--	0 0-00	382 4-63	197 7-67	272 4-11	197 4-11	19 0-29	--	0.89 0-04	0.52 25	1,080	59	264	32	Grab	
		10-15-58	--	--	60 20	20 20	180 20	20 20	--	--	233	240	240	233	--	66	--	2.2	--	--	--	--	--	Grab
		10-15-59	--	--	67 29	29 29	190 29	18 18	--	--	344	246	246	344	--	44	--	0.97	--	--	--	--	--	Grab
9	City of Escondido Plant No. 1	6-28-60	1,846	7.6	62 3-12	35 2-94	239 10-40	16 0-40	28 1-55	0 0-00	287 4-70	251 5-23	269 4-70	269 5-23	13 0-22	32 1-02	1.7 0-09	0.72 7	1,245	56	303	63	Grab	
		1-12-61	1,860	7.2	65 3-24	46 3-33	260 11-30	18 0-47	12 0-00	0 0-00	262 4-30	282 6-80	327 7-95	282 6-80	12 0-20	--	0.60 0-03	0.59 30	1,220	60	354	139	Grab	
		4-26-62	2,185	7.9	81 4-04	49 4-04	294 12-30	16 0-42	--	0 0-00	232 4-38	308 6-43	308 6-43	308 6-43	16 0-26	--	1.9 0-10	0.58 20	1,455	60	404	214	Grab	
		6-28-60	1,931	7.3	77 3-06	41 3-06	199 8-65	14 0-35	32 1-77	0 0-00	279 4-58	234 5-11	288 5-11	234 4-76	8 0-13	11	1.0 0-05	0.42 9	1,225	48	365	136	Grab	
		1-12-61	2,100	6.4	75 3-76	45 3-74	295 12-25	20 0-51	0.88 0-05	0 0-00	122 2-00	338 7-04	447 11-75	447 7-04	7.3 0-12	--	0.80 0-04	0.71 25	1,402	62	375	275	Grab	
10	City of Escondido Plant No. 2	4-26-62	1,986	7.9	73 3-66	54 4-44	262 11-40	16 0-40	--	0 0-00	124 2-03	333 6-95	321 6-95	0 0-00	1	2.1 0-11	0.86 11	1,305	57	405	303	Grab		
		6-17-59	1,902	8.0	76 3-80	36 2-97	252 10-95	18 0-45	19 1-07	0 0-00	312 5-12	265 5-52	294 8-28	0 0-00	0	1.68 0-05	0.85 26	1,303	57	339	43	Grab		
		6-21-60	1,718	7.8	67 3-33	35 2-85	209 9-10	12 0-30	0 0-00	0 0-00	190 3-11	359 10-11	359 10-11	0 0-00	0	1.39 0-07	0.82 23	1,080	58	309	194	Grab		
		10-23-61	1,650	7.4	85 4-24	33 2-71	212 9-22	22 0-56	28 1-53	0 0-00	322 5-40	301 6-03	301 6-03	2.5 0-04	5.3	0.40 0-02	0.84 21	1,100	51	346	76	Grab		
		2-8-62	1,707	7.3	88 4-39	31 2-55	190 8-27	17 0-44	36 1-10	0 0-00	364 5-96	286 5-96	193 5-44	193 5-44	2.5 0-04	1.6	0.44 0-02	0.69 18	1,030	47	348	50	Grab	
11	Santee County Water District	2-20-56	2,080	6.7	97 4-87	42 3-42	262 11-40	17 0-00	0 0-00	137 2-24	335 9-05	321 9-05	0 0-00	11.3	--	1.4 0-07	0.40 11	1,358	55	411	303	Grab		
		7-17-58	1,934	7.3	69 3-44	37 3-04	240 10-44	24 0-24	--	0 0-00	325 5-33	195 4-66	330 9-31	22 0-36	--	1.2 0-11	0.56 20	1,070	54	324	58	Grab		
		9-23-58	--	--	80 25	25 25	230 25	--	--	--	160	250	250	--	56	--	--	--	960	--	--	--	Grab	
		5-27-59	1,880	7.2	93 20	20 20	290 20	--	--	0	262	309	228	--	52	--	1.0	27	1,400	66	312	--	Grab	
		9-18-59	--	--	44 40	40 40	190 40	15 15	--	--	240	228	228	--	44	--	1.0	--	984	--	--	--	Grab	
6-22-60	2,234	7.8	68 3-41	51 4-15	285 12-40	13 0-34	28 1-55	0 0-00	346 5-66	295 6-15	359 10-10	0 0-00	0	32	1.4 0-07	0.84 17	1,505	57	379	96	Grab			

TABLE 0-9 (cont.nued)
MINERAL ANALYSES OF WASTE WATER

San Diego Wastewater (10, 9)

Number	Source	Date Sampled	Specific conductance (micro-mhos/cm at 25°C)	pH	Mineral constituents in parts per million equivalents per million										Total dissolved solids (ppm)	Percent solids (ppm)	Hardness as CaCO ₃ (ppm)	Remarks					
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)					Phosphate (PO ₄)	Fluoride (F)	Boron (B)	Silica (SiO ₂)	
12	City of El Cajon (continued)	1-30-61	1,083	7.6	89 4.11	25 2.05	264 11.40	17 0.74	42 1.75	361 14.52	339 13.77	268 10.73	4.0 0.16	--	1.2 0.05	0	0.92	20	1,175	55	324	26	Grab
		5-9-62	2,374	7.2	82 4.12	54 4.40	304 13.20	19 0.85	17 0.70	433 17.72	308 12.32	361 14.44	0	56 2.24	1.77 0.07	0	0.97	16	1,690	50	355	71	Grab
		8-3-56	2,340	7.2	71 3.55	61 5.02	352 15.73	19 0.79	--	271 10.84	224 8.96	241 9.66	0	0.3 0.01	0.3 0.01	0	0.30	16	1,566	64	426	204	Grab
13	City of Coronado "B" Street	7-17-58	3,125	6.9	79 3.94	4.05	19.58	1.9	--	237 9.48	3.02	20.50	8.1 0.33	--	2.0 0.11	0	0.64	20	1,930	66	441	247	Grab
		6-20-60	1,209	8.6	66 3.28	27 2.22	93 4.05	5 0.21	33 1.27	36 1.42	293 11.73	94 3.73	2 0.08	3 0.12	0.42 0.02	0	0	9	795	37	275	200	Grab
		8-3-56	2,120	7.2	44 2.22	52 4.23	331 14.40	19 0.85	--	298 11.88	159 6.12	497 19.48	0	0.43 0.01	0	0.7	16	1,536	69	325	81	Grab	
14	City of Coronado "K" Street	7-17-50	2,283	6.8	53 2.64	38 3.12	320 13.92	9.6 0.25	--	301 11.94	159 6.12	332 13.32	0	--	1.2 0.05	0	0.44	25	1,340	65	289	42	Grab
		6-20-60	2,150	7.3	70 3.12	47 3.94	276 12.00	14 0.56	0	75 2.96	326 12.84	395 15.84	26 1.04	0	0.16 0.01	0	0.18	32	1,365	61	371	309	Grab
		6-14-62	2,792	7.1	94 4.12	43 3.52	396 17.28	23 0.96	69 2.64	468 18.72	289 11.52	602 24.08	0	0.32 0.01	0	0.1	20	1,950	76	375	40	Grab	
15	City of San Diego Treatment Plant Balboa Trunk	8-2-56	1,660	7.2	71 3.55	43 3.52	216 9.36	1.8 0.06	14 0.54	207 8.04	370 14.76	182 7.28	0	0.32 0.01	0	0.1	12	1,160	57	353	183	Grab	
		7-9-58	1,531	6.8	73 3.04	32 1.76	173 7.90	1.9 0.07	60 2.28	327 12.24	205 7.92	343 13.52	0	0.47 0.01	0	0.74	23	970	45	271	3	Grab	
		6-22-60	1,467	7.0	46 2.3	40 3.28	150 6.55	14 0.54	23 0.84	243 9.36	329 12.84	121 4.68	0	0.37 0.01	0	0.52	12	995	48	279	79	Grab	
City of San Diego Cabrillo Trunk	1-31-61	1,398	7.7	64 3.19	31 2.55	200 8.70	10 0.41	27 1.08	317 12.24	329 12.84	121 4.68	0	0.37 0.01	0	1.8 0.09	22	965	53	286	26	Grab		
	7-9-1-58	1,619	6.9	70 3.52	27 2.28	191 8.30	6.8 0.26	50 1.80	256 9.84	286 11.32	137 5.28	0	0.32 0.01	0	0.60	24	1,013	48	286	54	7 day composite		
	8-2-56	1,890	6.8	66 3.28	51 4.23	259 11.25	18 0.72	--	253 9.72	382 15.12	256 10.24	0	0.32 0.01	0	0.3	16	1,180	60	376	161	7 day composite		
City of San Diego East San Diego Trunk	7-9-1-58	1,561	6.9	58 2.92	28 2.30	182 7.90	20 0.84	13 0.48	337 12.84	297 11.52	145 5.40	0	0.23 0.01	0	0.28 0.02	33	922	49	261	0	7 day composite		
	6-22-60	1,535	7.1	48 2.41	39 3.12	170 7.40	16 0.62	22 0.80	270 10.08	307 12.24	154 5.96	0	0.37 0.01	0	1.0	0	1,050	51	279	57	Grab		
	1-31-61	1,400	7.4	71 3.54	24 1.97	185 8.05	17 0.68	28 1.08	303 11.32	321 12.24	130 4.68	2.5 0.09	0	0.04	1.4	17	970	52	275	27	Grab		
City of San Diego Encanto Trunk	7-9-1-58	2,240	6.6	86 4.28	40 3.32	281 12.20	23 0.92	32 1.12	373 14.52	292 11.76	369 14.40	0	0.35 0.01	0	0.18	30	1,392	54	306	75	7 day composite		
	2,560	6.8	74 3.70	46 3.84	363 15.50	23 0.92	42 1.56	233 8.52	316 12.24	279 11.16	466 18.24	0	0.33 0.01	0	0.25	24	1,630	60	377	94	7 day composite		
	2,508	7.3	38 1.90	64 5.28	354 15.40	21 0.84	61 2.28	339 12.24	349 13.04	328 12.96	382 15.12	0	0.60 0.02	0	0.61	--	1,725	58	359	73	Grab		

TABLE C-9 (continued)
MINERAL ANALYSES OF WASTE WATER

San Diego Region (C-9)

Number	Source	Date Sampled	Specific conductance (micro-mhos at 25°C)	pH	Mineral constituents in parts per million equivalents per million										Total dissolved solids (ppm)	Per cent sodium	Hardness as CaCO ₃ (ppm)	Remarks						
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH ₄)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)					Phosphate (PO ₄)	Fluoride (F)	Boron (B)	Silica (SiO ₂)		
2	Sit. of Imperial Beach	2-7-57	13,000	7.0	1.4	2.3	2,284	0	131	63	4,020	0	7.4	0	25	1,566	1.60	1.21	Grab					
					3.20	2.15	3	0	711	13,771	114	0	0	0	0.74	0	0	0	0	0	0	0		
					15,213	7.6	1.26	3.61	2,642	107	395	76	5,063	0	0	0	0	0	0	0	0	0	0	0
21	International Boundary & later Commission	6-10-56	15,043	7.0	3.70	2,772	114,9	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
					6-20-60	0	322	2,650	11	274	362	5,195	0	35	0.77	0.72	52	20,955	73	2,092	1,733	Grab		
					7-10-56	13,700	2,750	11,650	2,700	1,710	1,750	14,673	0	0	0	0	0	0	0	0	0	0	0	0
21	International Boundary & later Commission	7-10-56	2,360	7.6	1.4	1.70	342	7.0	0	405	161	110	0	0	0	0	0	0	0	0	0	0		
					5.20	4.70	11,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
					2,193	6.3	0.9	1.5	864	15	403	120	390	4.0	0.2	0.2	16	1,700	49	49	95	Grab		
21	International Boundary & later Commission	7-22-60	3,207	7.1	1.04	3.70	11,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
					1.26	0.37	396	26	540	3,775	11,222	0	0	0	0	0	0	0	0	0	0	0	0	0
					6.32	0.00	17,720	0.62	1,999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX D
SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

APPENDIX D

SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

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TABLE D-1
NORTH COASTAL REGION (NO. 1)
SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

Number	Agency	Date sampled	Hours composited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity (μmc/l)	Remarks
1	City of Arcata	5-13-59 6-14-61 6-15-61	8 24 --	0.8 1.06 1.05	152 14 ---	122 20 ---	52.6 7.1 ----	--- 24,000 24,000	----	Sampled after primary clarification.
2	City of Eureka Murray St. Plant	5-13-59 6-13-61	8 24	1.5 ----	34 56	54 74	54.7 35	6,000 7,000,000 7,000,000	----	
3	City of Willits	5-14-59 5-3-61	8 --	0.5 ----	22 6	20 9.1	9.0 2.3	6,200 600 600	----	
4	City of Ukiah	5-11-59 5-3-61	8 grab	1.3	4 10	14 14.3	16.4 3.0	6,000 600 600	0.7 ± 3.2	
5	Mendocino State Hospital	6-7-61	24		6	37	10	240,000 2,400,000 700,000	0.0 ± 4.0	
6	City of Santa Rosa	7-55 (a) 8-55 (a) 9-55 (a) 10-55 (a) 11-55 (a) 12-55 (a) 1-56 (a) 2-56 (a) 3-56 (a) 4-56 (a) 5-56 (a) 6-56 (a) 7-56 (a) 8-56 (a) 9-56 (a) 10-56 (a) 11-56 (a) 12-56 (a) 1-57 (a) 2-57 (a) 3-57 (a) 4-57 (a) 5-57 (a) 6-57 (a) 8-11-57 12-22-60	8 29 29 105 32 6.78 11.58 36 61 30 14 22 22 3.22 3.21 3.13 3.06 3.57 4.83 5.07 4.05 1.65 3.78 6.0 5.1	10 29 50 105 32 49 36 -- 61 30 14 22 22 -- -- 84 56 307 65 19 33 19 34 6	22 5.3 13 13 5.2 6.2 4.7 6.7 14 17 14 6.7 5.9 8.0 6.5 8.2 5.1 9.4 7.3 7.9 5.1 5.3 7.7 7.8 54 4.7	1.3 2.3 4.3 1.5 6.0 690 --- --- 23 6.2 6.2 1.3 0.6 2.3 --- --- 6.2 17+ 24 69 24 24 17 6.2	2.1 ± 3.2			

Continued by discharging agency.

TABLE D-2
SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

SAN FRANCISCO BAY REGION (NO. 2)

Number	Agency	Date sampled	Hours com- posi- ted	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn /100ml)	Gross radioactivity ($\mu\text{uc}/\text{l}$)	Remarks	
1	Sausalito Marin City Sanitary District	9-7-56	24	-	79	72	8.6	62,000,000 23,000,000 23,000,000			
		8-29-58	8	-	-	-	-	-			
		11-18-58	-	1.0	120	130	-	-			
		10-5-60	6	-	105	105	14.9	23,000,000			
		4-5-61	6	-	85	120	32	-		20.6 \pm 4.6	
		6-27-61	grab	-	-	-	-	-	-		
2	City of Mill Valley	8-13-56	24	-	-	-	32	-			
		8-13-57	16	0.5	97	107	66	23,000,000 2,300,000			
		8-27-58	9	1.0	17	25	3.6	-		5.0 \pm 3.3	
		9-14-60	6	-	26	-	-	-			
		12-19-60	15	-	26	-	-	-			
		1-11-61	6	-	18	61	7	-	2,300		
3	Marin County Sanitation Districts Nos. 1 and 2	4-5-61	6	-	-	-	-	-			
		6-27-61	Grab	-	-	-	-	-			
		8-13-56	24	-	22	34	6.6	-			
		8-14-57	8	4.9	22	34	10	-			
		8-27-58	10	4.0	-	26	8.6	-			
		9-14-60	6	-	32	26	23	-		8.9 \pm 3.4	
4	San Rafael Sanitation District	12-20-60	8	-	20	39	-	-			
		9-14-56	24	-	105	101	30	62,000,000 21,000,000 62,000,000			
		8-27-58	9	2.4	-	160	-	-			
		6-8-59	4	2.0	106	122	52.8	-			
		12-21-60	12	-	74	97	40	-		6.0 \pm 3.3	
		4-4-61	6	-	8.1	-	23	-			
5	Las Gallinas Valley Sanitary District	9-14-60	6	-	31	36	2.7	-			
		1-12-61	6	-	44	38	4.0	-			
		3-16-61	6	-	26	26	6	-			
		6-8-61	6	-	30	36	5	-			
		6-27-61	grab	-	-	-	-	-	7,000,000		0.0 \pm 4.1
		10-6-60	6	-	32	29	2.9	-	-		
6	Marin County Sanitary District #6	12-20-60	8	-	4	17	13	-			
		3-13-61	6	-	13	14	2	-			
		6-7-61	6	-	50	24	0	-			
		6-7-61	6	-	-	-	-	-			

TABLE D-2 (continued)
SAN FRANCISCO BAY REGION (NO. 2)

SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

Number	Agency	Date sampled	Hours com- posited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\text{mc}/\text{l}$)	Remarks	
7	City of Petaluma	9-13-56	24	-	24	20	6.4	620,000 230,000 2,300,000		Regional water pollution control board analyses Regional water pollution control board analyses Regional water pollution control board analyses	
		8-12&13-57	24	-	40	56	14				
		8-27-58	8	0.6	-	29	-	7.1			
		3-8&9-60	6	-	34	-	-	-			
		3-8&9-60	6	-	45	41	-	8.5			
		10-26-60	6	-	50	35	-	5	620		18.6 \pm 4.6
8	Sonoma Valley County Sanitation District	6-27-61	grab	-	-	-	-	-			
		11-23-60	6	-	124	120	14	7,000,000 7,000,000			
		12-19-60	grab	-	54	70	24				
		12-23-60	24	-	49	60	5			11.6 \pm 3.5	
		3-11-61	6	-	18	34	4				
		6-7-61	6	-	-	-	-	-			
9	Napa County Sanitation District	9-4-58	8	4.3	-	-	-	-			
		3-11-60	6	-	-	-	-	-	7.64 \pm 3.62	Regional water pollution control board analyses	
10	Travis Air Force Base	9-23-60	24	-	28	17	5.7	130,000			
		12-19-60	grab	-	14	11	12	130,000		9.3 \pm 3.4	
		12-22-60	grab	-	14	9.0	4				
		1-13-61	6	-	5	18	3				
		5-11-61	6	-	-	-	-	-			
11	Fairfield Suisun, Cities of	3-21-61	grab	-	34	22	13	24,000		8.1 \pm 3.3	
		8-27-58 5-19-59	8 16	-	81	123	5.0	6,000,000 6,000,000			
12	Mare Island Naval Shipyard	3-11&15-60	6	-	82	81	17.8	-			
		3-11&15-60	6	-	84	75	13.9	95,000		5.82 \pm 3.73	
		10-27-60	6	-	70	100	21	-			
		12-19-60	grab	-	64	136	55	95,000		4.0 \pm 3.3	
		12-22-60 1-6-61	12 6	-	80	100	25.6	-			
13	Vallejo Sanitation & Flood Control District	3-21&22-61	24	-	36	41	17	-		9.0 \pm 3.2	
		3-16-60	6	-	105	125	19.9	-		10.96 \pm 3.86	
13	North Manhole South Manhole	3-17-60	-	-	106	145	14.7	-			
		3-18-60	-	-	114	120	22.2	-			
		9-17-56	8	-	264	241	50	130,000,000		Raw sewage	
		9-17-56 8-26-58	8 grab	-	260	190	69	23,000,000		Raw sewage	

