

**CATALOG OF ACTIVITIES AND
INFORMATION PERTAINING TO
GROUND WATER IN CALIFORNIA**

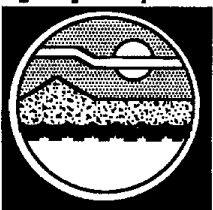
PART B

**INVENTORY OF INDIVIDUAL
GROUND WATER ACTIVITIES
ORGANIZED BY PUBLIC AGENCY**

90-14S/A

December 1990

**WATER RESOURCES CONTROL BOARD
STATE OF CALIFORNIA**





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OFFICE OF ENVIRONMENTAL PROTECTION
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Catalog Of Activities And Information Pertaining To Ground Water In California

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PERTAINING TO GROUND WATER
IN CALIFORNIA**

PART B

**INVENTORY OF INDIVIDUAL
GROUND WATER ACTIVITIES
ORGANIZED BY PUBLIC AGENCY**

90-14S/A

December 1990

**Prepared By:
John E. Sarna, D. Env.
Division of Standards and Assessment**

**Water Resources Control Board
State of California**

Alameda County Water District

Street address of Organization: 43885 S. Grimmer Boulevard; Fremont, CA 94538
 Mailing address of Organization: P.O. Box 5110; Fremont, CA 94538

PROGRAM: Alameda County Water District Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Cities of Newark, Fremont, Union City/S. Alameda County
 THIS ACTIVITY STARTED: 01/01/1960 and CONTINUING as of: 10/12/1988 (dates may be approximate).
 KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Gill Duerig, Groundwater Resources Supervisor
 PHONE: (415) 659-1970 This summary information was LAST VERIFIED on: 10/12/1988

PROGRAM: Alameda County Water District - Niles Cone Basin Management Program

The Niles Cone Basin Management Program assures adequate water supply and water quality within the basin, and prevents future problems with saltwater intrusion.

Water wells throughout the basin are monitored each spring and fall for water levels and chlorides. Weekly spot checks and pump tests are also performed on some wells. Data from this monitoring/testing, and from three associated activities (the Replenishment Assessment Program, the Salinity Barrier Project and the Aquifer Reclamation Project), are used to determine the amount of groundwater recharge necessary to achieve the goals of the Basin Management Program. Water is purchased by the District for groundwater recharge, as needed.

The Basin Management Program produces summary reports on the program and associated activities.

GEOGRAPHIC COVERAGE: Cities of Newark, Fremont, Union City and portions of Hayward
 THIS ACTIVITY STARTED: 06/01/1967 and CONTINUING as of: 10/12/1988 (dates may be approximate).
 KEYWORDS: administrative support, allocates funds, ground water cleanup, ground water modeling, ground water monitoring, pertinent reports available, planning, technical support, basin management, saltwater intrusion, pump tests, supply, quality, recharge, salinity barrier, replenishment assessment, aquifer reclamation.

FOR DETAILS, CONTACT: Gill Duerig, Groundwater Resources Supervisor
 PHONE: (415) 659-1970 This summary information was LAST VERIFIED on: 10/12/1988

PROGRAM: Alameda County Water District Replenishment Assessment Program

The Replenishment Assessment Program allows the Alameda County Water District (District) to determine the mass balance of the groundwater basin. The District uses this information to prevent future problems with saltwater intrusion through recharge in the Niles Cone Basin Management Program and their Salinity Barrier Project. Data on quantity of water used (metered for billing purposes), types of water use, use of wells as alternative sources, rainfall and recharge potential are evaluated in this program.

GEOGRAPHIC COVERAGE: Cities of Newark, Fremont, Union City/S. Alameda County
 THIS ACTIVITY STARTED: 01/01/1974 and CONTINUING as of: 10/12/1988 (dates may be approximate).
 KEYWORDS: administrative support, enforcement, site inspection, technical support, replenishment, water use, recharge, mass balance, metering, saltwater intrusion.

FOR DETAILS, CONTACT: Gill Duerig, Groundwater Resources Supervisor
 PHONE: (415) 659-1970 This summary information was LAST VERIFIED on: 10/12/1988

PROGRAM: Alameda County Water District Groundwater Protection Program

Alameda County Water District's Ground Water Protection Program develops guidelines for hazardous materials storage for the cities of Fremont and Union City and other cities that adopted their Hazardous Materials Ordinances before January 1, 1984. The purpose of the program is to protect and preserve the drinking water supply for present and future use.

GEOGRAPHIC COVERAGE: Alameda County
 THIS ACTIVITY STARTED: 01/01/1984 and CONTINUING as of: 04/12/1989 (dates may be approximate).
 KEYWORDS: permitting, pertinent reports available, hazardous materials storage, underground tanks.

FOR DETAILS, CONTACT: Gill Duerig, Groundwater Resources Supervisor
 PHONE: (415) 659-1970 This summary information was LAST VERIFIED on: 04/12/1989

CONTINUED FROM: Alameda County Water District

PROGRAM: South Alameda County Water Well Permitting and Leaking Underground Fuel Tank Program (LUFT)

The Alameda County Water District (District) performs three functions under the city ordinances noted below: regulation of all well activities, assignment of state well numbers and operation of the Leaking Underground Fuel Tank Program.

Regulations govern the siting, drilling and construction of all new wells, the deepening and re-perforating of existing wells, and the abandonment and destruction of old wells. The District can request chemical monitoring of wells, as needed. Regulations are enforced through a permit program and apply to any drilled or driven holes, including monitoring wells, exploratory borings and soil vapor probes. A permit application includes a complete outline of the proposed work (protocol, site plans and construction details), as well as any geotechnical and chemical monitoring data.

The District is the lead agency on assigning state well numbers to new wells in the area. Well Drillers' Reports (DWR-188) are filed with the District prior to well number assignment.

In May, 1988, the Alameda County Water District was designated, by the Regional Water Quality Control Board (RWQCB), as the lead technical agency for the Leaking Underground Fuel Tank (LUFT) Program within the District's jurisdiction. Leaking tanks are identified by area Fire Departments; the District oversees the hydrogeological and risk assessments, evaluates the need for remediation and must approve the remediation system design. Monitoring systems for new underground tanks must also be approved by the District prior to issuance of a permit by the regulating agency.

References: California Water Code Sections 231, 13800, DWR Bulletin 74-81 (Water Well Standards: State of California); Model Well Ordinance Act (AB3127, Arias, 1986); California Water Code Sections 13701, 13712, 13800, 13801; City of Fremont Ordinance 950, as amended; City of Newark Ordinance 136; City of Union City Ordinance 109-73.

GEOGRAPHIC COVERAGE: Cities of Newark, Fremont, Union City/S. Alameda County

THIS ACTIVITY STARTED: 01/01/1962 and CONTINUING as of: 10/12/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, permitting, site investigation, technical support, water wells, construction, abandonment, destruction, underground tanks, leaking tanks, luft, state well numbers, vapor probes, exploratory borings.

FOR DETAILS, CONTACT: Gill Duerig, Groundwater Resources Supervisor

PHONE: (415) 659-1970

This summary information was LAST VERIFIED on: 10/12/1988

Alameda County Water District; Engineering Department

Street address of Organization: 43885 South Grimmer Boulevard; Fremont, CA 94538

Mailing address of Organization: P.O. Box 5110; Fremont, CA 94538

PROJECT: Alameda County Water District Aquifer Reclamation Project

The Aquifer Reclamation Project restores water quality by decreasing the concentration of chlorides in the groundwater. Previously intruded saltwater is removed by 6-8 aquifer restoration wells completed at various depths. Pockets of inland saltwater are identified by the monitoring for chlorides done in the Niles Cone Basin Management Program. Operation of the restoration wells is dependent on the current water level, availability of recharge and the chloride content of water in the vicinity of each well.

GEOGRAPHIC COVERAGE: Cities of Newark, Fremont, Union City/S. Alameda County

PART OF A PROGRAM titled: Alameda County Water District - Niles Cone Basin Management Program

THIS ACTIVITY STARTED: 01/01/1975 and CONTINUING as of: 10/12/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, aquifer reclamation, saltwater intrusion, water quality, restoration wells.

FOR DETAILS, CONTACT: Hugh Poustinchi, Associate Engineer

PHONE: (415) 659-1970

This summary information was LAST VERIFIED on: 10/12/1988

PROJECT: Alameda County Water District Salinity Barrier Project

The Salinity Barrier Project allows overdraft of the groundwater basin, without saltwater intrusion, during drought years. Five permanent extraction barrier wells have already been installed. Approximately nine additional wells will eventually be installed based on a computer simulation of groundwater flow in the Niles Cone Basin. The computer simulation is being developed as a part of the Niles Cone Basin Management Program.