TABLE 9-2 (continued)

SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

U.S. ENVIRONMENTAL AGENCY REGION (NO. 2)

Number	Agency	Date sampled	Hours com- posited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\mu\text{c/l}$)	Remarks
14	City of Benicia	6-13-61 6-19-61	grab 8	-	- 62	- 164	- 12	- + 7,000,000	16.1 \pm 3.5 0.0 \pm 3.0	
15	Ethyl Corporation	6-13-61	-	-	-	-	-	-		
16	Dow Chemical Company	9-19-60-56 8-20-57 8-28-58 6-28-61	24 10 - -	8.0 - - -	94 70 - -	18 10 - -	3 - - -	- 230 - -	0.8 \pm 3.3	
17	U. S. Steel Corporation Outfall #1	9-20-56	24	-	122	6	2	62,000,000 2,300,000 2,300,000 6,000,000		
	Outfall #2	5-20-59 6-20-61 9-20-56 5-20-59	8 24 8	- - - -	21 98 30	0.4 11 10	2.4 3 12.4	- 62,000,000 2,300,000 9,500,000 20,000,000	6.6 \pm 3.2	
	Outfall #3	6-20-61 9-20-56	- 24	- -	- 77	- 30	- 2	- 230 230 230 6,000	2.4 \pm 3.2	
18	Johns Manville Corporation	5-20-59 6-20-61	8 -	- -	38 -	6.4 -	4.7 -	- -	8.7 \pm 3.2	
		9-17-56 8-21-57 8-27-58 5-16-61 6-28-61	8 8 8 - -	1.4 - - - -	382 100 15 -	297 103 - -	- - 0.5 -	50,000,000 - - - -	9.0 \pm 3.3	
19	City of Pittsburg	9-18-19-56	24	-	67	84	12	23,000,000 240,000,000 240,000,000		
		8-20-57 8-26-58 6-11-61	16 9 -	1.9 1.9 -	79 - -	128 - -	38 - -	- - -	9.5 \pm 3.3	
20	Shell Chemical Company	5-20-59 6-11-61	8 8	- -	31 -	24 -	13.3 -	6,000 -	10.9 \pm 3.3	
21	City of Concord	9-17-56 9-18-56 8-15-16-57 8-26-58	9 - 24 9	- - 1.9 3.5	80 60 171 -	63 23 29 -	1.6 - 8 -	62,000,000 6,200,000 - -		

TABLE D-2 (continued)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS
 SAN FRANCISCO BAY REGION (NO. 2)

Number	Agency	Date sampled	Hours composited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn /100ml)	Gross radioactivity ($\mu\mu\text{c}/\text{l}$)	Remarks
22	Central Contra Costa District	9-18&19-56	24	-	89	110	5	210,000,000 130,000,000 23,000,000		
		8-15&16-57	24	4.9	96	183	25			
		8-26-58	8	3.5	-	128	17.4			7.77 \pm 3.75
		4-27-60	6	-	-	-	-			
		6-21-61	grab	-	-	-	-			
		9-17&18-56	24	-	11.8	-	-			
23	City of Martinez	8-19-57	16	1.4	264	520	30	230,000,000 230,000,000 23,000,000 230,000 120,000		
		8-26-58	8	0.8	-	-	-			
		1-19-60	6	-	94	130	24			
		4-20-60	6	-	70	110	21			
		4-27-60	6	-	-	-	-			
		8-19-60	6	-	173	185	16.3			5.11 \pm 2.65
		12-11-60	6	-	80	124	30			
		6-15-61	8	-	-	-	-			
		6-18-61	8	-	12	113	19			9.0 \pm 3.2
		9-19-56	grab	-	15	530	-			
24	C & H Sugar Refinery (Char Waste)	8-27-58	8	0.4	117	102	16.7	24,000 6,000 6,000		
		5-21-59	24	0.7	-	-	-			
25	American Smelting & Refining	6-15-61	24	-	-	-	-			12.3 \pm 3.3
		6-27-61	grab	-	16	120	-			11.9 \pm 4.4
26	San Pablo Sanitary District	8-13&14-57	24	2.2	115	128	26			
		8-26-58	9	1.4	-	-	39			
		8-18-60	6	-	138	160	48.3			
		2-1-61	6	-	92	92	20			
		4-17-61	24	-	80	57	43			
27	City of Richmond Tenth Street	9-6&7-56	24	-	182	190	191	+ 230,000 6,200,000 6,200,000		
		8-26-58	Grab	-	-	-	-			
		9-6&7-56	24	-	280	200	69	62,000,000 50,000,000 240,000,000		
27	Castro Street	10-28-59	grab	-	-	-	-			
		6-21-61	grab	-	232	324	120	-7,000,000		7.9 \pm 3.9

Regional Water Pollution Control Board Analyses

TABLE D-2 (continued)

SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

SAN FRANCISCO BAY REGION (NO. 2)

Number	Agency	Date sampled	Hours com- pensi- ted	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\text{mc/l}$)	Remarks
28	Stegs Sanitary District	9-10-56	8	-	91	101	36	6,200,000 23,000,000		Analyses by regional water pollution control board Analyses by regional water pollution control board Analyses by regional water pollution control board Discharge value is average for sampling period East Bay Municipal Utility District Analyses
		9-12-56	8	-	61	89	-			
		8-26-58	9	2.8	-	160	24			
		12-4-58	10 min	2.7	136	115	18.8			
		8-18-59	-	-	86	-	-			
		10-28-59	6	-	-	-	-		7.6 \pm 3.8	
		11-4-59	6	-	107	135	10.8			
		8-18-60	6	-	94	120	42.6			
		1-5-61	6	-	116	130	30.8			
		9-11&12-56 7-5 & 6-58	24 mon. average for sampling period	71.8	146 88	145 134	- 39.2			
30	City of San Leandro Domestic	8-19-58	8	-	106	350	-	1,640,000		
		8-59	mon. average	-	-	-	-	-		
31	Oro Loma Sanitary District	9-11&12-56	24	-	63	149	7.5	-23,000,000 62,000,000 240,000,000		
		8-8-57	24	2.5	157	259	122	24,000,000		
		9-11&12-56	24	-	264	942	27	23,000,000 24,000,000		
		8-8-57	24	2.8	316	699	40	-	8.7 \pm 3.8	
		8-19-58	9	1.0	-	-	-	-		
		9-22, 23, 24-59	148 hr	-	-	-	-	-	-	
		5-5-61	grab	-	72	175	9.4	-7,000,000		
		9-4&5-56	24	-	103	137	6.3	240,000,000 240,000,000 24,000,000		
		8-7-57	16	8.7	79	132	20	-		
		8-19-58 9-22-59	9 grab	9.2 -	- -	- -	- -	- -	6.9 \pm 3.8	
4-25 -- 27-61 5-5-61	24 hr grab	- -	106 58	145 135	36 2.9	- -7,000,000	Regional water pollution control board analyses			

TABLE D-2 (continued)
SAN FRANCISCO BAY REGION (NO. 2)

SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

Number	Agency	Date sampled	Hours composited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\text{uc/l}$)	Remarks
32	City of Hayward	9-14&5-56	24	-	125	674	1.2	700,000,000 240,000,000		
		8-7&8-57	24	6.4	105	561	14	-		
		8-19-58	9	10.7	-	178	2.4	-		
		5-5-61	grab	-	26	-	-	7,000,000		
33	Union Sanitary District (Newark)	8-7-57	16	1.3	173	114	23 (avg. RWPCB)	-	7.4 \pm 3.5	
		8-19-58	9	2.3	-	-	-	-		
		5-22-61	12	-	-	-	-	-		
34	Union Sanitary District (Irvington)	5-20-50	6	-	538	195	161	-	1.3 \pm 3.3	
		5-21-61	8	-	-	-	-	-		
35	Milpitas San. Dist.	4-28-60	6	-	158	75	18	-	2.90 \pm 2.59	
		1-26-61	6	-	244	61	33	-		
36	City of San Jose	8-28&29-56	24	-	428	973	53	62,000,000 62,000,000 62,000,000		
37	City of Sunnyvale	8-6-57	24	-	237	475	-	-	2.7 \pm 3.7	
		5-22-61	Grab	-	-	-	20	62,000,000 6,200,000 62,000,000		
		8-28&29-56	24	-	25	37	-	-		
		8-19-58	9	12.6	-	-	-	-	0.36 \pm 2.60	
		1-28&29-59	24	6.8	76	110	13.9	-	7.7 \pm 3.5	
		8-27-59	8	-	-	-	-	-		
		5-22-61	24	-	-	-	-	-		
38	City of Mountain View	9-31-56	12	-	70	117	8.4	6,200,000 6,200,000		
		8-5-57	10	-	46	166	20	-		
		8-19-58	9	9.8	-	-	-	-	0.00 \pm 2.41	
		5-9&10-60	10	-	117	140	22.9	-	12.3 \pm 3.4	
		5-22-61	grab	-	-	-	-	-		
39	City of Palo Alto	8-30&31-56	24	-	112	95	3.8	23,000,000 23,000,000 62,000,000		
		8-19-58	9	5.0	-	-	-	-		
		5-20&21-59	24	6.6	72	78	13.8	-	3.6 \pm 3.3	
		5-21-61	Grab	-	-	-	-	-		
40	Menlo Park Sanitary District	8-29&30-56	24	-	64	118	32	62,000,000 240,000,000 23,000,000		
		8-5-57	16	-	82	126	22 (avg. RWPCB)	-		
		8-20-58	11	3.9	-	-	-	-		

SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

SAN FRANCISCO BAY REGION (NO. 2)

Number	Agency	Date sampled	Hours composited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\mu\text{c/l}$)	Remarks	
40	Menlo Park Sanitary District (cont.)	9-1&2-60	17	-	114	105	17.4	-	-	Regional Water Pollution Control Board Analyses	
41	Redwood City	3-2-61	grab	-	-	-	-	-	1.3 \pm 2.8	Regional Water Pollution Control Board Analyses	
		8-30&31-56	24	-	91	239	14	240,000,000 240,000,000 240,000,000	-		
		8-20-58	9	6.8	-	-	-	-	-		-
		11-19-58	9	6.1	193	580	12.0	-	-		-
		5-26&27-59	24	5.9	188	380	27.4	-	-		-
		3-3-60	6	-	-	200	10.5	-	24,000,000		2.92 \pm 3.64
		9-1&2-60	24	-	136	200	10.5	-	-		-
42	Cities of San Carlos-Belmont	1-20-61	24	-	92	130	21	-	-	Regional Water Pollution Control Board Analyses	
		9-14&5-56	24	-	124	150	7.2	62,000,000 62,000,000 50,000,000	-	-	
		8-6-57	14	1.2	80	157	-	-	-	-	
		8-20-58	9	3.0	-	115	16.2	-	-	-	
		9-1&2-60	9	-	110	115	16.2	-	-	-	
		2-27-61	grab	-	-	-	-	600 6,200	11.8 \pm 3.1	-	
		5-22-61	grab	-	-	-	-	-	0.3 \pm 3.1	-	
8-31-56	24	-	135	131	24	23,000,000 62,000,000 23,000,000	-	-			
43	City of San Mateo	8-20-58	9	5.9	-	120	7.1	-	-	Regional Water Pollution Control Board Analyses	
		6-14&5-59	15	7.0	98	-	-	-	2.7 \pm 9.8		
		2-28-61	grab	-	-	-	-	-	-		-
		8-30&31-56	24	-	98	100	18	240,000,000 230,000,000 2,300,000	-		-
		8-6-57	16	-	65	135	24 (avg. RMPGB)	-	-		12.75 \pm 2.90
44	City of Burlingame	8-20-58	9	1.7	-	-	-	-	-	Regional Water Pollution Control Board Analyses	
		4-26-60	grab	-	-	-	-	-	-		
		2-23-61	6	-	96	140	35	-	-		-
		4-13-61	grab	-	82	-	57	-	7,000,000		-
		5-23-61	7	-	126	110	43	-	-		-

TABLE D-2 (continued)
SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

SAN FRANCISCO BAY REGION (NO. 2)

Number	Agency	Date sampled	Hours com- pensed	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\mu\text{c/l}$)	Remarks
15	City of Millbrae	8-29&30-56	24	-	112	184	54	62,000,000	7.85 \pm 2.75	Regional water pollution control board analyses
		8-5-57	16	-	99	170	46	62,000,000		
		8-20-58	9	1.0	212	160	32.7	23,000,000		
		4-26-60	6	-	134	130	50	-		
		5-23-61	7	-	126	119	34	-		
16	Cities of South San Francisco- San Bruno	8-29&30-56	24	-	112	230	53	6,200,000	2.8 \pm 2.9	
		8-8-57	16	7.2	112	230	-	5,000,000		
		8-20-58	9	6.1	-	-	-	240,000		
		10-18-60	Grab	280	235	93	7,000,000			
		2-23-61	24	-	-	-	-	2,400,000		
2-24-61	Grab	-	-	-	-	-	-			
17	City and County of San Francisco Southeast Plant	9-5&6-56	24	-	192	220	15	62,000,000		Regional Water Pollution Control Board Analyses
		8-26-58	9	18.3	-	165	-	24,000,000		
		2-15, 16, 17, and 18-60	24	-	119 143 160	180 180 180	20.7 22.9 22.0	-		
		3-18-61	24	-	106	256	39	-		
		4-13, & 14-60	24	-	356 108	260 195	75.2 21.6	-		
18	North Point Plant	9-5&6-56	24	-	84	160	-	60,000	3.5 \pm 3.2	Regional Water Pollution Control Board Analyses
		8-26-58	9	54.8	-	167	-	620,000		
		3-8-61	24	-	76	120	43	60,000		
		5-18-61	8	-	114	120	4.3	-		
		4-5-61	24	-	9	18	53	6,200		
19	McQueen Plant	3-7&8-61	24	13	74	118	53	+7,000,000	7.8 \pm 3.3	Regional Water Pollution Control Board Analyses
		9-6&7-56	24	-	17	5.3	1.2	+7,000,000 +2,300 248,000		

TABLE D-2 (continued)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

SAN FRANCISCO BAY REGION (NO. 2)

Number	Agency	Date sampled	Hours com- posi- sited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity (μ c/l)	Remarks
51	North San Mateo County	3-10-61	24	-	66	191	50	-7,000,000 -7,000,000 -600	12.0 \pm 3.4	
52	City of Livermore	8-18-59 5-13-60 11-17-60	24 6 grab	- - -	7 13.5 -	35 20 -	7.4 3.8 -	6,200,000 - -	4.48 \pm 2.70	

TABLE D-3
CENTRAL COASTAL REGION (NO. 3)
SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

Number	Agency	Date sampled	Hours composited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\mu\text{c/l}$)	Remarks
1	City of Santa Cruz	9-6-56	8	--	192	165	100	+ 70,000,000	--	
		8-1-57	11	3.2	210	523	17	62,000,000	--	
		8-12-59	24	--	212	100	57.8	--	10.01 \pm 2.96	
		5-26-60	24	--	80	152	35.3	--	--	
		9-21-60	24	--	144	375	29	--	--	
2	City of Watsonville	5-26-61	24	--	217	328	62	--	--	
		9-6-56	8	--	288	218	34	24,000,000	--	
		10-25-58	8	2.5	191	115	6.8	70,000,000	--	
		8-11-59	--	--	202	218	73	6,000	4.68 \pm 2.82	
		5-24-60	--	--	154	317	38	--	8.78 \pm 3.39	
3	Fort Ord (Main Garrison)	9-21-60	--	--	66	182	26	24,000	--	
		5-26-61	--	--	140	211	38	+ 72,000,000	--	
		5-26-55	8	1.9	99	250	89	+ 7,000,000	--	
		8-12-59	8	--	123	310	65	--	7.80 \pm 2.97	
		9-20-60	24	--	112	172	19	--	--	
4	Seaside County Sanitation District	5-23-61	24	--	57	202	70	--	--	
		11-15-56	6	--	159	141	89	62	--	
		8-2-57	16	--	72	228	100	23,000,000	--	
		8-13-59	8	--	81	129	82.8	230,000	7.09 \pm 3.02	
		5-20-60	--	--	88	110	56.6	6,000	7.93 \pm 3.36	
5	City of Monterey	9-20-60	24	--	120	149	67	--	--	
		5-23-61	24	--	98	163	70	600	--	
		11-15-56	7	--	90	114	51	2,300	--	
		8-2-57	10	--	52	192	60	23,000,000	--	
		8-14-59	8	--	130	184	58.6	24,000,000	6.55 \pm 2.90	
5-23-60	24	--	160	203	57.5	24,000,000	4.55 \pm 3.26			
							240,000			
							13,000			

(b) Analyses by regional water pollution control board.

TABLE D-3 (continued)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

CENTRAL COASTAL REGION (NO. 3)

Number	Agency	Date sampled	Hours com- pounded	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity (μ uc/l)	Remarks
5	City of Monterey (Continued)	9-19-60	24	--	112	112	50	13,000,000 21,000,000 60,000 + 7,000,000 + 7,000,000 600	--	
		5-22-61	24	--	86	194	76		--	
		8-1-57	7	--	74	115	145	6 2,300,000 2,300,000	--	
		8-16-59	8	--	53	96	56.7	6,000	5.50 \pm 1.90	
		5-19-60	24	--	87	90	148.8	2,300,000 23,000 210,000	2.39 \pm 1.21	
7	Carmel Sanitary District	9-19-60	24	--	68	118	53	6,000 60,000 60,000 60,000	--	
		5-22-61	24	--	62	152	67	60,000 600 600	--	
		11-15-56 8-1-57	7 16	-- --	19 90	9.7 161	26 60	6,200	-- --	
		8-13-59	8	--	14	6.9	12.4	6,000 2,300,000	10.86 \pm 3.03	
		5-20-60	24	--	39.4	106	39.4	62,000 24,000,000 24,000,000	6.46 \pm 3.32	
		9-19-60	24	--	18	56	16	6,000 6,000	--	
		5-22-61	24	--	28	4.0	33	210,000 210,000 2,400,000	--	
		11-15-56 7-31-57	7 16	-- --	19 29	9.7 32	26 12	6,200 23,000,000 6,200,000	-- -- --	
		8-11-59	--	--	21	38	17.3	230,000 6,200,000	14.50 \pm 3.08	
		5-18-60	--	--	--	1.0	16.0	10	230,000 2,400,000	8.30 \pm 3.36
9-23-60	--	--	30	97	7.1	13,000,000 2,400,000 *24,000,000 7,000,000	--			

TABLE D-3 (continued)

SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

CENTRAL COASTAL REGION (HO. 3)

Number	Agency	Date sampled	Hours com- posited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml.)	Gross radioactivity ($\mu\text{c/l}$)	Remarks	
8	City of Salinas (Continued)	5-24-61	--	--	14	19	19	130,000 7,000,000 2,400,000	--		
9	Alisal Sanitary District	11-15-56	8	--	36	52	20	2,300	--		
		7-31-57	24	2.7	2	28	12	2,300,000 23,000,000	--		
10	Soledad State Prison	8-11-59	--	--	17	42	17.5	6,200,000 2,300,000	10.61 \pm 3.00		
		5-18-60	--	--	1.0	9.8	12	--	4.15 \pm 3.26		
		9-23-60	--	--	12	11	11	2,400,000 600	2,400,000 600	--	
		5-24-61	--	--	26	30	14	14	2,300 600 2,300 600 1,300	--	
		8-11-59 5-19-60	8 24	-- --	-- --	43 28	28 33	22.2 14.8	6,000 23,000 6,000	-- 6.36 \pm 3.32	
11	City of Paso Robles	9-22-60	24	--	24	14	17	240,000 460	--		
		5-24-61	24	--	24	30	13	6,200 600 600	--		
		9-22-61	24	--	50	37	11	240,000	--		
		10-15-57 10-13-59	8 8	0.9 1.2	12 --	15 --	5.2 5.8	2,400,000 7,000,000	-- --		
		5- 9-60	24	0.8	11	30	6	7,000,000 2,400,000	3.9 \pm 1.8 ^c		
		9-12-60	24	1.1	3	20	11	--	3.8 \pm 1.1 ^c		
		5-22-61	24	0.7	10	35	22	--	11.6 \pm 2.6 ^c		
11	City of Paso Robles	9-11-61	24	0.8	12	79	4	--	5.6 \pm 1.2 ^c		
		5-21-62	24	0.8	21	86	7	--	0.3 \pm 0.5 ^d		

c. Filtrate
d. Sludge

TABLE D-3 (continued)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

CENTRAL COASTAL REGION (NO. 3)

Number	Agency	Date sampled	Hours com- posited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\text{mc/l}$)	Remarks
12	Morro Bay - Cayucos Sanitary District	5-27-58	--	--	22	--	5.7	70,000,000 450	--	
		10-13-59	19	0.5	35	59	4.7	21,000 130,000	--	
		9-12-60	24	0.6	38	37	5	1.2 ± 1.1	1.2 ± 1.1	
		5-23-61	21	0.6	40	36	15	3.4 ± 0.9 ^c 20.0 ± 3.9 ^d	3.4 ± 0.9 ^c 20.0 ± 3.9 ^d	
		9-11-61	24	0.4	60	119	7	4.8 ± 1.0 ^c 0.0 ± 0.5 ^d	4.8 ± 1.0 ^c 0.0 ± 0.5 ^d	
13	City of San Luis Obispo	5-21-62	24	--	34	69	6	--	--	
		10-27-57	16	1.2	32	48	12	--	0.38 ± 0.37 ^e	
		10-8-58	18	1.6	--	--	--	--	9.7 ± 4.5 ^f	
		10-13-59	19	1.8	27	28	1.8	1,300,000 2,400,000	2.8 ± 2.0 ^c	
		5-10-60	24	1.7	15	22	88	12 4.2	2.8 ± 1.1 ^c	
		9-13-60	24	1.6	5	17	12	6,000	6.3 ± 1.2 ^c	
		5-15-61	24	1.6	15	33	4.2	6,000 6,000	2.3 ± 0.8 ^d	
		9-12-61	24	2.0	16	67	4	6,000	--	
		5-1-62	24	2.6	15	16	8	--	9.0 ± 1.7 ^c	
		5-9-62	24	1.5	21	33	38	2,400,000 230,000	--	
14	Vandenberg Air Force Base	8-15-56	24	1.1	6.7	80	3.0	23,000,000 62,000,000 23,000,000	--	
		10-9-57	18	2.2	41	51	9.9	--	0.72 ± 0.51 ^e	
		10-8-58	3	3.0	47	75	5.0	--	7.5 ± 4.1 ^f	
		10-15-59	16	2.5	70	111	8.8	>7,000,000 >7,000,000 >7,000,000	12.3 ± 2.17 ^c	
		5-10-60	24	2.0	94	160	16	--	2.3 ± 1.0 ^c	
15	City of Santa Maria	9-14-60	24	5.4	48	48	26	--	1.0 ± 0.7 ^c	
		5-23-61	24	3.5	75	197	19	--	16.3 ± 3.8 ^d	
		9-12-61	24	3.4	93	390	24	--	12.9 ± 1.8 ^c 7.7 ± 1.4 ^d	
16	--	3.5	59	291	291	17	--	--		

c. Filtrate
 d. Sludge
 e. Alpha
 f. Beta

TABLE D-3 (continued)
CENTRAL COASTAL REGION (NO. 3)
SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

Number	Agency	Date sampled	Hours com- posited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\text{c}/\text{l}$)	Remarks
16	City of Lompoc	10- 9-57	24	0.5	17	50	10	230,000	--	
		5- 1-58	24	0.5	25	23	6.0	240,000	0.22 ± 0.21 ^e	
		10- 9-58	24	0.6	--	--	--	--	9.71 ± 4.3 ^f	
		10-15-59	25	0.9	174	182	18	> 7,000,000	7.2 ± 2.65 ^e	
		5- 9-60	24	0.7	48	47	23	> 7,000,000	7.3 ± 1.84 ^c	
		9-14-60	24	1.0	50	17	20	6,000	4.1 ± 1.7 ^c	
		5-24-61	24	0.8	35	31	13	4,500	12.8 ± 3.6 ^c	
		9-13-61	24	1.0	28	87	20	4,500	8.8 ± 2.9 ^d	
		5-23-62	24	1.2	28	63	9	4,500	17.0 ± 2.1 ^c	
		8-14-56	--	--	70	34	3	600	21.7 ± 2.3 ^d	
17	Goleta Sanitary District	5- 1-58	8	0.5	53	36	7	600,000	--	
		10-16-59	--	0.8	127	50	4.7	2,300	12.4 ± 2.77 ^c	
		5- 9-60	--	0.9	164	130	18	7,000,000	3.6 ± 1.84 ^c	
		9-12-60	Grab	1.4	68	67	15	7,000,000	8.4 ± 1.8 ^c	
		5-22-61	Grab	1.1	85	105	27	6,000	27.8 ± 2.1 ^c	
		9-11-61	Grab	1.3	66	80	21	4,500	15.3 ± 2.2 ^d	
		5-21-62	Grab	1.4	55	47	6	6,000	44.5 ± 2.9 ^c	
		8-15-56	24	4.8	93	140	2.0	240,000,000	3.6 ± 1.2 ^d	
		10- 9-57	16	4.5	63	--	20	62,000,000	--	
		5- 8-58	16	4.9	114	27	30	23,000	0.15 ± 0.25 ^e	
18	City of Santa Barbara	10- 8-58	16	4.6	--	--	--	7,000,000	10.0 ± 4.5 ^f	
		10-15-59	24	6.3	112	119	24	7,000,000	11.2 ± 2.75	
		5-16-60	24	--	120	128	64	> 7,000,000	11.5 ± 1.96 ^c	

c. Filtrate
d. Sludge
e. Alpha
f. Beta

TABLE D-3 (continued)
 CENTRAL COASTAL REGION (NO. 3)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

Number	Agency	Date sampled	Hours com- posi- ted	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5- day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\mu\text{c/l}$)	Remarks	
18	City of Santa Barbara (continued)	9-21-60	24	5.1	61	78	48	62,000 6,000 4,500	3.4 \pm 0.9 ^c		
		5-24-61	24	4.9	75	136	31	> 700,000 700,000 > 700,000	3.3 \pm 1.6 ^c 2.1 \pm 1.4 ^d		
		9-13-61	24	5.1	65	196	4		15.5 \pm 1.7 ^c 12.9 \pm 1.5 ^d		
		5-23-62	24	5.7	35	93	5		--		
		8-14-56	24	0.3	21	21	7.0		2,300,000 13,000,000 2,300,000	--	
19	Carpinteria Sanitary District	10-15-57	10	0.3	14	--	6.3				
		5-7-58	10	0.5	48	58	10	< 4,500 4,500	--		
		10-15-59	23	0.3	51	29	5.1	230 620	--		
		5-16-60	24	0.5	49	21	12	13,000 4,500	8.6 \pm 1.93 ^c		
		9-21-60	24	0.5	28	11	3.8	< 4,500 < 4,500	4.0 \pm 1.1 ^c		
		5-24-61	24	0.6	30	52	8.3	240,000 23,000 4,500	5.4 \pm 2.3 ^c 3.6 \pm 1.9 ^d		
		9-13-61	24	0.6	33	192	6		0.3 \pm 0.5 ^c 7.5 \pm 1.1 ^d		
		5-23-62	24	0.7	12	7	4		--		

c. Filtrate
 d. Sludge
 e. Alpha
 f. Beta

TABLE D-4
LOS ANGELES REGION (NO. 4)
SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

Number	Agency	Date sampled	Hours com- pounded	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\mu\text{c/l}$)	Remarks	
1	City of Ojai	11-16-55	8	--	30	40	3	<	6,200	--	
		5-17-56	3	--	20	30	2	<	23,000	--	
		11-14-56	8	--	41	42	4	<	45	--	
		5-15-57	8	--	26	65	8	<	45	--	
		11-20-57	8	--	39	71	11	<	45	--	
		5-14-58	8	0.2	23	23	6	<	130	--	
		11-12-58	8	--	27	61	7	<	45	--	
		5-1-59	9	--	14	30	7	--	60	9.8 ± 0.9 ^c	
		5-20-59	Grab	--	--	--	--	--	--	4.4 ± 0.9 ^d	--
		11-4-59	8	--	22	23	6	<	45	--	
4-12-60	8	--	24	10	3	<	45	--			
10-1-60	8	0.7	10	10	3	<	60	--			
10-16-61	--	0.7	15	10	1	<	45	--			
2	City of Santa Paula	11-1-55	5	--	93	37	5	<	2,300,000	--	
		5-1-56	8	0.7	74	88	3	<	4,500	--	
		11-14-56	8	--	12	18	7	<	46	--	
		5-15-57	9	0.5	29	33	3	<	6,200	--	
		11-20-57	8	--	47	43	8	<	45	--	
		5-14-58	8	0.9	44	19	30	<	230	--	
		11-12-58	7	0.5	25	20	1	<	45	--	
		5-12-59	8	0.6	22	33	6	<	620	17.1 ± 1.0 ^c	
		5-20-59	Grab	--	--	--	--	--	--	7.9 ± 0.9 ^d	--
		11-4-59	8	--	77	36	16	<	230	--	
4-12-60	8	0.6	60	40	18	<	620	--			
10-1-60	8	0.7	29	16	3.5	<	45	--			
10-16-61	--	1.0	21	10	4	<	2,400,000	--			
3	City of Ventura Seaside Plant	11-16-55	19	--	167	235	15	<	62,000,000	--	
		5-17-56	14	2.0	170	300	37	<	620,000,000	--	
		11-14-56	14	--	230	280	67	>	70,000,000	--	
		5-15-57	14	--	282	460	85	>	70,000,000	--	
		11-20-57	14	--	140	300	20	>	70,000,000	--	
		5-14-58	14	4.0	140	217	31	>	70,000,000	--	
		11-12-58	14	3.5	122	235	49	>	70,000,000	--	
		5-12-59	15	2.7	84	346	49	>	700,000,000	--	
		6-1-59	--	--	--	--	--	--	--	18.3 ± 1.1 ^c	15.9 ± 1.0 ^d
		11-4-59	8	--	74	235	14	>	700,000,000	--	
4-12-60	8	2.1	176	300	54	>	70,000,000	--			
10-19-60	8	0.7	160	363	44	>	700,000,000	--			
10-16-61	--	1.1	119	135	31	>	500,000,000	--			
10-16-61	--	1.2	9	19	5	>	13,000,000	--			

c. Filtrate
d. Sludge
e. Alpha
f. Beta

TABLE D-4 (continued)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

LOS ANGELES REGION (NO. 4)

Number	Agency	Date sampled	Hours com- posited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\mu\text{c/l}$)	Remarks	
5	City of Oxnard	11-16-55	15	--	98	65	3	700,000	--		
		5-17-51	16	3.3	35	35	4	> 700,000	--		
		11-14-50	24	--	41	30	3	2,400,000	--		
		5-17-57	24	3.4	55	77	7	> 7,000,000	--		
		11-26-57	24	--	47	72	6	6,200,000	--		
		5-14-58	16	3.8	64	51	4	24,000,000	--		
		11-12-58	16	3.7	37	96	10	2,300,000	--		
		5-1-57	24	2.2	26	80	4	24,000,000	--		
		5-20-59	Grab	--	--	--	--	--	--	11.5 \pm 1.0 ^c 8.2 \pm 0.9 ^d	
		11-4-51	8	--	84	145	23	23,000,000	--		
6	Port Piene Sanitary District	4-12-50	8	3.3	96	69	12	70,000,000	--		
		11-23-61	18	4.6	44	123	20	700,000,000	--		
		10-16-61	--	4.0	97	156	21	62,000,000	--		
		11-16-55	8	--	54	53	3	6,200,000	--		
		5-17-56	8	--	133	115	13	23,000,000	--		
		11-17-56	8	--	104	126	20	70,000,000	--		
		5-15-57	3	0.4	200	240	15	70,000,000	--		
		11-28-57	10	--	214	500	35	> 70,000,000	--		
		5-14-58	8	1.4	428	360	3	24,000,000	--		
		11-12-58	8	0.8	362	400	16	> 70,000,000	--		
7	U. S. Naval Construction Battalion Center - Port Huene	5-10-58	8	1.3	162	460	30	700,000,000	9.3 \pm 0.9 ^e 16.3 \pm 1.0 ^d		
		5-20-50	Grab	--	--	--	--	--	--		
		11-4-59	8	--	212	330	31	240,000,000	--		
		4-12-60	8	1.3	172	230	22	13,000,000	--		
		10-17-60	8	0.9	128	109	20	62,000,000	--		
		10-16-61	--	1.0	110	72	30	2,400,000	--		
		8-14-56	24	--	54	93	39	23,000,000	--		
		6	4	0.2	6	14	2	> 70,000	--		
		9	0.2	4	13	2	45	< 70,000	11.7 \pm 1.0 ^e		
		8	Camarillo Sanitary District	11-12-58	8	0.2	20	3	2	60	--
5-17-57	8			--	14	9	2	45	--		
4-12-60	8			0.3	17	27	6	230	--		
10-19-60	8			0.4	17	14	1.9	45	--		
10-3-61	--			0.7	21	14	2	45	--		
11-9-55	24			--	45	45	6	> 700,000,000	--		
5-16-56	24			271	57	45	12	23,000,000	--		
11-15-56	24			266	128	72	20	> 70,000,000	--		
5-5-57	24			269	99	50	14	7,000,000	--		
11-20-57	24			--	44	67	7	24,000,000	--		
5-15-58	24	273	68	48	5	24,000,000	--				

c. Filtrate
 d. Sludge
 e. Alpha
 f. Beta

TABLE D-4 (continued)

SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

LOS ANGELES REGION (NO. 4)

Number	Agency	Date sampled	Hours com- posited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\text{c}/\text{l}$)	Remarks		
10	City of Los Angeles Hyperion Plant (continued) City of Los Angeles Terminal Island Plant	11-19-58	24	273	67	102	1	70,000,000	23.9 ± 1.2^c 2.9 ± 0.9^d	5 Mile Outfall 1 Mile Outfall Primary Secondary		
		5-19-59	24	263	7	38	5	62,000,000	--			
		10-22-59	24	--	32	48	3.8	23,000,000	--			
		4-6-60	24	172	86	190	18	70,000,000	--			
		4-6-60	24	100	9	11	2.0	2,300,000	--			
		10-17-60	24	166	60	70	24	62,000,000	--			
		11-2-60	24	100	7	16	2	23,000,000	--			
		9-26-61	--	277	92	144	20	6,200,000	--			
		11-9-55	16	--	134	180	8	700,000,000	--			
		5-16-56	16	5.6	120	155	13	23,000,000	--			
		11-15-56	12	6.3	117	150	9	24,000,000	--			
		5-9-57	12	6.0	109	195	34	7,000,000	--			
		11-20-57	16	--	111	160	35	70,000,000	--			
		5-15-58	16	6.3	100	150	29	70,000,000	--			
		11-13-58	16	5.9	97	175	17	70,000,000	--			
5-19-59	12	6.6	64	182	26	240,000,000	--					
5-26-59	16	--	--	--	--	--	--	11.9 ± 1.0^c 9.7 ± 0.9^d				
10-22-59	12	--	72	130	19	62,000,000	--					
4-6-60	12	6.4	88	192	22	70,000,000	--					
11-2-60	8	6.5	116	183	37	23,000,000	--					
9-26-61	--	6.5	109	236	30	230,000,000	--					
11	County Sanitation Districts of Los Angeles County Joint Disposal Plant	11-9-55	24	--	224	170	32	700,000,000	--			
		5-16-56	24	184	150	225	16	23,000,000	--			
		11-15-56	24	180	272	210	48	70,000,000	--			
		5-9-57	24	205	208	205	47	7,000,000	--			
		11-26-57	24	--	232	220	75	70,000,000	--			
		5-15-58	24	230	232	212	45	70,000,000	--			
		11-13-58	24	233	227	273	67	70,000,000	--			
		5-19-59	24	262	170	263	129	240,000,000	18.1 ± 1.0^c 6.5 ± 0.9^d			
		10-22-59	24	--	247	230	42	620,000,000	--			
		4-6-60	24	279	276	347	56	70,000,000	--			
		11-2-60	24	281	304	270	77	62,000,000	--			
		5-2-61	24	294	277	262	89	23,000,000	--			
		7-26-61	--	285	200	232	59	230,000,000	--			
		12	County Sanitation Districts of Los Angeles County Lucky Lager Plant									Unavailable

c. Filtrate
d. Sludge
e. Alpha
f. Beta

TABLE D-4 (continued)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

LOS ANGELES REGION (NO. 4)