GEOGRAPHIC COVERAGE: Cities of Newark, Fremont, Union City/S. Alameda County

PART OF A PROGRAM titled: Alameda County Water District - Niles Cone Basin Management Program

THIS ACTIVITY STARTED: 01/01/1970 and CONTINUING as of: 10/12/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, saltwater intrusion, barrier wells, overdraft, drought, extraction barrier.

FOR DETAILS, CONTACT: Kurt Ireland, Assistant Engineer, Design Division

PHONE: (415) 659-1970

This summary information was LAST VERIFIED on: 10/12/1988

Alameda County; Health Care Services Agency; Department of Environmental Health

Street address of Organization: 470 27th Street, 3rd Floor, Oakland, CA 94612

PROGRAM: Alameda County Hazardous Materials Spills

The county prepares an area-wide emergency response plan to hazardous materials spills as outlined by the Office of Emergency Services. The emergency response plan outlines the responsibilities of the agencies involved. Events are coordinated with the appropriate incident commander, resources necessary to handle the spill are gathered, the spill is isolated and the media are informed. Appropriate people are called in to assess the extent of needed cleanup procedures.

All individual businesses that handle hazardous materials must submit to the county their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

A city may assume the responsibility of preparing an emergency response plan within its jurisdiction by enacting an ordinance. If a city assumes this responsibility, it must coordinate its activities with the county.

Reference: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: Alameda County, excl. Berkeley

THIS ACTIVITY STARTED: 10/23/1984 and CONTINUING as of: 07/22/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, ground water monitoring, pertinent reports available, planning, site inspection, site investigation, technical support, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Rafat Shahid, Chief, Division of Hazardous Materials

PHONE: (415) 271-4320

This summary information was LAST VERIFIED on: 07/22/1988

PROGRAM: Alameda County Land Use Planning Program

The county's Hazardous Materials Waste Database, created as a part of the Hazardous Materials Spills Program, is used to assist in land use planning within the county. Decisions on zoning, siting, EIR preparation and planning are made after the treatment, storage, disposal and transport of hazardous materials in the area have been analyzed.

GEOGRAPHIC COVERAGE: Alameda County, excl. Berkeley

THIS ACTIVITY STARTED: 10/23/1984 and CONTINUING as of: 07/22/1988 (dates may be approximate).

KEYWORDS: administrative support, permitting, planning, technical support, land use planning, zoning, siting, EIR, hazardous waste, treatment, storage, disposal, transport.

FOR DETAILS, CONTACT: Rafat Shahid, Chief, Division of Hazardous Materials

PHONE: (415) 271-4320

This summary information was LAST VERIFIED on: 07/22/1988

PROGRAM: Alameda County Regulation of On-Site Sewage Disposal Systems

The installation and maintenance of individual sewage disposal systems consisting of septic tanks and leach fields are regulated by a permit program. This program conducts percolation tests to determine the suitability of the leach field for treating wastes, checks for setback before issuing building permits, and ensures that there is good separation from water supply wells.

GEOGRAPHIC COVERAGE: Alameda County, excl. Berkeley

THIS ACTIVITY STARTED: 01/01/1957 and CONTINUING as of: 07/22/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, permitting, planning, site inspection, site investigation, technical support, septic tanks, sewage, leach fields, percolation tests, wells.

FOR DETAILS, CONTACT: Robert Castell, Chief, Environmental Health Operations

PHONE: (415) 271-4330

This summary information was LAST VERIFIED on: 07/22/1988

PROGRAM: Alameda County Sanitary Landfill Ground Water Monitoring Program

The ground water contamination detection program consists of regular sampling from a number of monitoring wells located in the vicinity of the landfill. The samples are obtained from the first encountered ground water and are tested monthly for pH, and specific conductance. The depth to ground water is also noted. Quarterly, the water samples are tested for chemical oxygen demand, chloride, iron, nitrate, total dissolved solids and total hardness. The sampling and analysis are performed by the landfill operators; all of the landfills in the county are privately owned.

The county Department of Environmental Health receives the results of the monitoring program which are also stored by the Regional Water Quality Control Board in the 'Waste Discharger Monitoring Files'.

Reference: The California Code of Regulations, Title 23, Chapter 3, Subchapter 15, and the California Water Code, Section 13273 (Solid Waste Assessment Test/SWAT/Calderon).

GEOGRAPHIC COVERAGE: Alameda County, excl. Berkeley

THIS ACTIVITY STARTED: 01/01/1972 and CONTINUING as of: 07/22/1988 (dates may be approximate).

KEYWORDS: administrative support, enforcement, permitting, planning, site inspection, site investigation, technical support, landfill, well, ph, conductance, COD, chloride, iron, nitrate, TDS, total hardness, Subchapter 15, SWAT.

CONTINUED FROM: Alameda County; Health Care Services Agency; Department of Environmental Health
PROGRAM: Alameda County Sanitary Landfill Ground Water Monitoring Program

FOR DETAILS, CONTACT: Richard Pantages, Solid Waste Program Manager
PHONE: (415) 271-3403 This summary information was LAST VERIFIED on: 07/22/1988

PROGRAM: Alameda County Small Water Supply Systems Monitoring Program

Community water systems consisting of less than 200 service connections are regularly sampled at random distribution points for chlorine residuals and quarterly for total coliform concentration. Individual community supply wells are sampled every 3 years for minerals and organic compounds. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Alameda County, excl. Berkeley

THIS ACTIVITY STARTED: 01/01/1957 and CONTINUING as of: 07/22/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, ground water monitoring, permitting, planning, site inspection, site investigation, technical support, water supply, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Robert Castell, Chief, Environmental Health Operations
PHONE: (415) 271-4330 This summary information was LAST VERIFIED on: 07/22/1988

PROGRAM: Alameda County Underground Tanks Program

Regulations apply to the design, construction, closure and abandonment of underground storage tanks. These regulations also apply to the monitoring and drainage systems installed at the tank locations.

Regulations are enforced through a permit program. Permits for underground tanks are renewed, modified or terminated based on an inspection of the tank and monitoring system. The permit is valid for 5 years, whereas the underground tank and the monitoring records are inspected every year.

The Department of Environmental Health administers a Hazardous Waste Mitigation Account for the county which is replenished by fines and judgments against hazardous waste violators.

Reference: The California Code of Regulations, Title 23, Chapter 3, Subchapter 16.

GEOGRAPHIC COVERAGE: Alameda County, excl. 7 cities

THIS ACTIVITY STARTED: 10/23/1988 and CONTINUING as of: 07/22/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, ground water modeling, ground water monitoring, permitting, planning, site inspection, site investigation, technical support, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Rafat Shahid, Chief, Division of Hazardous Materials
PHONE: (415) 271-4320 This summary information was LAST VERIFIED on: 07/22/1988

Alameda County; Planning Department

Street address of Organization: 399 Elmhurst Street, Room 312; Hayward, CA 94544

PROGRAM: Alameda County Surface Mining Permit Program

Surface mining is regulated by a permit program in Alameda County run by the Planning Department. The Department prepares reclamation plans to set the policies and conditions which serve as the basis for approval or denial of each permit application. A groundwater protection program may be required as a condition of approval if the application study indicates a need for such a program.

GEOGRAPHIC COVERAGE: Unincorporated areas of Alameda County

THIS ACTIVITY STARTED: 08/03/1977 and CONTINUING as of: 08/15/1988 (dates may be approximate).

KEYWORDS: administrative support, enforcement, permitting, planning, site inspection, site investigation, technical support, surface mining, reclamation, conditions, groundwater protection program.

FOR DETAILS, CONTACT: Bill Fraley, Director
PHONE: (415) 670-5400 This summary information was LAST VERIFIED on: 08/15/1988

PROJECT: Proposed Expansion of the East Alameda County (Vasco Road) Sanitary Landfill

The county is seeking to expand the Vasco Road landfill to provide 10 years of additional capacity for demolition debris. To evaluate the feasibility of this project, the county is developing data on the groundwater resource in the vicinity of the landfill. Groundwater quality is determined based on testing of existing monitoring wells.

If the expansion is approved, the county Planning Department will issue the zoning permit and the county Environmental Health Department will issue the facilities permit.

CONTINUED FROM: Alameda County; Planning DepartmentPROJECT: Proposed Expansion of the East Alameda County (Vasco Road) Sanitary Landfill

GEOGRAPHIC COVERAGE: E. Alameda County

PART OF A PROGRAM titled: Alameda County Solid Waste Management Plan

THIS ACTIVITY STARTED: 10/01/1987 and CONTINUING as of: 08/03/1988 (dates may be approximate).

KEYWORDS: pertinent reports available, planning, site investigation, groundwater resource, landfill expansion, increase landfill capacity, demolition debris.

FOR DETAILS, CONTACT: Bill Fraley, Director

PHONE: (415) 670-5400

This summary information was LAST VERIFIED on: 08/03/1988

PROJECT: Revision of the Conditional Use Permit for Expansion of the Altamont Landfill in Alameda County

This project involves a review of the existing conditional use permit for the Altamont Landfill to allow for an expansion of the facility and redesign of the fill operation. If the current permit is revised by the county Planning Department to include an expansion, the county's Solid Waste Management Plan will require amendment. The facilities permit will be issued by the county Waste Management Authority.

Existing groundwater monitoring wells are sampled and analyzed for chemical, physical and biological constituents. Groundwater use, waste disposal practices, well construction, sources and properties of pollutants and soil properties are all evaluated to determine if the landfill expansion requested should be granted.

GEOGRAPHIC COVERAGE: Altamont Landfill Site/E. Alameda County

PART OF A PROGRAM titled: Alameda County Solid Waste Management Plan

THIS ACTIVITY STARTED: 01/01/1988 and CONTINUING as of: 08/15/1988 (dates may be approximate).

KEYWORDS: pertinent reports available, planning, site investigation, landfill expansion, fill operation, soils, water use, pollutants, waste disposal, well construction, solid waste management plan.

FOR DETAILS, CONTACT: Bill Fraley, Director

PHONE: (415) 670-5400

This summary information was LAST VERIFIED on: 08/15/1988

STUDY: Alameda County Surface Mining Permit Studies

Prior to issuance of a surface mining permit, the Alameda County Planning Department conducts a study at the planned mine site. Elements studied include: the use of water in processing aggregate, reuse of the processing water for recharge and management of groundwater levels in the surrounding area. Since groundwater is used for domestic supply in the county, the study examines the impact of different operating methods on the groundwater levels. The Planning Department has conducted a study and developed a single plan for the Livermore-Pleasanton area at the head of the Niles Cone.

GEOGRAPHIC COVERAGE: Unincorporated areas of Alameda County

PART OF A PROGRAM titled: Alameda County Surface Mining Permit Program

THIS ACTIVITY STARTED: 08/03/1977 and CONTINUING as of: 08/15/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, estimate impacts of ground water pollution, ground water management, ground water usage, hydrogeology, project planning, studies extent of ground water pollution, surface mining permits, use, processing aggregate, reuse, recharge, management, levels, domestic use.

FOR DETAILS, CONTACT: Bill Fraley, Director

PHONE: (415) 670-5400

This summary information was LAST VERIFIED on: 08/15/1988

Alameda County; Public Works Department

Street address of Organization: 399 Elmhurst Street; Hayward, CA 94544

PROGRAM: East Bay Plains Groundwater Levels Monitoring Program

In April 1962, the Alameda County Flood Control and Water Conservation District (Zone 7) began monitoring groundwater levels in the East Bay Plains area, north of Hayward. The Alameda County Public Works Department assumed responsibility for the monitoring beginning in April 1988. The Department monitors the static water surface elevation in 30 wells twice a year.

GEOGRAPHIC COVERAGE: East Bay Plains/N. Alameda County

THIS ACTIVITY STARTED: 04/01/1962 and CONTINUING as of: 08/04/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water levels, static water surface elevation.

FOR DETAILS, CONTACT: Kelvin Hickenbottom, Civil Engineer II

PHONE: (415) 670-5543

This summary information was LAST VERIFIED on: 08/04/1988

PROGRAM: East Bay Plains Seawater Intrusion Monitoring Program

In June 1962, the Alameda Flood Control and Water Conservation District (Zone 7) began monitoring groundwater in the East Bay Plains area, north of Hayward, for seawater intrusion. In August 1988, the Alameda County Public Works Department assumed responsibility for the monitoring. The area had experienced some problems with intrusion in the 1950s and early 1960s; the purpose of the monitoring is to alert the county should intrusion occur again.

CONTINUED FROM: Alameda County; Public Works Department
PROGRAM: East Bay Plains Seawater Intrusion Monitoring Program

The Department samples 10 wells (of a total of 20) each year according to a list produced by the state Department of Water Resources (DWR). DWR provides the sample bottles and conducts the analyses for general minerals, TDS, conductivity and pH.

GEOGRAPHIC COVERAGE: East Bay Plains/N. Alameda County
THIS ACTIVITY STARTED: 06/01/1962 and **CONTINUING** as of: 08/04/1988 (dates may be approximate).
KEYWORDS: ground water monitoring, seawater intrusion, general minerals, TDS, conductivity, ph.
FOR DETAILS, CONTACT: Kelvin Hickenbottom, Civil Engineer II
PHONE: (415) 670-5543 This summary information was **LAST VERIFIED** on: 08/04/1988

STUDY: Geohydrology and Groundwater - Quality Overview, East Bay Plains Area in Alameda County

Existing information on land-use characteristics, water quality, water use, geohydrology, and hazardous materials programs of the East Bay Plain area are provided to the California Regional Water Quality Control Board, San Francisco Bay Region. The Regional Board uses this information to update its Water Quality Control Plan (Basin Plan) and to set priorities for groundwater cleanup. The overview of the geohydrology and groundwater quality in the East Bay Plain area can also assist the Alameda County Flood Control and Water Conservation District in their groundwater management program.

GEOGRAPHIC COVERAGE: East Bay Plains/N. Alameda County
THIS ACTIVITY STARTED: 02/24/1987 and **ENDED:** 06/24/1988 (dates may be approximate).
KEYWORDS: ground water management, ground water usage, hydrogeology, pertinent reports available, management, land-use, water quality, geohydrology, cleanup, hazardous materials.
FOR DETAILS, CONTACT: Kelvin Hickenbottom, Civil Engineer II
PHONE: (415) 670-5543 This summary information was **LAST VERIFIED** on: 10/26/1988

STUDY: Groundwater in the San Leandro and San Lorenzo Alluvial Cones of the East Bay Plains of Alameda County

Previously existing water level and water quality data were used to evaluate:

- 1) the hydrogeologic characteristics and conditions of the San Leandro and San Leandro alluvial cones of the East Bay Plain groundwater basin; and
- 2) the adequacy of the current monitoring of the groundwater in detecting occurrences of groundwater contamination and salt water intrusion.

The water is pumped for irrigation and industrial use and is considered to be a viable source for a drinking water supply in the future.

GEOGRAPHIC COVERAGE: East Bay Plains/N. Alameda County
THIS ACTIVITY STARTED: 01/01/1984 and **ENDED:** 06/01/1984 (dates may be approximate).
KEYWORDS: estimate impacts of ground water pollution, ground water management, ground water usage, hydrogeology, pertinent reports available, studies extent of ground water pollution, studies sources of pollution, hydrogeologic characteristics and conditions, water levels, water quality, contamination, salt water intrusion.
FOR DETAILS, CONTACT: Kelvin Hickenbottom, Civil Engineer II
PHONE: (415) 670-5543 This summary information was **LAST VERIFIED** on: 10/26/1988

STUDY: Overview of Groundwater Management Practices of the East Bay Plains Area in Alameda County

Current groundwater management practices are inventoried and summarized in a report to the Alameda County Flood Control and Water Conservation District. This overview enables the district to better formulate policies and outline responsibilities for beneficial management of groundwater.

GEOGRAPHIC COVERAGE: East Bay Plains/N. Alameda County
THIS ACTIVITY STARTED: 09/20/1985 and **ENDED:** 11/22/1985 (dates may be approximate).
KEYWORDS: ground water management, hydrogeology, pertinent reports available, management.
FOR DETAILS, CONTACT: Kelvin Hickenbottom, Civil Engineer II
PHONE: (415) 670-5543 This summary information was **LAST VERIFIED** on: 10/26/1988

Alameda County; Waste Management Authority

Street address of Organization: 399 Elmhurst Street, Room 136; Hayward, CA 94544

PROGRAM: Alameda County Hazardous Waste Management Plan

Each county develops a plan for the management of all hazardous wastes produced by industries, homes, and other sources in its jurisdiction. The hazardous waste management plan includes an analysis of the volume and types of hazardous wastes generated, a survey of the potential for recycling and reducing the volume of wastes generated, and an inventory of existing hazardous waste facilities. The existing facilities that can be expanded are identified, as are sites that would be suitable for the placement of future facilities.

Alameda County has designated its Waste Management Authority, a joint powers agency, as the lead agency in preparation of this plan. The Waste Management Authority is composed of elected representatives from each of the 14 cities in the county, the county Board of Supervisors and the two sanitation districts.

Reference: AB2948 (1986, Tanner)

GEOGRAPHIC COVERAGE: Alameda County

THIS ACTIVITY STARTED: 09/01/1987 and CONTINUING as of: 08/15/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, enforcement, permitting, pertinent reports available, planning, site investigation, technical support, hazardous waste management, land use decisions, waste disposal.