Number	Agency	Date sampled	Hours camp-sited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn / 100ml)	Gross radioactivity (μμc/l)	Remarks
13	County Sanitation Districts of Los Angeles County Azusa Plant	11-9-55	8	--	24	17	4	13,000,000	--	
		5-16-56	8	0.5	16	16	22	23,000,000	--	
		11-15-56	5	0.7	75	43	4	24,000,000	--	
		5-9-57	5	0.7	27	27	3	24,000	--	
		11-20-57	8	--	37	25	8	> 700,000	--	
		5-20-58	8	--	44	32	7	13,000,000	--	
		11-19-58	8	0.6	44	37	7	24,000,000	--	
		5-19-59	8	0.7	50	20	9	6,200,000	40.7 ± 1.4 ^c 18.5 ± 1.0 ^d	
		10-22-59	8	--	50	34	3	13,000,000	--	
		4-6-60	8	0.3	26	30	2.6	6,200,000	--	
		11-2-60	8	0.6	30	20	3.1	23,000,000	--	
		9-2-61	--	0.7	35	37	2.4	23,000,000	--	
		14	County Sanitation Districts of Los Angeles County Pomona Plant	11-9-55	8	--	26	7	4	24,000
5-16-56	8			2.8	11	11	3	600	--	
11-15-56	8			4.1	22	8	5	7,000	--	
5-9-57	8			4.2	17	26	7	6,200	--	
11-20-57	8			--	17	15	5	7,000	--	
5-15-58	8			3.4	6	15	4	230	--	
11-19-58	8			4.6	16	168	3	6,200	--	
4-19-59	12			4.0	11	32	4	60	15.4 ± 1.0 ^e 3.0 ± 0.9 ^f	
10-22-59	8			--	13	9	1.3	70,000	--	
4-6-60	8			4.5	19	24	1.6	2,300	--	
11-2-60	8			3.6	16	5	3.8	45	--	
9-26-61	--			4.0	4	34	4	6,200	--	

c. Filtrate
 d. Sludge
 e. Alpha
 f. Beta

TABLE D-5
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

CENTRAL VALLEY REGION (NO. 5)

Number	Agency	Date sampled	Hours composited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity (μuc/l)	Remarks
1	City of Redding	6-20-56	24	----	80	87	---	1,000,000 1,000,000	----	
		7-10-57	24	1.9	257	102	22	---	----	
		9-3-58	9	2.5	---	---	---	---	----	
		4-18-60	8	1.2	93	167	---	---	----	
		7-18-60	11	1.72	---	96	---	---	----	
		8-15-60	11	1.72	---	100	98	---	----	
		9-19-60	11	1.56	---	106	100	---	----	
		10-17-60	11	2.11	100	106	---	---	----	
		11-14-60	11	1.49	---	150	144	---	----	
		12-12-60	11	1.62	80	138	31	---	----	
		1-16-61	11	2.34	84	164	36	---	----	
		2-14-61	11	4.20	44	63	18	---	----	
		3-20-61	11	2.74	56	124	36	---	----	
		4-18-61	---	-----	84	323	36	---	----	
		5-23-61	---	-----	58	127	35	---	----	
		6-12-61	12	-----	116	175	47	---	----	
		2	City of Red Bluff	6-20-56	24	----	50	49	---	23,000,000 130,000,000
7-10-57	24			---	93	99	22	---	----	
9-3-58	9			1.3	---	---	---	---	----	
4-18-60	8			0.96	99	141	---	---	----	
5-16-60	8			0.95	56	150	---	---	----	
7-18-60	8			1.23	43	76	---	---	----	
8-15-60	8			1.25	---	150	---	---	----	
9-19-60	8			1.02	---	83	---	---	----	
10-17-60	8			1.03	100	142	37	---	----	
11-14-60	8			1.17	---	102	49	---	----	
12-12-60	8			1.13	64	109	34	---	----	
1-16-61	8			0.98	102	166	50	---	----	
2-14-61	8			1.29	84	140	36	---	----	
3-20-61	8			1.21	88	134	43	---	----	
4-18-61	---			-----	104	179	46	---	----	
5-23-61	---			-----	88	169	27	---	----	
6-12-61	9			-----	124	148	52	---	----	
3	City of Chico	6-20-56	24	----	70	77	---	23,000,000 23,000,000 23,000,000	----	Effluent from clarifier
		7-9-57	16	3.0	88	82	15	---	----	Effluent from clarifier
		8-3-58	---	-----	---	---	---	---	----	
		7-20-60	24	-----	142	55	1.6	---	----	
		4-20-61	---	-----	14	38	10	---	----	

TABLE D-5 (continued)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

CENTRAL VALLEY REGION (NO. 5)

Number	Agency	Date sampled	Hours composited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\text{mc/l}$)	Remarks
4	City of Oroville	6-18-56	24	--	82	99	--	70,000,000	--	
		6-3-59	8	--	99	15	--	24,000,000	0.00 \pm 0.00	
		8-26-59	8	--	--	--	--	70,000,000	2.69 \pm 2.52	
		8-19-60	24	--	53	453	33	24,000,000	--	
5	City of Gridley	6-22-56	24	--	62	101	--	23,000,000	--	
		7-9-57	8	0.8	69	159	26	6,200,000	--	0.16 \pm 0.12 ^e ; 3.65 \pm 3.4 ^f
		8-3-58	--	--	--	--	--	--	--	
		9-3-59	8	--	40	178	14	7,000,000	2.69 \pm 2.52	
		3-23-61	--	--	--	--	--	--	--	
6	Yuba City	6-21-56	24	--	38	39	--	2,300,000	--	
		7-11-57	24	2.7	59	157	16	21,000,000	--	0.16 \pm 0.36 ^e ; 5.59 \pm 3.4 ^f
		8-3-58	9	3.0	--	--	--	2,300,000	--	
		9-3-59	16	--	85	475+	14.5	24,000,000	--	
7	City of Marysville	11-20-59	--	--	--	--	--	--	1.2 \pm 2.10	
		6-21-56	24	--	74	57	--	2,300,000	--	
		7-11-57	24	--	38	70	2.1	130,000,000	--	0.0 \pm 0.32 ^e ; 6.09 \pm 3.5 ^f
		8-3-58	8	2.0	--	--	--	23,000,000	--	
8	City of Grass Valley	8-26-59	16	--	183	66	9.3	7,000,000	5.30 \pm 2.47	
		3-20-61	--	--	--	--	--	--	--	
		6-26-56	24	--	18	8	--	23,000	--	
		7-15-57	16	1.0	21	14	5	23,000	--	0.43 \pm 0.32 ^e ; 1.66 \pm 3.5 ^f
		9-3-58	--	--	--	--	--	23,000	--	
7-27-59	--	--	--	--	--	23,000	--			
9-3-59	8	--	--	--	--	23,000	9.60 \pm 3.23 ^f			

c. Filtrate
 d. Sludge
 e. Alpha
 f. Beta

TABLE D-5 (continued)
 CENTRAL VALLEY REGION (HC. 5)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

Number	Agency	Date sampled	Hours composited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity (μmc/l)	Remarks
9	City of Auburn	6-27-56	24	--	58	33	--	6,000 6,200,000 620,000 230,000	--	0.43 ± 0.31 ^e ; 8.56 ± 4.7 ^f Radioactivity test on B-27-59.
		7-16-57	24	0.8	23	20	3.5	--	--	
		9-3-58 9-3-59	-- 8	-- --	-- 22	-- 18	-- 8.1	-- 6,000	8.92 ± 3.25	
		6-26-56	24	--	38	13	--	620,000 6,200,000 2,300,000	--	
10	City of Roseville	7-16-57	12	1.4	21	33	--	--	--	0.00 ± 0.29 ^e ; 28.27 ± 3.7 ^f Chlorine contact chamber
		9-3-58 9-14-59	9 15	1.5 --	-- 17	-- 28	-- 9.6	6,000	13.1 ± 4.2	
		8-27-59	8	--	78	58	17.2	6,000	12.11 ± 3.37	
12	Sacramento County Sanitary District No. 6	6-27-56	24	--	22	10	--	230,000 2,300,000 620,000	--	0.32 ± 0.31 ^e ; 12.99 ± 3.9 ^f
		7-16-57 9-3-58 9-14-59	24 9 8	-- 3.6 --	15 -- 22	11 -- 22	-- -- 10.0	-- 2,300,000	9.47 ± 3.7 8.4 ± 4.1	
		6-3-56	24	--	10	3	--	620,000 2,300,000 620,000	--	
		6-3-59 9-14-59 11-25-69	24 24 --	-- -- --	20 22 --	0.05 21 --	8.6 3.8 --	62,000 62,000 62,000	12.0 ± 4.2	
14	City of Woodland	6-25-56	24	--	146	113	--	13,000,000 63,000,000 6,200,000	--	0.14 ± 0.25 ^e ; 2.43 ± 3.5 ^f
		7-15-57 9-4-58 4-13-61	16 8 --	-- -- --	115 -- 105	120 -- 83	26 -- 37.2	-- 7,000,000	--	
		6-25-56	24	--	78	61	--	23,000,000 24,000,000 23,000,000	--	
15	City of Davis	7-15-57 9-4-58 9-14-59	16 9 8	0.8 1.2 --	77 -- 160	73 -- 139	15 -- 15.6	-- 23,000	--	0.0 ± 0.29 ^e ; 5.01 ± 3.6 ^f

c. Filtrate
 d. Sludge
 e. Alpha
 f. Beta

TABLE D-5 (continued)
CENTRAL VALLEY REGION (NO. 5)
SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

Number	Agency	Date sampled	Hours com- posi- ted	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity (μ c/l)	Remarks
16	West Sacramento Sanitary District	9/19-20/56 9-4-58 6-3-59 9-3-59	-- 8 8 8	-- -- -- --	-- 58 212	185 -- 89 137	-- 45.8 26.7	-- 6,000 6,000	--	0.14 \pm 0.25 ^e ; 0.43 \pm 0.55 ^f 0.16 \pm 0.27 ^e ; 10.41 \pm 3.81 ^f
17	City of Sacramento	9/19-27/55 8-57	Monthly Average	45.7	57	242 172	25.0	--	--	
	(b)	6-58	Monthly Average	38.1	67	135	23.0	--	--	
		9-2-59 3-3-61	8 --	-- --	62 --	301 193	20.9 --	70,000,000 --	6.7 \pm 4.0 --	
18	Sacramento County Parkway Estates Sewer Maintenance District	9-2-59 4-20-61	8 24	-- --	52 16	24 35	8.6 9.2	62,000 2,300,000 7,000,000	-- -- --	Final Clarifier
19	Sacramento County Sanitation District No. 3	9-3-59	8	--	20	13	7.8	6,000	4.3 \pm 4.0	
20	Sacramento County Cordova Sewer Maintenance District	8-20-60 4-20-61	24 24	-- --	18 8	6.2 18	14 5.2	6,000 7,000,000 500,000	1.6 \pm 4.0 --	Radiochemical Sampled 9-2-59
21	Mather Air Force Base	6-28-56 6-3-59 9-2-59	24 24 24	-- -- --	14 53 45	7 22 27	-- 4.7 6.9	-- 6,000 6,000 6,000	-- 8.1 \pm 4.1	0.47 \pm 0.35 ^e ; 7.54 \pm 4.0 ^f
22	City of Vacaville--Brown Street	8-4-60	24	--	108	26	24	230,000	--	
24	Fibreboard Products, Antioch 1 Street and L Street Plant	9-17-56 8-20-57 8-26-58 7-23-59	8 10 -- 8	-- -- -- 6.2	770 482 -- 60	209 138 -- 128	27 -- -- 20.4	-- -- -- --	-- -- -- 15.69 \pm 3.25	0.32 \pm 0.39 ^e ; 4.59 \pm 3.4 ^f
25	City of Antioch	9-21-56 8-19-57 8-26-58 7-22-59	-- 16 8 --	-- 0.6 1.1 1.3	98 87 -- 56	112 126 -- 71	-- 53 -- 56.4	62,000,000 240,000,000 770,000,000 6,200,000 23,000,000 -- 240,000	-- -- -- 13.50 \pm 3.20	0.16 \pm 0.42 ^e ; 1.10 \pm 3.4 ^f

c. Filtrate
d. Sludge
e. Alpha
f. Beta

TABLE D-5 (continued)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS
 CENTRAL VALLEY REGION (NO. 5)

Number	Agency	Date sampled	Hours com- posited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn /100ml)	Gross radioactivity (μ rc /l)	Remarks	
26	Crown-Zellerbach Corporation	6-1-59	24	16.5	157	46	5.8	240,000	--		
		7-23-59	8	--	230	61	8.6	23,000	15.69 \pm 3.25		
27	Fibreboard Products, Wilbur Avenue Plant, Antioch	9-21-56	8	--	458	163	26	--	--	0.32 \pm 0.39 ^e ; 0.0 \pm 3.44 ^f	
		8-21-57	8	18.0	538	147	--	--	--		
		8-26-58	--	--	--	--	--	--	--		--
		7-23-59	8	18.4	224	295	82.6	--	11.29 \pm 3.15		
29	City of Lodi	7-11-56	24	--	54	26	22	23,000,000 6,200,000	--	0.0 \pm 0.42 ^e ; 0.97 \pm 3.5 ^f	
		7-17-57	24	2.4	10	11	3.4	23,000,000 230,000	6.27 \pm 3.08		
30	North Utility District (Lincoln Village)	9-3-58	10	2.6	--	--	2.9	--	--		
		7-24-59	12	3.1	6	10	--	620,000 240,000	--		
		4-14-61	--	--	--	--	--	--	--		
		7-7-56	24	--	72	112	21	23,000,000 62,000,000	--		
31	City of Stockton North Plant	7-7-56	24	--	37	94	44	240,000,000 240,000,000	--	0.57 \pm 0.57 ^e ; 15.29 \pm 3.7 ^f	
		7-17-57	24	--	68	118	13	--	--		
		9-3-58	8	--	--	--	--	--	--		
		7-24-59	24	--	56	122	17.6	--	7.86 \pm 3.10		
32	City of Stockton South Plant	7-7-56	24	--	12	16	13	23,000,000 240,000,000	--	0.57 \pm 0.42 ^e ; 10.66 \pm 3.7 ^f	
		7-17-57	24	11.7	84	346	30	--	--		
		9-3-58	24	--	69	29	5.6	--	--		
		7-24-59	24	12.9	--	27	--	240,000	4.34 \pm 3.03		
33	City of Tracy Industrial	7-5-56	24	--	70	453	10	7,240,000,000 7,240,000,000	--	0.0 \pm 0.27 ^e ; 11.27 \pm 3.7 ^f	
		7-20-59	8	1.8	58	120	9.7	21,000,000 70,000,000	--		
		7-5-56	24	--	33	27	13	72,400,000,000 72,400,000,000	--		
		7-18-57	16	1.1	33	17	--	--	--		
Domestic		9-3-58	24	--	--	--	--	--	--		
		7-24-59	8	1.3	14	17	11.9	2,300,000	1.47 \pm 2.65		

e. Alpha
 f. Beta

TABLE D-5 (continued)
CENTRAL VALLEY REGION (NO. 5)
SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

Number	Agency	Date sampled	Hours com- posited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\text{C}/\text{l}$)	Remarks
34	City of Manteca	7-21-59	16	--	59	207	12.3	--	12.40 ± 4.07	ABS - 1.6 ppm.
		4-6-61	Grab	--	--	--	--	7,000,000 7,000,000	--	
35	City of Modesto	8-31-61	Grab	--	208	380	15	94	3.2 - 2.6	0.15 ± 0.25 ^e ; 9.69 ± 3.5 ^f
		7-11-56	24	--	52	177	20	62,000,000 62,000,000 240,000,000	--	
		7-19-57	12	--	32	10	--	230 230	--	
		8-19-58	8	7.2	--	--	3.3	--	8.17 ± 4.07	
		7-20-59	24	6.4	32	10	16	2,300	--	
36	City of Turlock Domestic Sewage	7-5-56	24	--	21	14	16	2,300,000 620,000 2,300,000	--	0.29 ± 0.29 ^e ; 0.0 ± 3.1 ^f ABS - 2.7 ppm.
		7-18-57	16	0.7	37	23	5.8	--	--	
		3-19-58	8	3.9	--	--	--	--	5.10 ± 4.02	
		7-20-59	8	1.1	10	64	12.5	--	--	
		4-6-61	Grab	--	--	--	--	7,000,000	14.6 ± 4.2	
		9-28-61	24	--	50	62	17	7,000,000	--	
		7-5-56	24	--	24	41	13	1,300,000 7,240,000,000 7,240,000,000	--	
		7-18-57	16	--	48	231	12	--	6.03 ± 4.03	
		7-20-59	8	1.0	108	364	17.0	7,000,000	11.9 ± 3.9	
		7-6-61	Grab	--	--	--	--	7,000,000	--	
37	Castle Air Force Base	9-28-61	24	--	112	333	26	2,300,000 2,300,000 2,300,000	--	0.16 ± 0.15 ^e ; 14.40 ± 3.6 ^f
		7-10-56	24	--	15	21	over 7	2,400,000 6,200,000 6,200,000	--	
		6-10-59	24	0.8	7	19	14.5	6,200,000 6,200,000 5,000,000	5.19 ± 4.02	
7-20-59	24	0.7	18	21	11	--	--	--		

e. Alpha
f. Beta

TABLE D-5 (continued)

SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

CENTRAL VALLEY REGION (NO. 5)

Number	Agency	Date sampled	Hours com- posited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity (μ uc/l)	Remarks		
38	City of Atwater	7-29-59	8	2.3	41	21	10.8	2,300	13.90 \pm 4.10	ABS - 2.3 ppm		
		8-31-61	Grab	--	60	80	9.9	2,300 94	10.6 \pm 2.8			
39	City of Merced	7-10-56	24	--	51	65	15	2,000,000	--	0.0 \pm 0.25 ^e ; 4.40 \pm 3.5 ^f		
		7-19-57	24	4.0	53	60	9.3	23,000,000	--			
		8-19-58	8	--	--	--	--	--	--		--	
		7-20-59	8	2.6	92	33	16.6	2,100,000	8.17 \pm 4.07			
40	City of Madera	7-14-56	24	--	45	20	--	23,000,000	--	0.14 \pm 0.32 ^e ; 1.44 \pm 3.14 ^f		
		7-29-57	16	--	37	31	32	6,200,000	--			
		8-19-58	9	3.9	--	--	--	--	--		5.19 \pm 4.02	
		7-17-59	16	1.6	11	28	17.5	2,300,000	--			
		4-7-61	Grab	2.2	--	--	--	7,000,000	--			
		9-27-61	24	--	34	53	15	7,000,000	0 \pm 3.3			
		3-21-62	Grab	--	--	--	--	--	--		--	
		4-6-62	Grab	--	--	--	--	--	--		--	
		Nitrogen $\frac{\text{ppm}}{\text{ppm as N}}$										
		Org.N:NH ₄ : NO ₂ : NO ₃ : Total : : : : : : : : : : :										
3.9 29.4 0.00 0.9 3.9 22.7 0.00 0.2 26.8												
Phosphate $\frac{\text{ppm}}{\text{ppm as P}}$												
Ortho-P : Total-P : Org. P : : : : : :												
20 21 27 6.52 6.85 8.81												

e. Alpha
f. Beta

TABLE D-5 (continued)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

CENTRAL VALLEY REGION (NO. 5)