FOR DETAILS, CONTACT: William Fraley, Secretary

PHONE: (415) 670-5400

This summary information was LAST VERIFIED on: 08/15/1988

PROGRAM: Alameda County Solid Waste Management Plan

The county prepares, adopts, maintains and implements a comprehensive, coordinated solid waste management plan for all waste originating within the county and all waste disposed of within the county. This plan is reviewed and revised, if appropriate, at least every three years. In Alameda County, the Department of Environmental Health in the Health Care Services Agency is the designated enforcement agency.

The objectives of the plan include:

- 1) to identify issues of regional concern;
- 2) to consider the feasibility of operating solid waste management systems on a regional basis;
- 3) to identify and reserve sites for the establishment or expansion of facilities;
- 4) to ensure that land uses near those sites are compatible; and
- 5) to establish a 20% solid waste recycling goal with methods to achieve the goal.

The plan is approved by the majority of the cities with the majority of the population within the county, as well as by the state Solid Waste Management Board. The following elements are included in the plan:

- 1) a statement of the county's short, medium and long-term goals for the next 20 years;
- 2) current and future solid waste management problems and solutions;
- 3) current and future estimates of the quantity of waste, including waste stream composition and recycling levels, by geographic area;
- 4) methods and feasibility of waste stream reduction, including the potential for regional resource recovery and source separation programs;
- 5) identification, location and description of all existing and proposed solid waste facilities;
- 6) amount of asbestos waste generated in the county from asbestos removal projects and disposal sites;
- 7) criteria for safe and effective waste storage on the source property;
- 8) use of county landfills by the City/County of San Francisco;
- 9) economic feasibility of the plan, including the cost of waste disposal; and
- 10) a schedule for implementation of the solid waste management program.

References: The California Code of Regulations, Title 14, Section 17129 et seq.; Government Code 15, Section 66710 et seq.

GEOGRAPHIC COVERAGE: Alameda County

THIS ACTIVITY STARTED: 07/01/1972 and CONTINUING as of: 08/15/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, enforcement, pertinent reports available, planning, site investigation, technical support, solid waste management, sites, land uses, recycling, goals, waste composition, waste reduction, cost, asbestos, geographic area, source separation.

FOR DETAILS, CONTACT: William Fraley, Secretary

PHONE: (415) 670-5400

This summary information was LAST VERIFIED on: 08/15/1988

PROJECT: Alameda County Project to Locate a New Sanitary Landfill in the Altamont Range

The Alameda County Waste Management Authority has funded this project to locate a new sanitary landfill in the Altamont Range. The new landfill would have a capacity of 100-150 years. After completing a generic Environmental Impact Report and studying detailed seismic, hydrogeology, air pollution, biology, archeology, soil and agricultural data on the area, candidate sites of approximately 80,000 acres will be identified.

GEOGRAPHIC COVERAGE: Alameda County

PART OF A PROGRAM titled: Alameda County Solid Waste Management Plan

CONTINUED FROM: Alameda County; Waste Management AuthorityPROJECT: Alameda County Project to Locate a New Sanitary Landfill in the Altamont Range

THIS ACTIVITY STARTED: 07/01/1987 and CONTINUING as of: 08/15/1988 (dates may be approximate).
 KEYWORDS: pertinent reports available, planning, site investigation, new landfill, 100-150 years capacity, EIR,
 identify sites, seismic, erosion, agriculture, hydrogeology.

FOR DETAILS, CONTACT: William Fraley, Secretary

PHONE: (415) 670-5400

This summary information was LAST VERIFIED on: 08/15/1988

Alpaugh Irrigation District

Mailing address of Organization: P.O. Box 129; Alpaugh, CA 93201

PROGRAM: Alpaugh Irrigation District Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Alpaugh Irrigation District Area (10,500 acres)

THIS ACTIVITY STARTED: 01/01/1916 and CONTINUING as of: 12/04/1989 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform,
 Title 22, AB1803.

FOR DETAILS, CONTACT: Lebon Penrod, District Manager

PHONE: (209) 949-8323

This summary information was LAST VERIFIED on: 12/04/1989

Alpine County; Department of Environmental Health

Mailing address of Organization: P.O. Box 306; Markleville, CA 96120

PROGRAM: Alpine County--Hazardous Waste Management Plans

The county develops a plan for the management of all hazardous wastes produced by industries, homes, and other sources in their jurisdiction. The hazardous waste management plan includes an analysis of the volume and types of hazardous wastes generated, a survey of the potential for recycling and reducing the volume of wastes generated, and an inventory of existing hazardous waste facilities. The existing facilities that can be expanded are identified, as are sites that would be suitable for the placement of future facilities.

Reference: AB2948 (1986, Tanner)

GEOGRAPHIC COVERAGE: Alpine County

THIS ACTIVITY STARTED: 03/01/1988 and CONTINUING as of: 03/09/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site investigation, hazardous waste management, land use decisions, waste disposal.

FOR DETAILS, CONTACT: Bob Karrasch, Director of Environmental Health

PHONE: (916) 265-1530

This summary information was LAST VERIFIED on: 03/09/1988

PROGRAM: Alpine County--Hazardous Materials Spills

The county prepares an area-wide emergency response plan to hazardous materials spills as outlined by the Office of Emergency Services. The emergency response plan outlines the responsibilities of the agencies involved. Events are coordinated with the appropriate incident commander, resources necessary to handle the spill are gathered, the spill is isolated and the media is informed. Appropriate people are called in to assess the extent of needed cleanup procedures.

All individual businesses that handle hazardous materials must submit to the county or city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

Reference: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: Alpine County

THIS ACTIVITY STARTED: 01/01/1987 and CONTINUING as of: 03/09/1988 (dates may be approximate).

KEYWORDS: administrative support, enforcement, ground water monitoring, pertinent reports available, planning,
 site inspection, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Bob Karrasch, Director of Environmental Health

PHONE: (916) 265-1530

This summary information was LAST VERIFIED on: 03/09/1988

PROGRAM: Alpine County--Regulation of On-Site Sewage Disposal Systems

The installation and maintenance of individual sewage disposal systems consisting of septic tanks and leach fields are regulated by a permit program. This program conducts percolation tests to determine the suitability of the leach field for treating wastes, checks for setback before issuing building permits, and ensures that there is good separation from water supply wells. Soil profiles may also be checked.

GEOGRAPHIC COVERAGE: Alpine County

THIS ACTIVITY STARTED: 01/01/1947 and CONTINUING as of: 03/09/1988 (dates may be approximate).

KEYWORDS: enforcement, ground water monitoring, permitting, planning, site inspection, site investigation, technical support, septic tanks, sewage, leach fields, percolation tests, wells, soil profiles.

FOR DETAILS, CONTACT: Bob Karrasch, Director of Environmental Health

PHONE: (916) 265-1530

This summary information was LAST VERIFIED on: 03/09/1988

PROGRAM: Alpine County--Small Water Supply Systems Monitoring Program

Community water systems consisting of less than 200 service connections are regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

This program also issues permits for small water systems to be built.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Alpine County

THIS ACTIVITY STARTED: 01/01/1960 and CONTINUING as of: 03/09/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Bob Karrasch, Director of Environmental Health

PHONE: (916) 265-1530

This summary information was LAST VERIFIED on: 03/09/1988

PROGRAM: Alpine County--Underground Tanks Program

Regulations apply to the design, construction, closure and abandonment of underground storage tanks. These regulations also apply to the monitoring and drainage systems installed at the tank locations.

Regulations are enforced through a permit program. Permits for underground tanks are renewed, modified or terminated based on an inspection of the tank and monitoring system. The permit is valid for 5 years, whereas the underground tank and the monitoring records are inspected every 3 years.

Reference: The California Code of Regulations, Title 23, Chapter 3, Subchapter 16.

GEOGRAPHIC COVERAGE: Alpine County

THIS ACTIVITY STARTED: 01/01/1987 and CONTINUING as of: 03/09/1988 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, permitting, planning, site inspection, site investigation, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Bob Karrasch, Director of Environmental Health

PHONE: (916) 265-1530

This summary information was LAST VERIFIED on: 03/09/1988

PROGRAM: Alpine County--Water Well Permitting

Regulations govern the siting, drilling and construction of new water wells, the deepening and reperforming existing wells, the abandonment and destruction of old wells. Regulations are enforced through a permit program.

After 1990, all counties will be required to adopt a well permitting ordinance, either a State model ordinance or their own.

References: Model Well Ordinance Act (AB3127, Arias, 1986); California Water Code Sections 231, 13701, 13712, 13800, 13801; DWR Bulletin 74-81 (Water Well Standards: State of California).

GEOGRAPHIC COVERAGE: Alpine County

THIS ACTIVITY STARTED: 01/01/1977 and CONTINUING as of: 03/09/1988 (dates may be approximate).

KEYWORDS: enforcement, permitting, site inspection, site investigation, water wells, construction, abandonment, destruction.

FOR DETAILS, CONTACT: Bob Karrasch, Director of Environmental Health

PHONE: (916) 265-1530

This summary information was LAST VERIFIED on: 03/09/1988

CONTINUED FROM: Alpine County; Department of Environmental Health

STUDY: Evaluation of the South Tahoe Public Utility District Waste Water Reuse Program

The purpose of this study is to determine the effects of the application of enhanced secondary effluent to pasture and haylands, and to provide, through a monitoring program, information to ensure that effluent reuse does not result in any long-term public health problems, environmental degradation, or nuisance.

Effluent migration will be identified through analysis of ground and surface waters. If pollution is discovered, appropriate cleanup measures will be taken.

GEOGRAPHIC COVERAGE: Northwest Alpine County, adjacent to the Nevada stateline

THIS ACTIVITY STARTED: 01/01/1988 and CONTINUING as of: 04/14/1988 (dates may be approximate).

KEYWORDS: hydrogeology, studies ground water pollutant transport, studies sources of pollution, waste water reuse, enhanced secondary effluent, pasture, haylands, public health, environmental degradation, nuisance, migration.

FOR DETAILS, CONTACT: Bob Karrasch, Director of Environmental Health

PHONE: (916) 265-1530

This summary information was LAST VERIFIED on: 04/14/1988

Amador County; Department of Environmental Health

Street address of Organization: 108 Court Street; Jackson, CA 95642

PROGRAM: Amador County--Hazardous Materials Spills

The county prepares an area-wide emergency response plan to hazardous materials spills as outlined by the Office of Emergency Services. The emergency response plan outlines the responsibilities of the agencies involved. Events are coordinated with the appropriate incident commander, resources necessary to handle the spill are gathered, the spill is isolated and the media is informed. Appropriate people are called in to assess the extent of needed cleanup procedures.

All individual businesses that handle hazardous materials must submit to the county their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

Reference: AB2815 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: Amador County

THIS ACTIVITY CONTINUING as of: 04/22/1988 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, pertinent reports available, planning, site inspection, hazardous material spills, emergency response plan.

FOR DETAILS, CONTACT: Tom Garamendi,

PHONE: (209) 223-6439

This summary information was LAST VERIFIED on: 04/22/1988

PROGRAM: Amador County--Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Amador County

THIS ACTIVITY CONTINUING as of: 04/22/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Tom Garamendi,

PHONE: (209) 223-6439

This summary information was LAST VERIFIED on: 04/22/1988

PROGRAM: Amador County--Regulation of On-Site Sewage Disposal Systems

The installation and maintenance of individual sewage disposal systems consisting of septic tanks and leach fields are regulated by a permit program. This program conducts percolation tests to determine the suitability of the leach field for treating wastes, checks for setback before issuing building permits, and ensures that there is good separation from water supply wells.

GEOGRAPHIC COVERAGE: Amador County

THIS ACTIVITY CONTINUING as of: 04/22/1988 (dates may be approximate).

CONTINUED FROM: Amador County; Department of Environmental Health
PROGRAM: Amador County--Regulation of On-Site Sewage Disposal Systems

KEYWORDS: enforcement, permitting, planning, site inspection, technical support, septic tanks, sewage, leach fields, percolation tests, wells.
FOR DETAILS, CONTACT: Tom Garamendi,
PHONE: (209) 223-6439

This summary information was LAST VERIFIED on: 04/22/1988

PROGRAM: Amador County--Sanitary Landfill Ground Water Monitoring Program

The ground water contamination detection program consists of regular sampling from a number of monitoring wells located in the vicinity of the landfill. The samples are obtained from the first encountered ground water and are tested monthly for pH, and specific conductance. The depth to ground water is also noted. Quarterly, the water samples are tested for chemical oxygen demand, chloride, iron, nitrate, total dissolved solids and total hardness.

The results of the monitoring program are maintained by the Regional Water Quality Control Board in the 'Waste Discharger Monitoring Files' as well as by the county office.

Reference: The California Code of Regulations, Title 23, Chapter 3, Subchapter 15, and by the California Water Code, Section 13273 (Solid Waste Assessment Test/SWAT/Calderon).

GEOGRAPHIC COVERAGE: Amador County

THIS ACTIVITY CONTINUING as of: 04/22/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, enforcement, ground water monitoring, planning, site inspection, technical support, landfill, well, ph, conductance, COD, chloride, iron, nitrate, TDS, total hardness, Subchapter 15, SWAT.

FOR DETAILS, CONTACT: Tom Garamendi,
PHONE: (209) 223-6439

This summary information was LAST VERIFIED on: 04/22/1988

PROGRAM: Amador County--Small Water Supply Systems Monitoring Program

The community water system consisting of less than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Amador County

THIS ACTIVITY CONTINUING as of: 04/22/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Tom Garamendi,
PHONE: (209) 223-6439

This summary information was LAST VERIFIED on: 04/22/1988

PROGRAM: Amador County--Underground Tanks Program

Regulations apply to the design, construction, closure and abandonment of underground storage tanks. These regulations also apply to the monitoring systems installed at the tank locations.

Regulations are enforced through a permit program. Permits for underground tanks are renewed, modified or terminated based on an inspection of the tank and monitoring system. The permit is valid for 5 years (with an annual renewal), whereas the underground tank and the monitoring records are inspected every 3 years.

Reference: The California Code of Regulations, Title 23, Chapter 3, Subchapter 16.

GEOGRAPHIC COVERAGE: Amador County

THIS ACTIVITY STARTED: 04/01/1986 and CONTINUING as of: 03/07/1988 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Willie Scheidt, Health and Human Resources Assistant Administrator
PHONE: (209) 223-6407

This summary information was LAST VERIFIED on: 03/07/1988

PROGRAM: Amador County--Water Well Permitting

Regulations govern the siting, drilling and construction of new water wells, the deepening and re-perforating existing wells, the abandonment and destruction of old wells. Regulations are enforced through a permit program.

After 1990, all counties will be required to adopt a well permitting ordinance, either a State model ordinance or their own.

CONTINUED FROM: Amador County; Department of Environmental Health
PROGRAM: Amador County--Water Well Permitting

References: Model Well Ordinance Act (AB3127, Arias, 1986); California Water Code Sections 231, 13701, 13712, 13800, 13801; DWR Bulletin 74-81 (Water Well Standards: State of California).

GEOGRAPHIC COVERAGE: Amador County

THIS ACTIVITY CONTINUING as of: 04/22/1988 (dates may be approximate).

KEYWORDS: enforcement, permitting, water wells, construction, abandonment, destruction.

FOR DETAILS, CONTACT: Tom Garamendi,

PHONE: (209) 223-6439

This summary information was LAST VERIFIED on: 04/22/1988

Amador County; Health Department

Street address of Organization: 108 Court Street; Jackson, CA 95642

PROGRAM: Amador County--Hazardous Waste Management Plans

The county develops a plan for the management of all hazardous wastes produced by industries, homes, and other sources in their jurisdiction. The hazardous waste management plan includes an analysis of the volume and types of hazardous wastes generated, a survey of the potential for recycling and reducing the volume of wastes generated, and an inventory of existing hazardous waste facilities. The existing facilities that can be expanded are identified, as are sites that would be suitable for the placement of future facilities.

Reference: AB2948 (1986, Tanner)

GEOGRAPHIC COVERAGE: Amador County

THIS ACTIVITY STARTED: 03/31/1988 and CONTINUING as of: 03/07/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, enforcement, permitting, pertinent reports available, planning, site investigation, technical support, hazardous waste management, land use decisions, waste disposal.

FOR DETAILS, CONTACT: Willie Scheidt, Health and Human Resources Assistant Administrator

Amador County; Department of Environmental Health

108 Court Street; Jackson, CA 95642

PHONE: (209) 223-6407

This summary information was LAST VERIFIED on: 03/07/1988

Antelope Valley E. Kern Water Agency

Mailing address of Organization: P. O. Box 3176; Quartz Hill, CA 93586-0176

PROGRAM: Antelope Valley East Kern Water Agency In-Lieu Ground Water Recharge Program

Surface water is imported and sold for agricultural purposes at economically competitive prices in lieu of ground water withdrawals. This incentive is necessary to prevent low ground water levels in the Antelope Valley and Fremont Basins from being further depleted.

GEOGRAPHIC COVERAGE: Western Portion of Antelope Basin

THIS ACTIVITY STARTED: 01/01/1976 and CONTINUING as of: 07/12/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water monitoring, planning, imported surface water, ground water, water cost.