Number	Agency	Date sampled	Hours com- posi- ted	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\mu\text{c/l}$)	Remarks
41	City of Clovis	7/14-15/60	24	--	33	4.2	20	--	--	ABS - 5.4 ppm
		4-12-61 9/26-27-61	Grab 24	--	14	31	12	2,400,000 2,400,000	3.9 \pm 3.8	
42	City of Fresno	7-14-56	24	--	34	76	--	2,900,000 370,000	--	0.37 \pm 0.45 ^e ; 6.29 \pm 3.5 ^f
		7-30-57	22	--	66	210	26	--	--	ABS - 2.7 ppm
		8-21-58	9	38.0	--	--	--	--	--	
		7-17-59	24	24.0	59	95	16.8	--	9.59 \pm 4.05	--
		4-12-61 7-20-61	Grab 24	--	60	194	30	--	7,000,000 --	17.4 \pm 0.1
43	City of Sanger Domestic Sewage	7-13-56	24	--	33	63	--	23,000,000 23,000,000 23,000,000	--	1.50 \pm 0.64 ^e ; 7.86 \pm 3.5 ^f ABS - 2.4 ppm Phenol - 0.020 ppm
		7-29-57	16	1.5	48	78	17	--	--	
		8-21-58	8	1.7	--	--	23.0	--	3.77 \pm 3.96	--
		7-20-59	8	1.2	31	73	--	--	--	--
		7/14-15/60 4-12-61 5-8-62	24 Grab Grab	--	86	51	56	--	7,000,000 --	--
Org.N:NH ₄ : NO ₂ : NO ₃ : Total : : : : 6.8 18.0 0.00 4.4 -- 6.8 14 0.00 0.1 20.9 Phosphate $\frac{\text{ppm}}{\text{ppm as P}}$ Ortho-P : Total-P : Org. + T : : : : 16 16 0.52 0.52										

e. Alpha
f. Beta

TABLE D-5 (continued)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

CENTRAL VALLEY REGION (NO. 5)

Number	Agency	Date sampled	Hours com- pounded	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Caliform (mpn/100ml)	Gross radioactivity ($\mu\text{mc}/\text{l}$)	Remarks
43	City of Sanger (continued) Industrial Waste	7-13-56	24	--	236	720	--	23,000,000 23,000,000 6,000,000	--	
		7/14-15/60	24	--	55	24	86	7,000,000 2,400,000 7,000,000 2,300	--	
		4-12-61	Grab	--	--	--	172	2,400,000 2,400,000 230,000	--	
44	City of Lenoore	7/12-13/60	24	--	185	52	--	2,400,000 2,400,000	--	
		9	Grab	--	--	--	19	2,400,000	5.1 ± 2.6	
45	City of Hanford	9-12-61	Grab	--	334	110	--	950,000 1,300,000 2,300,000	--	
		9-26-61	Grab	--	84	41	--	13	--	0.29 ± 0.20 ^g ; 0.0 ± 3.4 ^f
		7-14-56	24	--	--	--	--	--	--	
		7-7-57	16	2.3	41	44	--	--	--	
		8-19-58	9	2.5	--	--	--	--	--	
		7-17-59	8	1.15	66	73	--	--	2,89 ± 3.90	
		4-12-61	8 Grab	1.75	--	--	--	6,200 7,000,000	--	
		4-22-61	Grab	--	--	--	18	--	--	COD - 463 ppm
		9-12-61	Grab	--	68	20	12	--	2,300	Nitrogen $\frac{\text{Dpm}}{\text{ppm as N}}$
		9-26-61	Grab	--	--	1	--	--	--	Ortho-P: Total-P: Org.+ T : : -P
4-3-62	Grab	--	--	1	20	--	--	13 18.0 0.0 1.3 --		
				2.67 -day - 27					13 14 0.00 0.3 27.30	
				5.13 -day - 135					Phosphate $\frac{\text{ppm}}{\text{ppm as P}}$	
				10.29-day - "					Ortho-P: Total-P: Org.+ T : : -P	
				15.5 -day - "					15 46 72	
				20.58-day - "					14,68 15.01 23.49	
				30.68-day - "						

TABLE D-5 (Continued)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS
 CENTRAL VALLEY REGION (NO. 5)

Number	Agency	Date sampled	Hours com- sited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\mu\text{c/l}$)	Remarks
L6	City of Visalia	7-13-56	24	--	28	15	--	23,000,000 6,200,000 6,200,000	--	
		7-30-57	16	--	69	75	4	--	--	
		8-20-58	8	0.5	--	--	--	--	--	
		7-16-59	24	--	68	43	3.2	15.58 \pm 4.10	--	0.29 \pm 0.35 ^e ; 9.97 \pm 3.5 ^f
		4-12-61	24	--	--	--	--	7,000,000	--	ABS - 4.1 ppm
		3-20-62	Grab	--	--	--	--	--	--	
L7	City of Corcoran	7-20-59	8	1.4	36	82	42.8	70,000,000 24,000,000	3.09 \pm 3.80	
		9-12-61	Grab	--	--	--	17	13,000	0.0 \pm 2.3	
		9-26-61	Grab	--	66	32	--	--	--	
L8	City of Tulare Domestic	7-13-56	24	--	48	22	--	94,000 210,000 620,000	--	
		7-30-57	16	--	73	127	--	6,200,000	--	
		7-15-59	12	--	23	18	10.6	21,000,000	2.24 \pm 3.85	
		7/12-13/60	24	--	43	19	51	--	--	
		4-12-61	Grab	--	--	--	--	--	11.9 \pm 3.3	
		7-13-56	24	--	55	66	--	6,000,000 6,000,000,000 5,000,000	--	
	Industrial wastes	8-20-58	8	1.4	--	55	276	230,000 620,000 230,000	0.58	
		7/12-13/60	24	--	76	--	--	7,000,000	--	
		4-12-61	Grab	--	180	--	24	--	--	
		4-3-62	Grab	--	--	1	--	--	--	
						2.67 -day - 73				ABS - 0.1 ppm, COD - 73 ppm Nitrogen ppm as N
						5.12 -day - 314				Org.N:NH ₄ : NO ₂ : NO ₃ : Total : : : -N
						7.21 -day				31 2.1 0.00 0.9 --
						10.3 -day				31 1.6 0.00 0.2 32.80
						15.5 -day				Phosphate ppm ppm as P
						20.58 -day				Ortho-P : Total-P : Org. + I : : -P
						30.08 -day				L7 60 89 15.33 19.57 29.03

e. Alpha
f. Beta

TABLE D-5 (Continued)
 CENTRAL VALLEY REGION (NO. 5)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

Number	Agency	Date sampled	Hours com- poted	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\mu\text{c/l}$)	Remarks
49	City of Lindsay	7-15-59	8	--	50	207	45.6	--	9.0.2 + 4.00	ABS - 1.9 ppm ABS - 0.9 ppm Phenol - 0.040 ppm Nitrogen $\frac{\text{ppm}}{\text{ppm as N}}$ Org. N: NH ₄ : NO ₂ NO ₃ : Total -N 16 30.9 -- 6.2 -- 16 24 -- 1.4 41.40 Phosphate $\frac{\text{ppm}}{\text{ppm as P}}$ Ortho-P : Total-P : Org. +T -P 28 30 42 9.13 9.79 13.70 0.0 + 0.29 ^f ; 2.10 + 3.4 ^f ABS - 3.2 ppm Phenol - 0.002 ppm Nitrogen $\frac{\text{ppm}}{\text{ppm as N}}$ Org. N: NH ₄ : NO ₂ NO ₃ : Total -N 5.6 21.6 10.81 2.2 -- 5.6 16.8 3.29 0.5 26.19 Phosphate $\frac{\text{ppm}}{\text{ppm as P}}$ Ortho-P : Total-P : Org. +T -P 2.0 33 48 0.65 10.76 15.66
		4-12-61	Grab	--	--	--	--	7,000,000	--	
		1-4-62	Grab	--	--	243	--	--	--	
		4-2-62	Grab	--	--	--	--	--	--	
50	City of Porterville	7-13-56	16	--	--	6	--	92,000	--	
		7-25-57	24	0.7	17	15	32	--	--	
		8-20-58	8	1.0	--	--	--	--	--	
		4-14-59	8	0.5	11	5.5	7.9	--	5.96 + 2.90	
		4-12-61	Grab	--	--	--	--	7,000,000	--	
		4-5-62	Grab	--	--	12	--	--	--	

e. Alpha
 f. Beta

TABLE D-5 (Continued)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

Number	Agency	Date sampled	Hours composited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity (μuc/l)	Remarks	
51	City of Delano	7-16-56	24	--	11	21	--	6,200,000 2,300,000 23,000,000	--		
		7-23-57	18	0.9	46	40	13	--	--	0.0 ± 0.20 ^e ; 5.59 ± 3.5 ^f	
		8-20-58	8	2.7	--	--	--	--	--	--	
		7-15-59	8	1.1	14	10	9.2	--	4.85 ± 2.92		
		4-11-61	Grab	--	--	--	--	--	2,400,000	--	OOD - 179 ppm
		4-3-62	Grab	--	--	--	--	--	--	--	Nitrogen $\frac{\text{ppm}}{\text{ppm as N}}$
52	North-of-River Sanitary District	7-16-56	24	--	6	14	--	23,000 6,200,000 620,000	--		
		7-25-57	24	2.4	20	15	24	--	--		
		8-20-58	8	2.4	--	--	--	--	--	--	
		7-14-59	24	1.7	10	1.6	7.0	--	7.92 ± 3.30	0.0 ± 0.37 ^e ; 7.09 ± 3.5 ^f	
		4-11-61	Grab	--	--	--	--	600	--	--	
		8-30-61	Grab	--	139	11	3.7	94	7.6 ± 2.7	--	ABS - 3.6 ppm

e. Alpha
 f. Beta

TABLE D -5 (Continued)
 CENTRAL VALLEY REGION (NO. 5)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

Number	Agency	Date sampled	Hours composited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity (μmc/l)	Remarks	
52	North-of-River Sanitary District (continued)	4-6-62	Grab	--	--	5-day - 19	--	--	--	ABS - 3.6 ppm	
						20-day - 99				Nitrogen $\frac{\text{ppm}}{\text{ppm as N}}$	
53	City of Bakersfield Plant No. 1	7-17-56	24	--	2.3	71	--	62,000,000 23,000,000 62,000,000	--	ORG.N:NH ₄ :NO ₂ :NO ₃ :Total - N	
						91				43	4.1 9.4 2.37 45.6 --
						95				14.03	4.1 7.3 0.72 10.3 22.42
						--					Phosphate $\frac{\text{ppm}}{\text{ppm as P}}$
						5.16					Ortho-P: Total-P:Org.+T : -P
						20.00					43 73
						30.00					14.03 23.81
						--					1.30 ± 0.55%; 4.18 ± 3.5f
						--					ABS - 1.4 ppm COD - 319 ppm
						--					Nitrogen $\frac{\text{ppm}}{\text{ppm as N}}$
54	City of Bakersfield Plant No. 1	7-24-57	8	1.9	59	91	52	62,000,000 23,000,000 62,000,000	--	ORG.N:NH ₄ :NO ₂ :NO ₃ :Total - N	
						95				27.2	11.3 27.8 0.00 0.0 --
						--					11.3 21.6 0.00 0.0 32.90
						5.16					Phosphate $\frac{\text{ppm}}{\text{ppm as P}}$
						20.00					Ortho-P: Total-P:Org.+T : -P
						30.00					31 37 63
						--					10.11 12.07 20.55
						--					
						--					
						--					

e. Alpha
 f. Beta

TABLE D - 5 (Continued)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

CENTRAL VALLEY REGION (NO. 5)

Number	Agency	Date sampled	Hours com- p- sited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Either soluble material (ppm)	Caliform (mpn/100ml)	Gross radioactivity ($\mu\mu\text{c}/\text{l}$)	Remarks																																																																																								
54	City of Bakersfield Plant No. 2	7-17-56	24	--	15	81	--	62,000,000 62,000,000 62,000,000	--																																																																																									
		7-24-57	--	--	51	62	16	--	--																																																																																									
		8-20-58	8	7.7	--	60	--	--	--																																																																																									
		7-15-59	24	7.9	26	60	12.6	70,000,000 70,000,000 24,000,000	8.91 \pm 3.10	0.00 \pm 0.37 ^e ; 10.25 \pm 0.37 ^f																																																																																								
		8-30-61	0rab	--	32	46	44	24,000,000	10.8 \pm 2.7	ABS - 4.9 ppm																																																																																								
55	Mt. Vernon County	7-16-56	24	--	15	27	--	62,000,000 2,300,000 2,300,000	--																																																																																									
		7/25-28/57	24	3.9	36	35	117	--	--																																																																																									
		8-20-58	8	5.6	--	24	24	--	--	0.75 \pm 0.58 ^e ; 10.14 \pm 3.5 ^f																																																																																								
		7-13-59	24	5.3	19	24	11.3	7,000,000 7,000,000	10.50 \pm 3.05																																																																																									
		4-11-61	0rab	--	--	--	--	--	--																																																																																									
		4-4-62	0rab	--	--	--	5.46-day - 103 20.00-day - 289 30.00-day -	--	--	ABS - 3.4 ppm COD - 263 ppm Nitrogen $\frac{\text{ppm}}{\text{ppm as N}}$																																																																																								
<table border="0" style="width: 100%;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">Org. N; NH₄</td> <td style="width: 10%;">: NO₂</td> <td style="width: 10%;">: NO₃</td> <td style="width: 10%;">: Total</td> <td style="width: 10%;"></td> <td style="width: 10%;">: - N</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td>14.0</td> <td>37.8</td> <td>0.00</td> <td>0.9</td> <td>--</td> <td>--</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>14.0</td> <td>29.4</td> <td>0.00</td> <td>0.2</td> <td>43.60</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td colspan="10">Phosphate $\frac{\text{ppm}}{\text{ppm as P}}$</td> </tr> <tr> <td></td> <td colspan="10">Ortho-P : Total-P : Org. P</td> </tr> <tr> <td></td> </tr> <tr> <td></td> <td>59</td> <td>59</td> <td>72</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>19.25</td> <td>19.25</td> <td>23.49</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>												Org. N; NH ₄	: NO ₂	: NO ₃	: Total		: - N						14.0	37.8	0.00	0.9	--	--						14.0	29.4	0.00	0.2	43.60							Phosphate $\frac{\text{ppm}}{\text{ppm as P}}$											Ortho-P : Total-P : Org. P																						59	59	72									19.25	19.25	23.49							
	Org. N; NH ₄	: NO ₂	: NO ₃	: Total		: - N																																																																																												
	14.0	37.8	0.00	0.9	--	--																																																																																												
	14.0	29.4	0.00	0.2	43.60																																																																																													
	Phosphate $\frac{\text{ppm}}{\text{ppm as P}}$																																																																																																	
	Ortho-P : Total-P : Org. P																																																																																																	
	59	59	72																																																																																															
	19.25	19.25	23.49																																																																																															

e. Alpha
f. Beta

TABLE D-5 (continued)
 CENTRAL VALLEY REGION (NO. 5)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

Number	Agency	Date sampled	Hours com- posited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\text{mc}/\text{l}$)	Remarks
56	City of Taft	7-17-56	24	--	156	88	--	62,000,000 6,200,000 230,000	--	
		7-24-57	24	0.6	100	96	18	--	--	0.0 \pm 0.45 ^e ; 8.39 \pm 3.5 ^f
		8-20-58	8	0.8	--	--	--	--	0.00 \pm 3.10	
		7-13-59	8	0.9	47	49	19.0	--	--	
		4-11-61	Grab	--	--	--	--	--	2,400,000	
		4-4-62	Grab	--	--	--	--	--		
Nitrogen $\frac{\text{ppm}}{\text{ppm as N}}$ Org.N:NH ₄ : NO ₂ : NO ₃ : Total : : : : 9.3 37.0 0.00 0.9 -- 9.3 28.0 0.00 0.2 38.30 Phosphate $\frac{\text{ppm}}{\text{ppm as P}}$ Ortho-P : Total-P : Org. + T : : : : 14 64 96 4.57 20.88 31.32										

e. Alpha
 f. Beta

TABLE D-6
SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

LAKONTAN REGION (NO. 6)

Number	Agency	Date sampled	Hours composited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20°C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\mu\text{c/l}$)	Remarks
1	Sueanville Consolidated Sanitary District	5-4-59 4-27-61	8 --	0.6 --	46 44	24 113	9.0 20	600 2,300 1,300	0.15 8.6	
2	South Tahoe Public Utilities District	5-5-59 4-27-61	4 24	0.3 --	94 5	151 --	17 6.0	6,200,000 62,000	-- --	
3	City of Bishop	7-31-58	16	0.9	38	66	60	24,000,000 620,000	0.68 + 0.48 ^e 11.7 + 4.2 ^f 10.0 + 2.8 ^c	
4	U. S. Naval Ordnance Test Station, China Lake	6-30-60	8	1.0	47	139	40	23,000 4,600 6,000 4,500 4,500	-- C.0 + 0.3 ^c 1.7 + 3.3 ^d 11.0 + 1.4 ^c 27.8 + 2.4 ^d	
5	Edwards Air Force Base	7-20-56 7-31-58	-- Grab	-- --	55 692	14 240	305 251	< <	-- 0.0 + 0.2 ^e 38.1 + 4.8 ^f	
6	Lancaster (Los Angeles County Sanitation District No. 14)	5-23-60	Grab	1.0	128	78	138	620,000 130,000	15.1 + 1.2 ^c 9.7 + 0.9 ^d	
7	Palmdale (Los Angeles County Sanitation District No. 20)	7-19-56	--	--	50	47	16	24,000,000 2,300,000 620,000	-- --	
		8-2-58	Grab	2.8	898	158	188	7,000,000 2,400,000	0.17 + 0.17 ^e 19.8 + 3.9 ^f	
		5-23-60	Grab	2.5	300	60	54	46,000 12,000	3.2 + 1.4 ^c 21.5 + 2.4 ^d	
		7-19-56	Grab	--	115	48	53	<	2,300 23,000	--
		8-2-58	Grab	--	282	57	214	620,000 620,000	0.17 + 0.38 ^e 26.4 + 4.5 ^f	
		5-23-60	Grab	0.5	233	42	138	2,400,000 2,400,000	1.6 + 0.9 ^c 0.5 + 0.9 ^d	
8	Victorville Sanitary District	7-20-56	Grab	--	254	82	145	23,000 6,200,000	--	
		8-1-58	Grab	--	268	208	230	> 7,000,000 > 7,000,000	0.0 + 0.2 ^e 9.3 + 4.1 ^f	
		5-24-60	Grab	--	62	103	11	> 7,000,000 > 7,000,000	0.0 + 1.1 ^c 1.2 + 1.0 ^d	

c. Filtrate
d. Sludge
e. Alpha
f. Beta

TABLE 10-0 (continued)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

LAHONTAN REGION (NO. 6)