FOR DETAILS, CONTACT: Wallace Spinarski, General Manager

PHONE: (805) 943-3201

This summary information was LAST VERIFIED on: 07/12/1990

STUDY: Antelope Valley East Kern Water Agency Cooperative Ground Water Study With USGS

The Antelope Valley East Kern Water Agency, in cooperation with the United States Geological Society, conducts studies on the quantity and quality of ground water supplies available for their use. Many studies include measurements of mineral and contaminant levels.

GEOGRAPHIC COVERAGE: Antelope Valley and Fremont Basins

THIS ACTIVITY STARTED: 01/01/1962 and CONTINUING as of: 07/12/1990 (dates may be approximate).

KEYWORDS: ground water management, ground water usage, hydrogeology, project planning, ground water quality and quantity, general minerals, contaminants.

FOR DETAILS, CONTACT: Wallace Spinarski, General Manager

PHONE: (805) 943-3201

This summary information was LAST VERIFIED on: 07/12/1990

Arcade County Water District

Mailing address of Organization: P.O. Box 214009; Sacramento, CA 95821

PROGRAM: Arcade County Water District Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: 18 Square Miles in Central Northeastern Sacramento County

THIS ACTIVITY STARTED: 01/01/1956 and CONTINUING as of: 08/19/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: E. Walt Libal, Manager

PHONE: (916) 972-7171

This summary information was LAST VERIFIED on: 08/19/1988

PROGRAM: Ground Water Level Monitoring Program for the Arcade County Water District

This program involves the measuring of ground water in sixty wells monthly for static levels and twice a year, in the fall and spring, for pumping levels.

GEOGRAPHIC COVERAGE: 18 Square Miles in Central Northeastern Sacramento County

THIS ACTIVITY STARTED: 01/01/1956 and CONTINUING as of: 08/19/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, ground water levels, static levels, pumping levels.

FOR DETAILS, CONTACT: E. Walt Libal, Manager

PHONE: (916) 972-7171

This summary information was LAST VERIFIED on: 08/19/1988

PROJECT: Arcade County Water District Recharge of the Ground Water Basin

This project involves the use of production wells for recharging the ground water basin.

GEOGRAPHIC COVERAGE: 18 Square Miles in Central Northeastern Sacramento County

THIS ACTIVITY STARTED: 01/01/1989 and may END: 01/01/1993 (dates may be approximate).

KEYWORDS: allocates funds, ground water cleanup, demonstration project, ground water monitoring, pertinent reports available, planning, site investigation, production wells, recharge, ground water basin.

FOR DETAILS, CONTACT: E. Walt Libal, Manager

PHONE: (916) 972-7171

This summary information was LAST VERIFIED on: 08/19/1988

Aromas County Water District

Mailing address of Organization: P.O. Box 296; Aromas, CA 95004

PROGRAM: Aromas County Water District Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Town of Aromas (1000 acres)

THIS ACTIVITY STARTED: 01/01/1959 and CONTINUING as of: 11/02/1989 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: George West, General Manager

PHONE: (408) 726-3155

This summary information was LAST VERIFIED on: 11/02/1989

Arrowbear Park County Water District

Street address of Organization: 2365 Fir Drive; Arrowbear, CA 92382
 Mailing address of Organization: P.O. Box 45; Arrowbear, CA 92382

PROGRAM: Arrowbear Park County Water District--Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and monthly for uranium and gross alpha. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: 1 square mile in the community of Arrowbear Lake

THIS ACTIVITY STARTED: 01/01/1956 and CONTINUING as of: 09/23/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, water supply wells, organics, minerals, wells, chlorine, total coliform, uranium, gross alpha, Title 22, AB1803.

FOR DETAILS, CONTACT: Dick Wymer, General Manager

PHONE: (714) 867-2704

This summary information was LAST VERIFIED on: 09/23/1988

PROJECT: Removal of Naturally Occurring Uranium from Ground Water

An ion exchange treatment facility will be built to remove naturally occurring Uranium from ground water before it is used in a municipal water supply system. Pilot testing was completed in August 1988 and full operation of the treatment plant is expected to begin around December 1988. Daily data on the ion exchange process will be taken.

GEOGRAPHIC COVERAGE: 1 square mile in the community of Arrowbear Lake

THIS ACTIVITY STARTED: 07/01/1988 and ENDED: 12/01/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, ground water monitoring, pertinent reports available, planning, site investigation, uranium, ion exchange.

FOR DETAILS, CONTACT: Dick Wymer, General Manager

PHONE: (714) 867-2704

This summary information was LAST VERIFIED on: 09/23/1988

Arvin Community Services District

Mailing address of Organization: P.O. Box 333; Arvin, CA 93203

PROGRAM: Arvin Community Services District Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Arvin

THIS ACTIVITY STARTED: 01/01/1957 and CONTINUING as of: 02/01/1990 (dates may be approximate).

KEYWORDS: enforcement, ground water monitoring, pertinent reports available, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Raymond Kincy, District Manager

PHONE: (805) 854-2127

This summary information was LAST VERIFIED on: 02/01/1990

Association of Bay Area Governments

Mailing address of Organization: P.O. Box 2050; Oakland, CA 94604-2050

STUDY: Urban Stormwater Treatment at Coyote Hills Marsh

Three artificial marsh\pond systems are designed and constructed to determine the effectiveness of using artificially- created wetland systems for removing pollutants from stormwater. As part of the study, both surface and ground water, soil, and plant communities are sampled to determine the environmental fate of pollutants.

GEOGRAPHIC COVERAGE: Alameda County, City of Fremont

THIS ACTIVITY STARTED: 01/01/1983 and ENDED: 01/01/1986 (dates may be approximate).

KEYWORDS: pertinent reports available, project planning, studies sources of pollution, monitoring, soil, plant communities, artificial wetlands, stormwater runoff.

FOR DETAILS, CONTACT: Emy Meiorin, Senior Environmental Engineer

PHONE: 415 464-7941

This summary information was LAST VERIFIED on: 04/24/1989

Baker Community Service District

Mailing address of Organization: P.O. Box 127; Baker, CA 92309

PROGRAM: Baker Community Services District Water Supply Monitoring Program

The Baker community water system (providing service to approximately 600 residents) is sampled monthly at random distribution points for total coliform bacteria concentrations. Individual community supply wells are sampled every 3 years for minerals and organic compounds. None of Baker's water supply system undergoes water treatment operations (i.e. neither chlorination nor filtration). Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Four square miles within the community of Baker, California

THIS ACTIVITY STARTED: 08/01/1988 and CONTINUING as of: 03/09/1989 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, water supply, organics, minerals, wells, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Ann Price, Administrative Assistant

PHONE: (619) 733-4402

This summary information was LAST VERIFIED on: 03/09/1989

STUDY: The Engineering Study

The purpose of the study is to quantify the extent and quality of ground water in the Baker ground water basin and potable water supply system. The unincorporated community of Baker, located in the Mojave River Valley, presently needs to expand their current water supply system; needs can be met by drilling two additional production wells. Approximately 600 residents now utilize Baker's current ground water system of three wells, drilled in excess of 200 feet below ground. The ground water basin is recharged naturally by rainfall and Mojave River baseflow.

Thus far, laboratory analyses reveal that Baker's ground water supply wells have elevated levels of radioactive constituents. The source of these constituents is presently under investigation.

GEOGRAPHIC COVERAGE: Four square miles within the community of Baker, California

THIS ACTIVITY STARTED: 08/01/1988 and CONTINUING as of: 03/14/1989 (dates may be approximate).

KEYWORDS: pertinent reports available, project planning, potable, radioactivity, coliform bacteria, expansion.

FOR DETAILS, CONTACT: Ann Price, Administrative Assistant

PHONE: (619) 733-4402

This summary information was LAST VERIFIED on: 03/14/1989

Baldy Mesa County Water District

Street address of Organization: 10028 - 6th Street; Baldy Mesa, CA 92393

Mailing address of Organization: P.O. Box 1347; Victorville, CA 92393

PROGRAM: Baldy Mesa County Water District--Large Water Supply Systems Monitoring Program

The community water system consisting of more than 1008 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Area of Baldy Mesa

THIS ACTIVITY STARTED: 01/01/1982 and CONTINUING as of: 11/23/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Ken Dean, General Manager

PHONE: (619) 949-0332

This summary information was LAST VERIFIED on: 11/23/1988

Bear Valley Community Services District

Mailing address of Organization: Star Route 3, P.O. Box 4800; Tehachapi, CA 93561

PROGRAM: Bear Valley Community Services District Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

CONTINUED FROM: Bear Valley Community Services DistrictPROGRAM: Bear Valley Community Services District Large Water Supply Systems Monitoring

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Unincorporated Community of Bear Valley

THIS ACTIVITY STARTED: 01/01/1970 and CONTINUING as of: 02/15/1990 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Tom Robinson, District Manager

PHONE: (805) 821-4428

This summary information was LAST VERIFIED on: 02/15/1990

Beaumont-Cherry Valley Water District

Street address of Organization: 560 Magnolia; Beaumont, CA 92223

Mailing address of Organization: P.O. Box 2037; Beaumont, CA 92223

PROGRAM: Beaumont-Cherry Valley Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Township 2, Range 1 West and 1 South 1 West

THIS ACTIVITY STARTED: 01/01/1965 and CONTINUING as of: 04/27/1989 (dates may be approximate).

KEYWORDS: administrative support, ground water monitoring, pertinent reports available, planning, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Chuck Butcher, General Manager

PHONE: (714) 845-9581

This summary information was LAST VERIFIED on: 04/27/1989

PROGRAM: Conjunctive Use of Local Run-off

The program captures stormwater run-off into the normally dry Little San Gorgonio Creek and impounds the water via numerous dykes. There are about 30 dykes in the 4 mile canyon. The captured water recharges ground water accessed by about 14 active wells in the canyon.

GEOGRAPHIC COVERAGE: Township 2, Range 1 West and 1 South 1 West

THIS ACTIVITY STARTED: 06/01/1989 and CONTINUING as of: 04/27/1989 (dates may be approximate).

KEYWORDS: ground water monitoring, planning, recharge, stormwater runoff, wells, conjunctive use.

FOR DETAILS, CONTACT: Chuck Butcher, General Manager

PHONE: (714) 845-9581

This summary information was LAST VERIFIED on: 04/27/1989

STUDY: Ground Water Activity in Cherry Valley

New wells are needed to meet water supply demands. The availability of ground water in 3 of the Beaumont sub-basins is assessed to determine where these wells should be located.

GEOGRAPHIC COVERAGE: Township 2, Range 1 West and 1 South 1 West

THIS ACTIVITY STARTED: 01/01/1986 and ENDED: 04/30/1986 (dates may be approximate).

KEYWORDS: hydrogeology, pertinent reports available, project planning, studies extent of ground water pollution, new well sites, sub-basins, ground water availability.

FOR DETAILS, CONTACT: Chuck Butcher, General Manager

PHONE: (714) 845-9581

This summary information was LAST VERIFIED on: 04/27/1989

Bella Vista Water District

Street address of Organization: 4015 Highway 299E; Redding, CA 96003

PROGRAM: Large Water Supply System Monitoring - Bell Vista Water District

This water system consisting of approximately 2,500 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

CONTINUED FROM: Bella Vista Water DistrictPROGRAM: Large Water Supply System Monitoring - Bell Vista Water District

GEOGRAPHIC COVERAGE: Bella Vista Water District

THIS ACTIVITY STARTED: 01/01/1965 and CONTINUING as of: 12/31/1987 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Charles Lukens, Water Treatment Operator

PHONE: (916) 241-1085

This summary information was LAST VERIFIED on: 12/31/1987

Big Bear City Community Service District

Mailing address of Organization: P.O. Box 558; Big Bear City, CA 92314

PROGRAM: Big Bear City Community Services District--Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals, and every 4 years for radioactivity. Organic chemicals are monitored every 2 years. The wells are analyzed for the following chemicals of chemical groups: purgeable halocarbons, purgeable aromatics, Dalapon, Simazine, Atrazine, Endrin, Lindane, Methoxychlor, Toxaphene, 2,4-D, 2,4,5-TP Silvex, Durasban. Other constituents are tested for occasionally as requested by the Department of Health Services.

The method of tracking the sampling due dates will be done by a computerized scheduling program called the "Water Distribution Management System" by R.J. Hanson, Inc.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Community of Big Bear City

THIS ACTIVITY STARTED: 01/01/1984 and CONTINUING as of: 08/30/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, dalapon, simazine, atrazine, durasban, endrin, lindane, Title 22, AB1803.

FOR DETAILS, CONTACT: Gary Keller, Water Superintendent

PHONE: (714) 585-2565

This summary information was LAST VERIFIED on: 08/30/1988

STUDY: Reevaluation of Sustained Yields, Baldwin Lake Watershed, San Bernardino County

This study updates the May 1978 report on the hydrogeologic conditions in the Baldwin Lake and Big Bear Lake Watersheds. Revisions are based on recent geologic mapping, ground water extraction information, precipitation records, and an analysis of the sustained yield based on the new data.

The hydrologic subareas covered in this updated report are in the Baldwin Lake Watershed, which includes West Baldwin, East Baldwin, Erwin, and Van Dusen. The following conclusions were formulated. The Erwin Subarea is in a state of overdraft. The East Baldwin and Van Dusen Subareas are within sustained yield accuracy limits.

Estimates of sustained yield in the West Baldwin Subarea must be reduced due to a high fluoride problem which was detected when additional water supplies were developed at depths below 150 feet.

GEOGRAPHIC COVERAGE: Baldwin Lake Watershed

THIS ACTIVITY STARTED: 04/01/1986 and ENDED: 04/23/1987 (dates may be approximate).

KEYWORDS: ground water management, ground water usage, hydrogeology, pertinent reports available, overdraft, sustained yield, fluoride, water supply, geologic mapping, extraction.

FOR DETAILS, CONTACT: Gary Keller, Water Superintendent

PHONE: (714) 585-2565

This summary information was LAST VERIFIED on: 08/30/1988

Big Pine Community Service District

Street address of Organization: 180 North Main Street; Big Pine, CA 93513

Mailing address of Organization: P.O. Box 652; Big Pine, CA 93513

PROJECT: Big Pine Ground Water Monitoring for Waste Water Treatment Plant

Two wells have been installed at the waste water treatment plant to monitor the ground water. Samples are taken quarterly and tested for Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), and Methyl Blue Active Substances (MBAS). The Methyl Blue Active Substances include nitrates and detergents. The information obtained is sent to the Lahontan Regional Water Quality Control Board in the form of quarterly reports and paper files of the reports and test results are maintained at the District.

GEOGRAPHIC COVERAGE: City of Big Pine

THIS ACTIVITY STARTED: 08/01/1987 and CONTINUING as of: 08/03/1988 (dates may be approximate).

CONTINUED FROM: **Big Pine Community Service District**
 PROJECT: Big Pine Ground Water Monitoring for Waste Water Treatment Plant

KEYWORDS: ground water monitoring, pertinent reports available, waste water, treatment plant, COD, BOD, mbas, nitrates, detergents.
 FOR DETAILS, CONTACT: Dennis Tillemans, Waste Water Treatment Plant Operator
 PHONE: (619) 872-1104 This summary information was LAST VERIFIED on: 08/03/1988

Bighorn Mountains Water Agency

Mailing address of Organization: P.O. Box 3838; Landers, CA 92285

PROGRAM: Bighorn Mountains Water Agency--Ground Water Monitoring Program

The purpose of this program is to manage the Ground Water resource by monitoring the ground water level. Monitoring is done on Agency wells on a weekly basis, strategic nonproducing domestic wells on a monthly basis, and water quality on an annual basis.

The geographic area described as Landers and Johnson valleys is more precisely described as follows:
 - Township 2N Range 5E Sections 2, 3, 10, 11, 12
 - Township 2N Range 6E Sections 3 thru 31
 - Township 3N Range 4E Sections 7 thru 22
 - Township 3N Range 5E Sections 4 thru 36.

GEOGRAPHIC COVERAGE: Landers and Johnson Valleys
 THIS ACTIVITY STARTED: 01/01/1986 and CONTINUING as of: 08/17/1988 (dates may be approximate).
 KEYWORDS: ground water monitoring, level, wells.
 FOR DETAILS, CONTACT: Mike Maline, Manager
 PHONE: (619) 364-2286 This summary information was LAST VERIFIED on: 08/17/1988

Biola Community Services District

Mailing address of Organization: P.O. Box 57; Biola, CA 93606

PROGRAM: Biola Community Services District Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

Test results in 1989 show that the water supply has DBCP problems. The agency is investigating funding sources to drill deeper wells or institute a granulated active carbon filtration system.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Town of Biola
 THIS ACTIVITY STARTED: 01/01/1986 and CONTINUING as of: 10/13/1989 (dates may be approximate).
 KEYWORDS: ground water cleanup, ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803, DBCP.
 FOR DETAILS, CONTACT: Cheryl Belluomini, General Manager
 PHONE: (209) 843-2657 This summary information was LAST VERIFIED on: 10/13/1989

Boron Community Services District

Mailing address of Organization: P.O. Drawer B; Boron, CA 93596

PROGRAM: Boron Community Services District Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Unincorporated Town of Boron
 THIS ACTIVITY STARTED: 01/01/1953 and CONTINUING as of: 01/23/1990 (dates may be approximate).
 KEYWORDS: enforcement, ground water monitoring, pertinent reports available, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.
 FOR DETAILS, CONTACT: Russell Terrill, District Manager
 PHONE: (619) 762-6127 This summary information was LAST VERIFIED on: 01/23/1990