Number	Agency	Date sampled	Hours com- posi- sited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\text{C}/\text{l}$)	Remarks
9	City of Barstow	7-20-56	--	--	81	24	--	2,300,000 2,300,000 620,000	--	
		8- 1-58	Grab	--	192	58	16	2,300 6,200	0.0 + 0.2 ^{1c} + 4.1 ^f	
		5-24-60	Grab	1.0	30	82	7.4	7,000,000 7,000,000	12.0 + 1.5 ^c 9.3 + 1.5 ^c	
		4-17-61	Grab	--	--	--	20	--	3.4 + 1.1 ^d 1.1 + 0.5 ^c 2.7 + 0.8 ^d	
10	U. S. Marine Corps Supply Center, Nebo Plant	5-24-60	Grab	0.5	94	26	1	46,000 4,500	7.2 + 2.1 ^c 62.1 + 0.9	
		4-17-61	Grab	--	--	--	18	--	23.4 + 2.2 ^c 8.4 + 0.9 ^d	

c. Filtrate
 d. Sludge
 e. Alpha
 f. Beta

TABLE D-7
 COLONIAL RIVER BASIN REGION (RD. 7)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

Number	Agency	Date sampled	Hours com- posited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn /100mL)	Gross radioactivity ($\mu\mu\text{c/l}$)	Remarks
1	City of Banning	7-25-58	Grab	--	83	63	18	> 700,000	0.0 + 0.30 ^e	Oxidation lagoon
		5-25-60	Grab	1.0	98	186	35	> 7,000,000	1.4 + 3.5 ^e	Influent to oxidation lagoon
		5-25-60	Grab	0.3	78	63	14	> 7,000,000	0 + 1.1 ^c	
2	Coachella Sanitary District	7-23-56	Grab	--	78	14	15	> 7,000,000	2.8 + 1.4 ^d	
3	Indio Sanitary District	7-22-58	24	--	27	26	8	130,000	0.68 + 0.48 ^e	
		5-25-60	Grab	1.3	75	38	5	62,000	14.2 + 4.2 ^f	
		7-23-56	Grab	--	122*	38	4	6,000	2.8 + 1.1 ^c	
4	City of Palm Springs	7-25-58	Grab	--	48	24	11	2,300	11.4 + 2.3 ^d	
		5-25-60	Grab	0.8	39	36	34	7,000,000	--	*High algae content
5	U. S. Marine Corps Training Center, Twentynine Palms	7-23-56	Grab	--	51	18	0.2	13,000	0.50 + 0.30 ^e	
		7-25-58	Grab	--	59	32	18	23,000	9.1 + 3.6 ^f	
		5-26-60	Grab	1.1	38	24	76	62,000	0.4 + 0.9 ^c	
		7-26-56	24	--	27	24	13	62,000	1.2 + 0.8 ^d	
6	City of Brawley	7-22-58	24	--	315	47	50	13,000,000	--	
		6- 9-60	Grab	1.5	136	138	27	6,200,000	1.2 + 0.54 ^e	
								62,000,000	2.6 + 3.8 ^f	
								> 7,000,000	8.7 + 1.2 ^c	
								> 7,000,000	2.5 + 1.2 ^d	

c. Filtrate
 d. Sludge
 e. Alpha
 f. Beta

TABLE D-7 (continued)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

COLORADO RIVER BASIN REGION (NO. 7)

Number	Agency	Date sampled	Hours com- posi- sited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn /100ml)	Gross radioactivity (μ c / l)	Remarks
7	City of El Centro	7-26-56	24	--	100	98	7	13,000,000 23,000,000 620,000	--	
		7-21-58	24	3.8	145	169	148	--	0.0 + 0.30 ^e 11.4 \pm 3.7 ^f --	
		11-27-59	Grab	1.7	60	37	--	240,000 24,000 62,000 620,000	--	
8	City of Holtville	6- 9-60	Grab	2.5	85	27	60		3.2 + 0.9 ^c 11.2 \pm 1.4 ^d --	
		7-25-56	24	0.6	44	14	12	23,000,000 6,200,000 6,200,000	--	
		7-22-58	16	0.9	54	21	12	60,000 620,000 500,000 620,000	0.17 + 0.38 ^e 8.3 \pm 4.1 ^f 7.8 + 1.2 ^c 95.3 \pm 2.4 ^d	
9	City of Needles	7-22-56	--	--	23	40	4	6,200,000	--	
		8- 1-58	Grab	--	35	31	61	230,000 23,000 62,000 23,000	0.0 + 0.17 ^c 12.3 \pm 3.8 ^f --	
		5-17-60	Grab	0.7	67	22	45			
10	City of Blythe	7-22-56	--	--	45	44	5	62,000,000	--	
		8- 1-58	Grab	--	164	29	54	7,000,000 620,000 >7,000,000 >7,000,000	0.0 + 0.34 ^e 4.3 \pm 3.6 ^f --	
		5-18-60	Grab	0.9	28	74	53			

c. Filtrate
 d. Sludge
 e. Alpha
 f. Beta

TABLE D-8
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

SAVANA AREA REGION (NO. 8)

Number	Agency	Date sampled	Hours composited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity (μuc/l)	Remarks
1	City of Chino Plant No. 1	8-10-56	24	--	9	12	10	620,000 6,200,000 2,300,000	--	Unavailable
2	City of Chino Plant No. 2	7-29-58	24	1.9	8	11	20	6,000	0.0 + 0.17 ^e 14.5 ± 4.2 ^f	Unavailable
3	City of Colton	6-30-60	--	2.2	7	6	3	6,000 4,500 4,500	3.7 ± 1.0 ^c 6.8 ± 1.7 ^d	Unavailable
4	City of Corona	8-11-56	--	--	40	4	13	23,000 60,000 60,000	--	Unavailable
5	U. S. Marine Corps Air Station El Toro	7-29-58	Grab	0.8	12	19	52	21,000	0.17 ± 0.30 ^e	
		6-28-60	Grab	0.9	50	17	0.4	62,000 23,000 6,000	15.4 ± 3.8 ^f 7.9 ± 1.8 ^c 5.7 ± 1.7 ^d	
6	City of Fontana	8-8-56	24	--	13	22	3	2,300,000 2,300,000	--	Unavailable
		7-7-58	24	0.7	11	5	14	1,300,000 230,000 2,400,000	--	Unavailable
		6-28-60	24	0.9	30	7	0.8	620,000 62,000 4,500	5.5 ± 1.7 ^c 6.7 ± 1.4 ^d	Unavailable
7	Kaiser Steel Corporation Fontana	4-30-53	24	0.4	75	118	--	--	--	
		6-30-60	Grab	0.8	27	78	12	>7,000,000 >7,000,000	1.8 ± 1.1 ^c 12.1 ± 1.9 ^d	Unavailable
8	March Air Force Base Main Plant	8-9-56	--	--	120	5	2	2,300,000 2,400,000	--	Unavailable
		7-24-58	Grab	--	73	37	6.5	2,300,000 2,400,000 500,000	0.0 ± 0.24 ^e 13.5 ± 3.8 ^f	
		6-29-60	21	0.6	12	16	16	< <	2.0 ± 1.0 ^c	

c. Filtrate
 d. Sludge
 e. Alpha
 f. Beta

TABLE D-3 (continued)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

STATISTICAL REGION (NO. 6)

Number	Agency	Date sampled	Hours com- posited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn / 100ml)	Gross radioactivity ($\mu\text{c} / \text{l}$)	Remarks
9	March Air Force Base West Plant	8-9-56 7-24-58	-- Grab	-- --	1 105	1.1 22	3 --	23,000 230,000 620,000 620,000	0.0 + 0.17 ^e 13.5 + 3.8 ^f 2.2 + 0.9 ^c 5.1 + 1.1 ^d	Average for month
10	County Sanitation District of Orange County Plant No. 1	6-56 6-29-60 7-5-60	-- -- 24	-- -- 3.2	145 -- 159	192 -- 170	-- -- 12	-- -- --	-- 3.4 + 1.1 ^c --	
11	County Sanitation Districts of Orange County Plant No. 2	6-29-60 7-5-60	-- 24	-- 25.6	-- 106	-- 160	-- 36	-- --	2.7 + 1.5 ^c --	
12	Cities of Ontario-Upland	8-9-56	24	--	25	17	16	62,000,000 62,000,000 1,300,000 6,200,000 6,200,000 --	-- -- 0.33 + 0.24 ^e 5.5 + 3.6 ^f 17.5 + 3.8 ^c --	
13	City of Redlands	8-11-56	24	--	106	54	4	23,000,000 620,000 62,000,000 2,400,000	-- -- -- 0.0 + 0.30 ^e	
14	City of Rialto	7-29-58 5-25-60 7-28-58	Grab Grab Grab	1.8 2.0 0.8	106 112 109	55 118 60	70 18 11	230,000 -- 7,000,000 7,000,000	9.7 + 3.7 ^f 2.8 + 2.1 ^c 14.2 + 0.8 ^d 0.17 + 0.17 ^e	
15	City of Riverside Plant No. 1	6-30-60 8-11-56 8-13-56 7-25-58 6-28-60	Grab -- -- Grab Grab	0.7 -- -- 7.3 --	32 345 25 33 14	15 10 6 7 15	3 8 7 7 3	6,200 4,600 50,000 60,000 230,000 230,000 2,900 62,000 2,100 620 2,300 13,000 6,000	1.7 + 1.0 ^c 7.4 + 1.7 ^d -- -- -- -- -- 0.3 + 0.24 ^e 10.8 + 3.7 ^f 4.6 + 1.7 ^c 4.8 + 1.4 ^d	

c. Filtrate
 d. Sludge
 e. Alpha
 f. Beta

TABLE D-8 (continued)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

MARINA ANNA REGION (NO. 8)

Number	Agency	Date sampled	Hours com- posited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\text{uc/l}$)	Remarks
16	City of Riverside Plant No. 2	6-28-60	--	0.6	31	48	15	>7,000,000 >7,000,000	14.9 + 1.5 ^c 11.5 + 1.8 ^d	
17	City of San Bernardino Plant No. 1	8-10-56	24	9.7	7	7	10	< 23,000 60,000 23,000	--	
		7-25-58	24	10.4	33	7	18	< 60	0.17 + 0.17 ^e 2.6 + 3.5 ^f	
		6-29-60	24	7.8	15	19	10	4,500 4,500	19.2 + 1.4 ^c 0.5 + 1.1 ^d	
18	City of San Bernardino Plant No. 2	6-29-60	24	4.3	5	11	5.4	6,000 >7,000,000	6.0 + 1.2 ^c 2.3 + 1.2 ^d	
19	City of Seal Beach	6-2-59 6-28-60	1 24	0.5 0.5	65 20	-- 14	-- 0.2	-- 4,500 4,500	-- 1.6 + 0.9 ^c 3.8 + 1.2 ^d	
20	Talbert Water District									Unavailable

c. Filtrate
 d. Sludge
 e. Alpha
 f. Beta

TABLE D-9
SAN DIEGO REGION (NO. 9)
SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

Number	Agency	Date sampled	Hours compared	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity (μuc/l)	Remarks
1	City of Laguna Beach	8-3-56	24	1.3	7.0	5.0	7	6,200,000 2,300,000 2,300,000 620,000 2,400,000 500,000 7,000,000 7,000,000	--	
2	City of San Clemente	7-7-53	24	1.5	42	33	--	23,000 6,200	--	
		6-20-60	Grab	1.9	47	126	45	700,000 240,000 2,400,000 6,000	0.2 + 2.0 ^c 12.1 + 2.1 ^d	
		8-6-56	24	1.1	29	32	10	23,000 6,200	--	
		7-16-53	24	0.3	0	12	23	23 700,000 240,000	1.36 + 0.54 ^e 15.7 + 4.3 ^f	
		6-28-60	24	0.8	31	13	0.2	2,400,000 6,000	3.3 + 1.1 ^c 2.3 + 1.1 ^d	
3	Camp Joseph H. Pendleton Plant No. 1	7-30-56	Grab	--	15	1.0	3	2,300 2,300 6,000 2,400	--	
		7-13-53	Grab	0.3	43	33	17	60	0.33 + 0.24 ^e	
		6-23-60	24	0.7	7	9	4	4,500 4,500	14.3 + 3.5 ^f 4.6 + 1.7 ^c 2.1 + 1.5 ^d	
4	Camp Joseph H. Pendleton Plant No. 2	7-30-56	Grab	--	17	2	1	2,300 2,300 2,300 4,200 4,500	--	
		6-20-60	24	0.6	6	5	5	6,000 6,000	--	
5	Camp Joseph H. Pendleton Plant No. 3	7-30-56	Grab	--	63	24	7	6,000 6,000	--	
		7-18-53	Grab	0.5	60	50	46	70,000 62,000	0.17 + 0.24 ^e 3.1 + 4.0 ^f	
		6-27-60	24	0.6	13	32	9	7,000,000 2,400,000 7,000,000	5.2 + 1.5 ^c 17.2 + 2.9 ^d	
6	City of Oceanside	3-6-56	24	1.9	77	92	6	50,000,000 62,000,000 62,000,000 24,000,000 24,000,000 24,000,000	--	
		7-17-53	24	1.9	72	124	20	23,000 62,000 62,000	0.0 + 0.30 ^e 16.0 + 4.2 ^f	Whelan Lake
		10-6-59	Grab	--	--	--	--	23,000 62,000 62,000	8.3 + 0.9	Whelan Lake
		6-27-60	Grab	2.0	33	44	3	2,400,000	--	Whelan Lake

c. Filtrate
d. Sludge
e. Alpha
f. Beta

TABLE D-9 (continued)
SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

SAN DIEGO REGION (NO. 9)

Number	Agency	Date sampled	Hours composited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\mu\text{c/l}$)	Remarks
7	City of Carlstad	6-19-59	--	--	38	--	--	--	12.4 + 1.0 ^c 10.7 ± 0.8 ^d 5.8 ± 2.8 ^e 38.0 ± 0.9 ^d	
8	Vista Sanitation District	7-18-58	24	--	56	77	17	6,200,000	0.17 ± 0.17 ^e 7.3 ± 4.1 ^f 2,400,000	
9	City of Escondido Plant No. 1	6-27-60	Grab	0.9	105	45	11	2,400,000	0.4 ± 0.9 ^e 3.1 ± 1.0 ^f	
10	City of Escondido Plant No. 2	8-1-56	24	0.8	34	17	--	< 23,000 < 23,000 60,000	--	
11	Santee County Water District	7-16-58	24	1.1	21	26	25	29,000	0.17 ± 0.17 ^e 12.7 ± 4.2 ^f	
12	City of El Cajon	6-22-60	24	1.0	45	28	15	62,000 6,000 4,500	6.7 ± 1.4 ^c 0 ± 0.9 ^d	
13	City of Coronado "B" Street	6-28-60	24	--	10	10	2	< 4,500 < 4,500	4.7 ± 1.8 ^c 9.4 ± 3.2 ^d	
		6-21-60	Grab	0.6	8	2	7	< 4,500 < 4,500	21 ± 3.2 ^c 81.7 ± 0.8 ^d	
		8-1-56	24	0.9	0	1.5	--	< 2,300 < 2,300 < 2,300	--	
		9-24-57	24	--	36	40	--	1,300	0.0 ± 0.17 ^e	
		7-17-58	24	1.8	10	49	13	700,000 700,000	14.5 ± 4.2 ^f	
		6-21-60	24	2.0	11	3	0.6	6,000 4,500	5.3 ± 1.2 ^c 8.2 ± 2.0 ^d	
		8-3-56	24	--	110	101	10	620,000 6,200	--	
		7-17-58	24	1.3	95	122	55	< 600,000 24,000,000	--	
		6-20-60	Grab	1.0	0.4	6	4	< 600,000 4,500	--	
									2.3 ± 1.5 ^c 16.1 ± 1.4 ^d	

c. Filtrate
d. Sludge
e. Alpha
f. Beta

TABLE D-9 (continued)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

SAN DIEGO REGION (NO. 9)

Number	Agency	Date sampled	Hours com- pau- sited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\mu\text{c/l}$)	Remarks	
14	City of Coronado "K" Street	8- 3-56	24	--	209	136	7	70,000,000 23,000 230	--		
		7-17-58	24	--	130	152	92	60,000 62,000,000 6,200,000	--		
		6-20-60	Grab	1.0	2.4	6	0.2	4,500	2.7 \pm 1.2 ^c 5.7 \pm 1.3 ^d		
15	City of San Diego Balboa Trunk	8- 2-56	24	1.4	250	260	--	23,000,000 23,000,000 6,200,000	--		
		7- 9-58	7 days	--	--	--	--	--	0.14 \pm 0.14 ^e 11.8 \pm 3.7 ^f		
	City of San Diego Cabrillo Trunk	7-12-58	24	1.6	256	333	--	--	7,000,000	4.8 \pm 2.5 ^c	
		6-22-60	Grab	1.0	203	174	31	--	7,000,000	10.4 \pm 1.1 ^d 0.28 \pm 0.20 ^e	
		7- 9-58	7 days	--	--	--	--	--	--	14.4 \pm 3.8 ^f	
	City of San Diego East San Diego Trunk	7-14-58	24	0.5	246	256	--	--	--	--	
		8- 2-56	24	--	571	275	--	--	240,000,000 62,000,000 2,300,000	--	
City of San Diego Encanto Trunk	7- 9-58	7 days	--	--	--	--	--	--	0.28 \pm 0.28 ^e		
	7-11-58	24	6.5	345	253	--	--	--	12.7 \pm 3.7 ^f		
	6-22-60	Grab	9.0	440	236	44	--	7,000,000 7,000,000	-- 2.8 \pm 1.4 ^c 34.1 \pm 3.1 ^d		
City of San Diego La Jolla Trunk	7- 9-58	7 days	--	--	--	--	--	--	0.42 \pm 0.37 ^e		
	7-10-58	24	1.6	491	344	--	--	--	12.7 \pm 3.7 ^f		
	7- 9-58	7 days	--	--	--	--	--	--	0.0 \pm 0.28 ^e 15.0 \pm 3.8 ^f		
		7-9 -58	24	2.5	235	188	--	--	--		

c. Filtrate
 d. Sludge
 e. Alpha
 f. Beta

TABLE D-9 (continued)
SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

SAN DIEGO REGION (NO. 9)

Number	Agency	Date sampled	Hours com- posited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\text{mc/l}$)	Remarks	
15	City of San Diego (continued) Linda Vista Trunk	7- 9-58	7 days	--	--	--	--	--	0.0 + 0.25 ^c 16.5 ± 3.8 ^f		
		7- 9-58	24	0.9	294	226	--	--	--		
	City of San Diego Mission Valley Trunk	8- 2-56	24	2.7	297	244	--	--	240,000,000 62,000,000 23,000,000	--	
		7- 9-58	7 days	--	--	--	--	--	0.14 + 0.24 ^e 7.5 ± 3.6 ^f		
	City of San Diego Murray Canyon Trunk	7-14-58	24	2.5	290	172	--	--	< 7,000,000 < 7,000,000	4.2 + 2.0 ^c 30.1 ± 0.8 ^d	
		6-22-60	Grab	2.9	260	235	75	--	--		
16	City of San Diego National City Trunk	7- 9-58	7 days	--	--	--	--	--	0.14 + 0.31 ^e 9.1 ± 3.7 ^f		
		7-10-58	24	1.2	249	240	--	--	--		
	City of San Diego Rose Canyon Trunk	7-15-58	24	1.5	298	290	--	--	--	0.0 + 0.28 ^e 6.7 ± 3.6 ^f	
		7- 9-58	7 days	--	--	--	--	--	--		
17	Spring Valley Sanitation District	7-11-58	24	0.4	269	178	--	--	--		
		7-15-58	24	0.6	--	--	70	--	--		
	City of Chula Vista "C" Street	6-21-60	Grab	0.7	20	5	11	--	4,500 4,500	7.9 + 0.9 ^c 19.2 ± 2.1 ^d	
		8- 1-56	24	--	48	61	--	--	62,000,000 62,000,000 2,300,000	--	
18	City of Chula Vista "J" Street	7-22-58	24	0.6	--	--	--	--	0.18 + 0.31 ^e 14.2 ± 3.8 ^f		
		6-20-60	24	0.6	95	140	40	--	7,000,000 7,000,000	12.1 ± 1.2 11.2 ± 1.1	
	City of Chula Vista "J" Street	7-31-56	24	1.7	78	136	--	--	62,000,000 62,000,000 50,000,000	--	
		7-22-58	24	1.8	--	--	--	--	0.53 + 0.39 ^e 12.4 ± 3.8 ^f		
19	Palm City Sanitation District	6-20-60	24	2.1	115	172	33	7,000,000 7,000,000	40.2 ± 0.9 ^c 11.4 ± 2.4 ^d		
		6-17-59	--	--	--	--	--	--	9.6 + 0.9 ^e 9.1 ± 0.9 ^f		

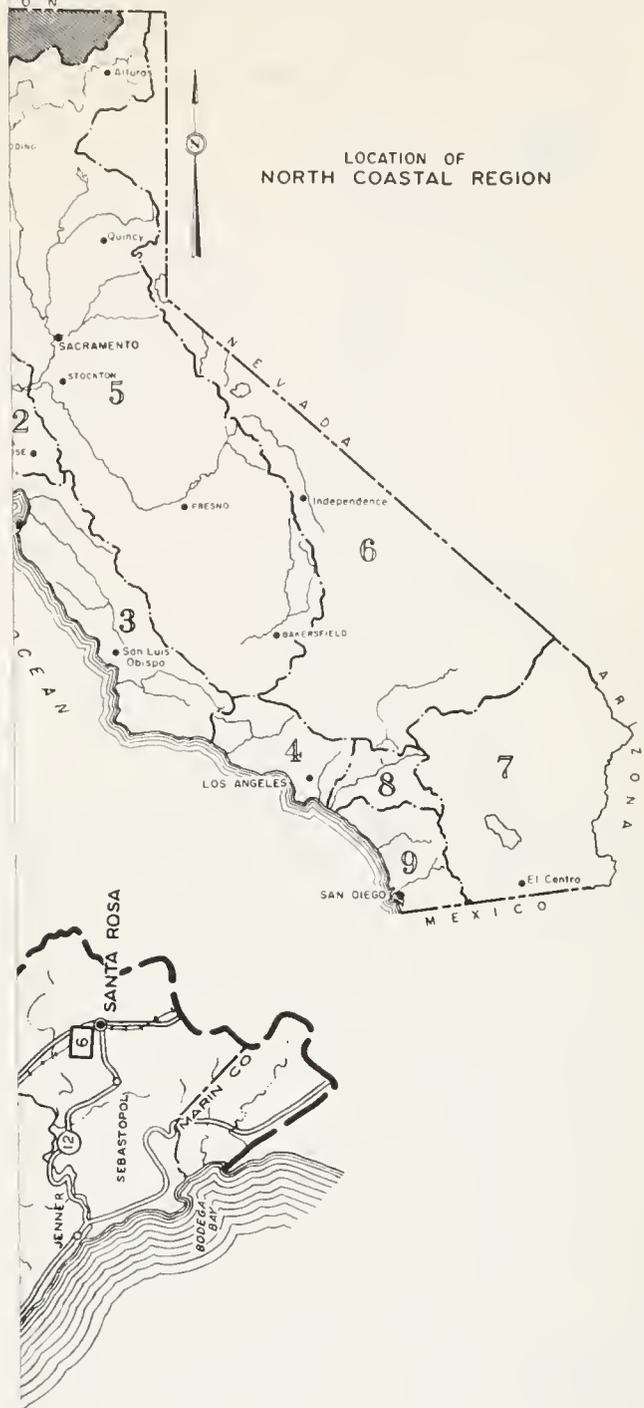
c. Filtrate
d. Sludge
e. Alpha
f. Beta

TABLE D-9 (continued)
 SANITARY AND RADIOLOGICAL ANALYSES OF WASTE WATERS

SAN DIEGO REGION (NO. 9)

Number	Agency	Date sampled	Hours com- posited	Discharge in million gallons per day	Suspended solids (ppm)	Biochemical oxygen demand 5-day 20° C (ppm)	Ether soluble material (ppm)	Coliform (mpn/100ml)	Gross radioactivity ($\mu\text{uc/l}$)	Remarks
19	Palm City Sanitation District (continued)	6-21-60	Grab	1.0	62	20	12	23,000 20,000	9.2 + 1.9 ^f 8.7 + 1.8 ^d	
20	City of Imperial Beach	7-30-56	24	--	24	19	--	2,300,000 620,000 620,000	--	
		6-16-59	--	--	--	--	--	--	11.0 + 0.9 ^c 11.8 + 1.0 ^d 7.5 + 1.4 ^e 0 + 1.0 ^d	
21	International Boundary & Water Commission	6-20-60	Grab	0.7	75	83	72	7,000,000		
		8- 6-56	24	--	232	138	6	62,000,000 230,000 23,000	--	Sampled at Manhole #38
		7-16-58	24	--	143	176	46	--	0.0 + 0.30 ^e 13.8 + 4.2 ^f 7.2 + 2.4 ^e 21.2 + 0.9 ^d	
		6-22-60	Grab	4.6	213	213	34	230,000 7,000,000		

c. Filtrate
 d. Sludge
 e. Alpha
 f. Beta



STATE OF CALIFORNIA
 THE RESOURCES AGENCY OF CALIFORNIA
 DEPARTMENT OF WATER RESOURCES
 DIVISION OF RESOURCES PLANNING
 RECLAMATION OF WATER FROM WASTES
 JULY 1, 1955 - JUNE 30, 1962

**WASTE WATER DISCHARGES
 NORTH COASTAL REGION (NO.1)
 1962**





WASTE DISCHARGING AGENCIES

- 1. CITY OF ARCATA
- 2. CITY OF EUREKA
- 3. CITY OF WILLITS
- 4. CITY OF UKIAH
- 5. MENDOCINO STATE HOSPITAL
- 6. CITY OF SANTA ROSA

LEGEND

- 6 WASTE TREATMENT AND DISPOSAL FACILITY
- ↘ EFFLUENT OUTFALL

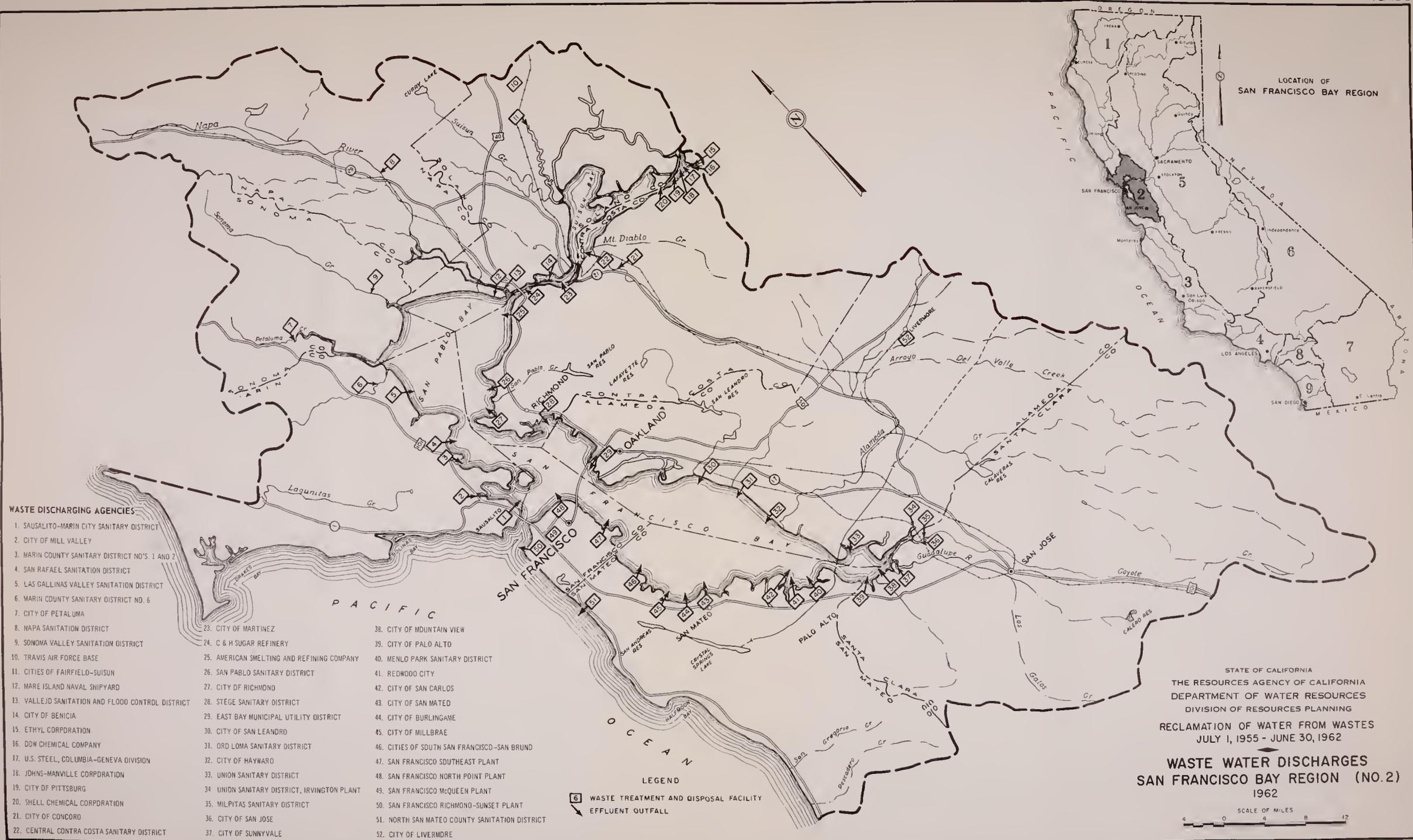
LOCATION OF NORTH COASTAL REGION

STATE OF CALIFORNIA
 THE RESOURCE AGENCY OF CALIFORNIA
 DEPARTMENT OF WATER RESOURCES
 DIVISION OF RESOURCES PLANNING
 RECLAMATION OF WATER FROM WASTES
 JULY 1, 1955 - JUNE 30, 1962

**WASTE WATER DISCHARGES
 NORTH COASTAL REGION (NO.1)
 1962**

SCALE OF MILES
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LOCATION OF SAN FRANCISCO BAY REGION



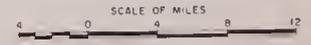
WASTE DISCHARGING AGENCIES

- 1. SAUSALITO-MARIN CITY SANITARY DISTRICT
- 2. CITY OF MILL VALLEY
- 3. MARIN COUNTY SANITARY DISTRICT NO'S. 1 AND 2
- 4. SAN RAFAEL SANITATION DISTRICT
- 5. LAS GALLINAS VALLEY SANITATION DISTRICT
- 6. MARIN COUNTY SANITARY DISTRICT NO. 6
- 7. CITY OF PETALUMA
- 8. NAPA SANITATION DISTRICT
- 9. SONOMA VALLEY SANITATION DISTRICT
- 10. TRAVIS AIR FORCE BASE
- 11. CITIES OF FAIRFIELD-SUISUN
- 12. MARE ISLAND NAVAL SHIPYARD
- 13. VALLEJO SANITATION AND FLOOD CONTROL DISTRICT
- 14. CITY OF BENICIA
- 15. ETHYL CORPORATION
- 16. DDW CHEMICAL COMPANY
- 17. U.S. STEEL, COLUMBIA-GENEVA DIVISION
- 18. JOHNS-MANVILLE CORPORATION
- 19. CITY OF PITTSBURG
- 20. SHELL CHEMICAL CORPORATION
- 21. CITY OF CONCORD
- 22. CENTRAL CONTRA COSTA SANITARY DISTRICT
- 23. CITY OF MARTINEZ
- 24. C & H SUGAR REFINERY
- 25. AMERICAN SMELTING AND REFINING COMPANY
- 26. SAN PABLO SANITARY DISTRICT
- 27. CITY OF RICHMOND
- 28. STEGE SANITARY DISTRICT
- 29. EAST BAY MUNICIPAL UTILITY DISTRICT
- 30. CITY OF SAN LEANDRO
- 31. ORD LOMA SANITARY DISTRICT
- 32. CITY OF HAYWARD
- 33. UNION SANITARY DISTRICT
- 34. UNION SANITARY DISTRICT, IRVINGTON PLANT
- 35. MILPITAS SANITARY DISTRICT
- 36. CITY OF SAN JOSE
- 37. CITY OF SUNNYVALE
- 38. CITY OF MOUNTAIN VIEW
- 39. CITY OF PALO ALTO
- 40. MENLO PARK SANITARY DISTRICT
- 41. REDWOOD CITY
- 42. CITY OF SAN CARLOS
- 43. CITY OF SAN MATEO
- 44. CITY OF BURLINGAME
- 45. CITY OF MILLBRAE
- 46. CITIES OF SOUTH SAN FRANCISCO-SAN BRUNO
- 47. SAN FRANCISCO SOUTHEAST PLANT
- 48. SAN FRANCISCO NORTH POINT PLANT
- 49. SAN FRANCISCO MCQUEEN PLANT
- 50. SAN FRANCISCO RICHMOND-SUNSET PLANT
- 51. NORTH SAN MATEO COUNTY SANITATION DISTRICT
- 52. CITY OF LIVERMORE

6 WASTE TREATMENT AND DISPOSAL FACILITY
 ↘ EFFLUENT OUTFALL

STATE OF CALIFORNIA
 THE RESOURCES AGENCY OF CALIFORNIA
 DEPARTMENT OF WATER RESOURCES
 DIVISION OF RESOURCES PLANNING
 RECLAMATION OF WATER FROM WASTES
 JULY 1, 1955 - JUNE 30, 1962

**WASTE WATER DISCHARGES
 SAN FRANCISCO BAY REGION (NO. 2)
 1962**





WASTE DISCHARGING AGENCIES

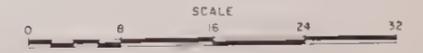
- 1. CITY OF SANTA CRUZ
- 2. CITY OF WATSONVILLE
- 3. FORT ORD
- 4. SEASIDE COUNTY SANITATION DISTRICT
- 5. CITY OF MONTEREY
- 6. CITY OF PACIFIC GROVE
- 7. CARMEL SANITARY DISTRICT
- 8. CITY OF SALINAS
- 9. ALISAL SANITARY DISTRICT
- 10. SOLEDAD STATE PRISON
- 11. CITY OF PASO ROBLES
- 12. MORRO BAY-CAYUCOS SANITARY DISTRICT
- 13. CITY OF SAN LUIS OBISPO
- 14. VANDENBERG AIR FORCE BASE
- 15. CITY OF SANTA MARIA
- 16. CITY OF LOMPOC
- 17. GOLETA SANITARY DISTRICT
- 18. CITY OF SANTA BARBARA
- 19. CARPENTERIA SANITARY DISTRICT

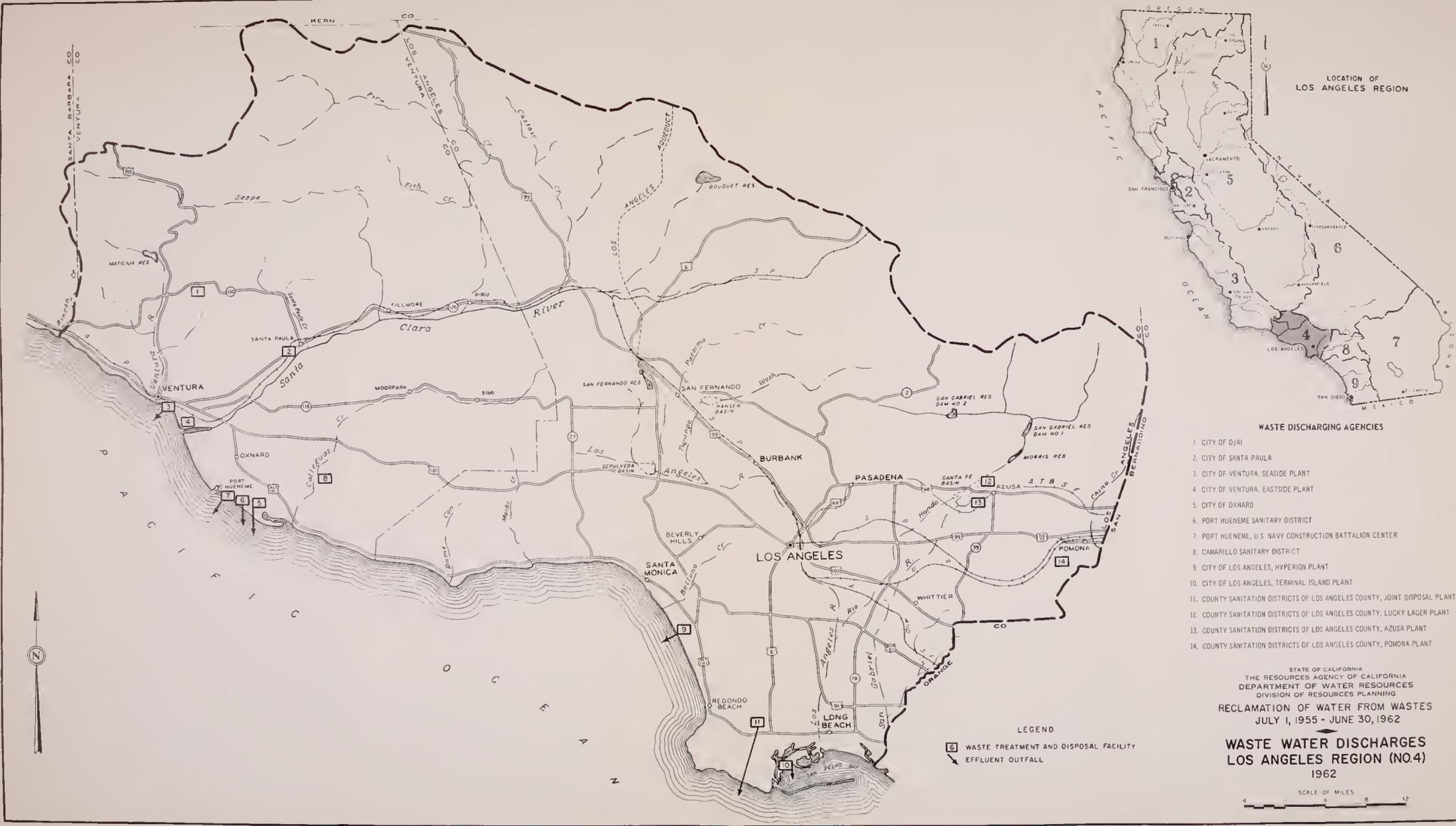
LEGEND

- 6 WASTE TREATMENT AND DISPOSAL FACILITY
- ↘ EFFLUENT OUTFALL

STATE OF CALIFORNIA
 THE RESOURCE AGENCY OF CALIFORNIA
 DEPARTMENT OF WATER RESOURCES
 DIVISION OF RESOURCES PLANNING
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WASTE WATER DISCHARGES
 CENTRAL COASTAL REGION (NO.3)
 1962





LOCATION OF LOS ANGELES REGION

WASTE DISCHARGING AGENCIES

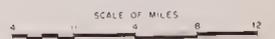
- 1 CITY OF OJAI
- 2 CITY OF SANTA PAULA
- 3 CITY OF VENTURA, SEASIDE PLANT
- 4 CITY OF VENTURA, EASTSIDE PLANT
- 5 CITY OF OXNARD
- 6 PORT HUENEME SANITARY DISTRICT
- 7 PORT HUENEME, U.S. NAVY CONSTRUCTION BATTALION CENTER
- 8 CANARILLO SANITARY DISTRICT
- 9 CITY OF LOS ANGELES, HYPERION PLANT
- 10 CITY OF LOS ANGELES, TERMINAL ISLAND PLANT
- 11 COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY, JOINT DISPOSAL PLANT
- 12 COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY, LUCKY LAGER PLANT
- 13 COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY, AZUSA PLANT
- 14 COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY, POMONA PLANT

LEGEND

- 5 WASTE TREATMENT AND DISPOSAL FACILITY
- 6 EFFLUENT OUTFALL

STATE OF CALIFORNIA
 THE RESOURCES AGENCY OF CALIFORNIA
 DEPARTMENT OF WATER RESOURCES
 DIVISION OF RESOURCES PLANNING
 RECLAMATION OF WATER FROM WASTES
 JULY 1, 1955 - JUNE 30, 1962

**WASTE WATER DISCHARGES
 LOS ANGELES REGION (NO.4)
 1962**



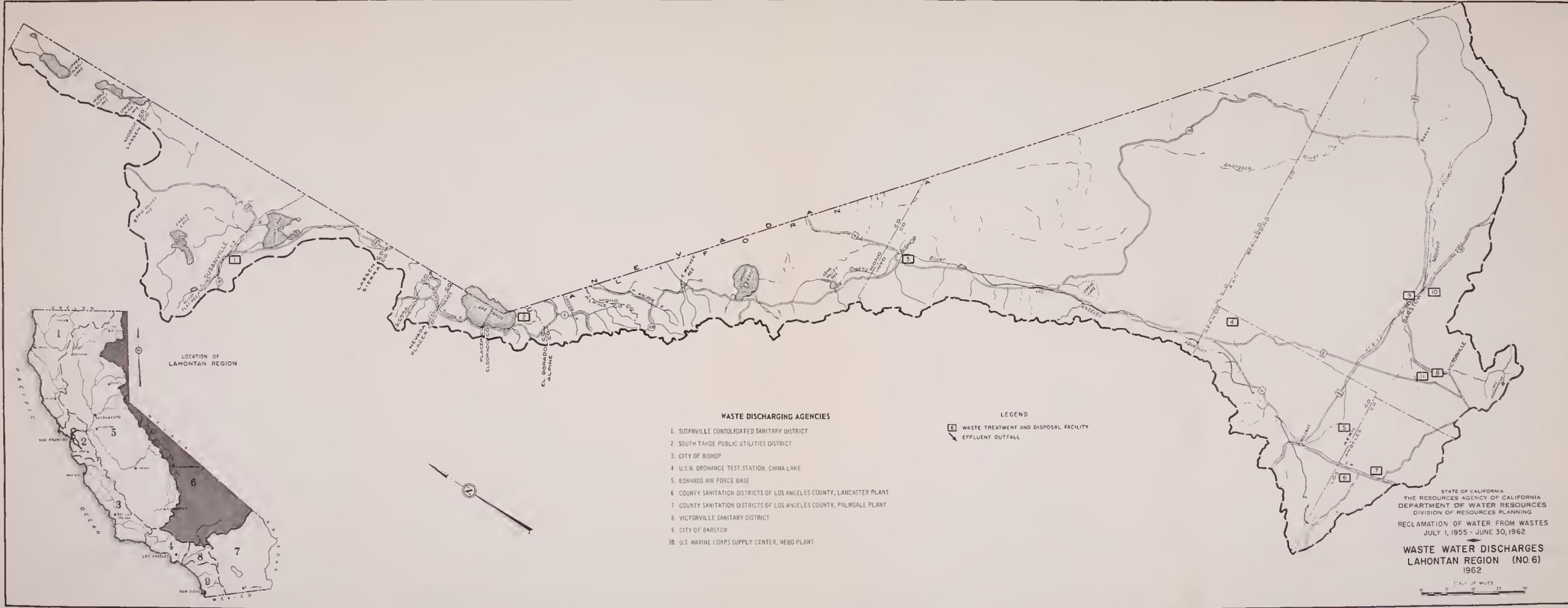


LEGEND
 [Symbol] WASTE TREATMENT AND DISPOSAL FACILITY
 [Symbol] EFFLUENT OUTFALL

WASTE DISCHARGING AGENCIES

- | | | | |
|---|---|-------------------------------------|------------------|
| 1. CITY OF PEELING | 11. CITY OF DAY | 21. CITY OF Lodi | 31. CITY OF Yuba |
| 2. CITY OF RED BLUFF | 12. BELLEVILLE SACRAMENTO SANITARY DISTRICT | 22. NORTH WILKES (SHELDON W. L. L.) | 32. CITY OF YUBA |
| 3. CITY OF CHICO | 13. CITY OF SACRAMENTO | 23. CITY OF YUBA NORTH PLANT | 33. CITY OF YUBA |
| 4. CITY OF GRIDLEY | 14. PARABAY STATES | 24. CITY OF YUBA SOUTH PLANT | 34. CITY OF YUBA |
| 5. CITY OF GRIDLEY | 15. SACRAMENTO COUNTY SANITATION DISTRICT NO. 4 | 25. CITY OF YUBA | 35. CITY OF YUBA |
| 6. HUBA CITY | 16. PARACHO (SACRAMENTO MAINTENANCE DISTRICT) | 26. CITY OF YUBA | 36. CITY OF YUBA |
| 7. CITY OF MARIETTA | 17. WATKINS AIR FORCE BASE | 27. CITY OF YUBA | 37. CITY OF YUBA |
| 8. CITY OF GRASS VALLEY | 18. CITY OF VACAVILLE (BROWN STREET PLANT) | 28. CITY OF YUBA | 38. CITY OF YUBA |
| 9. CITY OF AUBURN | 19. CITY OF VACAVILLE (EASTLEY PLANT) | 29. CITY OF YUBA | 39. CITY OF YUBA |
| 10. CITY OF GRIDLEY | 20. FIBROBOARD PRODUCTS AND PAPER DIVISION | 30. CITY OF YUBA | 40. CITY OF YUBA |
| 11. CITY OF GRIDLEY | 21. CITY OF GRIDLEY | 41. CITY OF YUBA | 42. CITY OF YUBA |
| 12. SACRAMENTO COUNTY SANITATION DISTRICT NO. 1 | 22. CITY OF GRIDLEY | 43. CITY OF YUBA | 44. CITY OF YUBA |
| 13. McCLELLAN AIR FORCE BASE | 23. CITY OF GRIDLEY | 45. CITY OF YUBA | 46. CITY OF YUBA |
| 14. CITY OF GRIDLEY | 24. CITY OF GRIDLEY | 47. CITY OF YUBA | 48. CITY OF YUBA |

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**WASTE WATER DISCHARGES
 CENTRAL VALLEY REGION (NO. 5)
 1962**



LOCATION OF LAHONTAN REGION

WASTE DISCHARGING AGENCIES

- 1. SUSANVILLE CONSOLIDATED SANITARY DISTRICT
- 2. SOUTH TAHOE PUBLIC UTILITIES DISTRICT
- 3. CITY OF BISHOP
- 4. U.S.N. DRONANCE TEST STATION, CHINA LAKE
- 5. EDWARDS AIR FORCE BASE
- 6. COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY, LANCASTER PLANT
- 7. COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY, PALMDALE PLANT
- 8. VICTORVILLE SANITARY DISTRICT
- 9. CITY OF BARSTOW
- 10. U.S. MARINE CORPS SUPPLY CENTER, HEBO PLANT

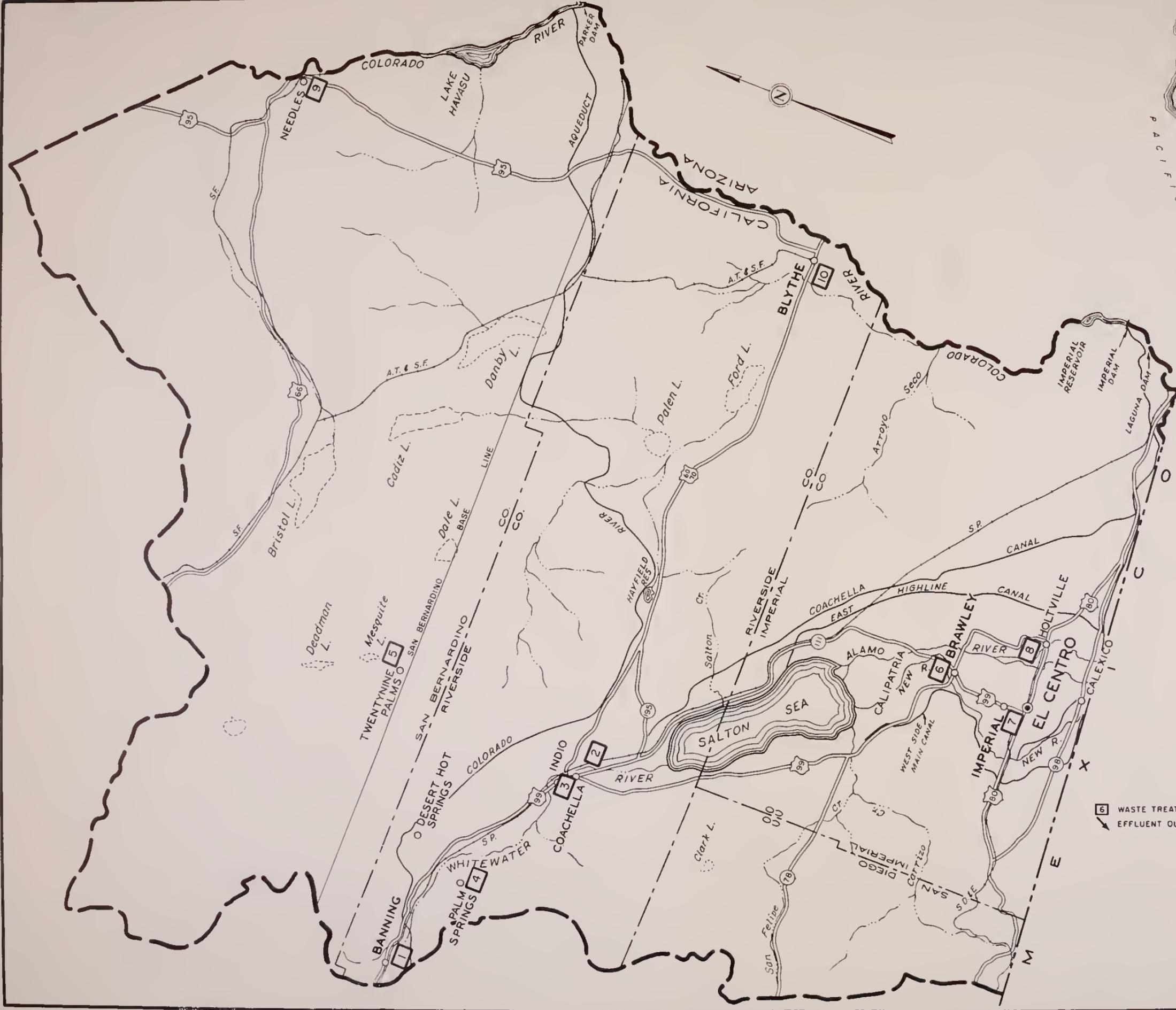
LEGEND

- Ⓜ WASTE TREATMENT AND DISPOSAL FACILITY
- ⤵ EFFLUENT OUTFALL

STATE OF CALIFORNIA
 THE RESOURCES AGENCY OF CALIFORNIA
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 RECLAMATION OF WATER FROM WASTES
 JULY 1, 1955 - JUNE 30, 1962

WASTE WATER DISCHARGES
 LAHONTAN REGION (NO. 6)
 1962





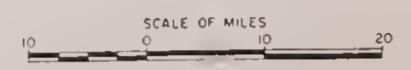
- WASTE DISCHARGING AGENCIES**
1. CITY OF BANNING
 2. COACHELLA SANITARY DISTRICT
 3. INDIO SANITARY DISTRICT
 4. CITY OF PALM SPRINGS
 5. U.S. MARINE CORPS TRAINING CENTER, TWENTYNINE PALMS
 6. CITY OF BRAWLEY
 7. CITY OF EL CENTRO
 8. CITY OF HOLTVILLE
 9. CITY OF NEEDLES
 10. CITY OF BLYTHE

- LEGEND**
- WASTE TREATMENT AND DISPOSAL FACILITY
 - EFFLUENT OUTFALL

STATE OF CALIFORNIA
 THE RESOURCES AGENCY OF CALIFORNIA
 DEPARTMENT OF WATER RESOURCES
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RECLAMATION OF WATER FROM WASTES
 JULY 1, 1955 - JUNE 30, 1962

**WASTE WATER DISCHARGES
 COLORADO RIVER BASIN REGION (NO. 7)
 1962**





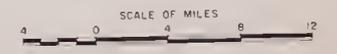
LEGEND
 WASTE TREATMENT AND DISPOSAL FACILITY
 EFFLUENT OUTFALL

WASTE DISCHARGING AGENCIES

- | | |
|--|---|
| 1. CITY OF CHINO, PLANT NO. 1 | 11. COUNTY SANITATION DISTRICTS OF ORANGE COUNTY, PLANT NO. 2 |
| 2. CITY OF CHINO, PLANT NO. 2 | 12. CITIES OF ONTARIO AND UPLAND |
| 3. CITY OF COLTON | 13. CITY OF REDLANDS |
| 4. CITY OF CORONA | 14. CITY OF RIALTO |
| 5. U.S. MARINE CORPS AIR STATION, EL TORO | 15. CITY OF RIVERSIDE, PLANT NO. 1 |
| 6. CITY OF FONTANA | 16. CITY OF RIVERSIDE, PLANT NO. 2 |
| 7. KAISER STEEL CORPORATION, FONTANA | 17. CITY OF SAN BERNARDINO, PLANT NO. 1 |
| 8. MARCH AIR FORCE BASE, MAIN PLANT | 18. CITY OF SAN BERNARDINO, PLANT NO. 2 |
| 9. MARCH AIR FORCE BASE, WEST PLANT | 19. CITY OF SEAL BEACH |
| 10. COUNTY SANITATION DISTRICTS OF ORANGE COUNTY PLANT NO. 1 | 20. TALBERT WATER DISTRICT |

STATE OF CALIFORNIA
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**WASTE WATER DISCHARGES
 SANTA ANA REGION (NO. 8)
 1962**





WASTE DISCHARGING AGENCIES

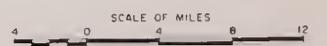
- 1. CITY OF LAGUNA BEACH
- 2. CITY OF SAN CLEMENTE
- 3. CAMP JOSEPH H. PENOLETON, PLANT NO. 1
- 4. CAMP JOSEPH H. PENOLETON, PLANT NO. 2
- 5. CAMP JOSEPH H. PENOLETON, PLANT NO. 3
- 6. CITY OF OCEANSIDE
- 7. CITY OF CARLSBAD
- 8. VISTA SANITATION DISTRICT
- 9. CITY OF ESCONIDO, PLANT NO. 1
- 10. CITY OF ESCONIDO, PLANT NO. 2
- 11. SANTEE COUNTY WATER DISTRICT
- 12. CITY OF EL CAJON
- 13. CITY OF CORONADO, B ST. OUTFALL
- 14. CITY OF CORONADO, K ST. OUTFALL
- 15. CITY OF SAN DIEGO
- 16. SPRING VALLEY SANITATION DISTRICT
- 17. CITY OF CHULA VISTA (G ST. PLANT)
- 18. CITY OF CHULA VISTA (J ST. PLANT)
- 19. PALM CITY SANITATION DISTRICT
- 20. CITY OF IMPERIAL BEACH
- 21. INTERNATIONAL BOUNDARY AND WATER COMMISSION

LEGEND

- 6 WASTE TREATMENT AND DISPOSAL FACILITY
- ↙ EFFLUENT OUTFALL

STATE OF CALIFORNIA
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 DEPARTMENT OF WATER RESOURCES
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 RECLAMATION OF WATER FROM WASTES
 JULY 1, 1955 - JUNE 30, 1962

**WASTE WATER DISCHARGES
 SAN DIEGO REGION (NO. 9)
 1962**



UNIVERSITY OF CALIFORNIA, DAVIS



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