Borrego Water District

Mailing address of Organization: P.O. Box 369; Vista, CA 92083

PROGRAM: Borrego Water District Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Eastern Part of San Diego County

THIS ACTIVITY STARTED: 01/01/1981 and CONTINUING as of: 03/12/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water monitoring, planning, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: L.R. Burzell, District Manager

PHONE: (619) 726-5856

This summary information was LAST VERIFIED on: 03/12/1990

Brierwood Mobile Home Estates

Street address of Organization: 45800 Challenger Way; OFFICE; Lancaster, CA 93535

PROGRAM: Brierwood Mobile Home Estates Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Twenty-six Acre Mobile Home Park In Lancaster

THIS ACTIVITY STARTED: 01/01/1970 and CONTINUING as of: 07/24/1990 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Dick Harman, Manager, Mobile Home Park

PHONE: (805) 945-2425

This summary information was LAST VERIFIED on: 07/24/1990

Butte County; Environmental Health Department

Street address of Organization: 196 Memorial Way; Chico, CA 95926

PROGRAM: Regulation of On Site Sewage Disposal Systems

The installation and maintenance of individual sewage disposal systems consisting of septic tanks and leach fields are regulated by a permit program. This program conducts percolation tests to determine the suitability of the leach field for treating wastes, checks for setback before issuing building permits, and ensures that there is good separation from water supply wells.

GEOGRAPHIC COVERAGE: Butte County

THIS ACTIVITY STARTED: 01/01/1950 and CONTINUING as of: 12/31/1987 (dates may be approximate).

KEYWORDS: administrative support, enforcement, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, septic tanks, sewage, leach fields, percolation tests, wells.

FOR DETAILS, CONTACT: Tom Reed, Senior Sanitarian

PHONE: (916) 891-2727

This summary information was LAST VERIFIED on: 12/31/1987

PROGRAM: Sanitary Landfill Permitting and Monitoring Program - Butte County

The ground water contamination detection program consists of regular sampling from a number of monitoring wells located in the vicinity of the landfill. The samples are obtained from the first encountered ground water and are tested monthly for pH, and specific conductance. The depth to ground water is also noted. Quarterly, the water samples are tested for chemical oxygen demand, chloride, iron, nitrate, total dissolved solids and total hardness.

The results of the monitoring program are maintained by the Regional Water Quality Control Board in the 'Waste Discharger Monitoring Files' as well as by this county office.

Reference: The California Code of Regulations, Title 23, Chapter 3, Subchapter 15, and the California Water Code, Section 13273 (Solid Waste Assessment Test/SWAT/Calderon).

GEOGRAPHIC COVERAGE: Butte County

THIS ACTIVITY STARTED: 01/01/1977 and CONTINUING as of: 12/31/1987 (dates may be approximate).

CONTINUED FROM: Butte County; Environmental Health DepartmentPROGRAM: Sanitary Landfill Permitting and Monitoring Program - Butte County

KEYWORDS: administrative support, enforcement, ground water monitoring, permitting, planning, site inspection, site investigation, technical support, landfill, well, ph, conductance, COD, chlorine, iron, nitrate, TDS, total hardness, Subchapter 15, SWAT.

FOR DETAILS, CONTACT: Tom Reed, Senior Sanitarian

PHONE: (916) 891-2727

This summary information was LAST VERIFIED on: 12/31/1987

PROGRAM: Water Well Permitting - Butte County

Regulations govern the siting, drilling and construction of new water wells, the deepening and reperforming of existing wells, and the abandonment and destruction of old wells. Regulations are enforced through a permit program.

Water Well Driller Reports are on file at the County Environmental Health Department office and copies are forwarded to the California Department of Water Resources, Northern District in Red Bluff.

After 1990, all counties will be required to adopt a well permitting ordinance, either a State model ordinance or their own.

References: California Water Code Sections 231, 13800, DWR Bulletin 74-81 (Water Well Standards: State of California); Model Well Ordinance Act (AB3127, Arias, 1986); California Water Code Sections 13701, 13712, 13800, 13801.

GEOGRAPHIC COVERAGE: Butte County

THIS ACTIVITY STARTED: 01/01/1977 and CONTINUING as of: 12/31/1987 (dates may be approximate).

KEYWORDS: administrative support, enforcement, permitting, planning, site inspection, technical support, water wells, construction, abandonment, destruction.

FOR DETAILS, CONTACT: Tom Reed, Senior Sanitarian

PHONE: (916) 891-2727

This summary information was LAST VERIFIED on: 12/31/1987

Butte County; Environmental Health Department; Oroville Branch

Street address of Organization: 7 County Center Drive; Oroville, CA 95965

PROGRAM: Hazardous Materials Spills Program

This program was instituted to comply with regulations of the State Office of Emergency Services. All individual businesses that handle hazardous materials must submit to the county an inventory of hazardous materials stored, as well as their plan for responding to an accidental release of these materials.

The initial response to a hazardous material spill includes the containment and cleanup of the material. Removal of more than 55 gallons of hazardous material is performed by a professional removal firm. After this initial response, additional cleanup (if necessary) continues. Monitoring wells may be installed for further study.

Response to a hazardous material spill may include use of the HAZMAT response vehicle based in Redding and operated by the Shasta County Emergency Services Department.

Reference: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: Butte County

THIS ACTIVITY STARTED: 02/01/1986 and CONTINUING as of: 01/04/1988 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, pertinent reports available, site inspection, site investigation, technical support, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Howard Snyder, Supervising Sanitarian

PHONE: (916) 538-7281

This summary information was LAST VERIFIED on: 01/04/1988

PROGRAM: Small Water Supply Systems Monitoring Program - Butte County

Community water systems consisting of less than 200 service connections are regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Butte County

THIS ACTIVITY STARTED: 01/01/1977 and CONTINUING as of: 01/04/1988 (dates may be approximate).

KEYWORDS: administrative support, enforcement, ground water monitoring, permitting, planning, site inspection, site investigation, technical support, water supply, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Howard Snyder, Supervising Sanitarian

PHONE: (916) 538-7281

This summary information was LAST VERIFIED on: 01/04/1988

PROGRAM: Underground Tanks Program

Regulations apply to the design, construction, closure and abandonment of underground storage tanks. These regulations also apply to the monitoring and drainage systems installed at the tank locations.

Regulations are enforced through a permit program. Permits for underground tanks are renewed, modified or terminated based on an inspection of the tank and monitoring system. The permit is valid for one year, whereas the underground tank and the monitoring records are inspected every 3 years.

Reference: The California Code of Regulations, Title 23, Chapter 3, Subchapter 16.

GEOGRAPHIC COVERAGE: Butte County except Oroville and Chico

THIS ACTIVITY STARTED: 02/01/1986 and CONTINUING as of: 01/04/1988 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water modeling, ground water monitoring, permitting, planning, site inspection, site investigation, technical support, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Howard Snyder, Supervising Sanitarian

PHONE: (916) 538-7281

This summary information was LAST VERIFIED on: 01/04/1988

Buttonwillow County Water District

Mailing address of Organization: P.O. Box 874; Buttonwillow, CA 93206

PROGRAM: Buttonwillow County Water District Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Unincorporated Town of Buttonwillow

THIS ACTIVITY STARTED: 01/01/1970 and CONTINUING as of: 03/22/1990 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Albert Pacini, District Secretary

PHONE: (805) 764-5273

This summary information was LAST VERIFIED on: 03/22/1990

Calaveras County; Department of Public Works; Solid Waste Division

Street address of Organization: Government Center; San Andreas, CA 95249

PROGRAM: Calaveras County--Redhill Landfill Ground Water Monitoring Program

The ground water contamination detection program consists of regular sampling from a number of monitoring wells located in the vicinity of the landfill. The samples are obtained from the first encountered ground water and are tested monthly for pH, and specific conductance. The depth to ground water is also noted. Quarterly, the water samples are tested for chemical oxygen demand, chloride, iron, nitrate, total dissolved solids and total hardness.

The results of the monitoring program are maintained by the Regional Water Quality Control Board in the 'Waste Discharger Monitoring Files' as well as by the county office.

Reference: The California Code of Regulations, Title 23, Chapter 3, Subchapter 15, and the California Water Code, Section 13273 (Solid Waste Assessment Test/SWAT/Calderon).

GEOGRAPHIC COVERAGE: Calaveras County

THIS ACTIVITY STARTED: 01/01/1980 and CONTINUING as of: 04/19/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, enforcement, ground water monitoring, planning, site inspection, technical support, landfill, well, ph, conductance, COD, chloride, iron, nitrate, TDS, total hardness, Subchapter 15, SWAT.

FOR DETAILS, CONTACT: Staff

PHONE: (209) 754-6402

This summary information was LAST VERIFIED on: 04/19/1988

California American Water Company; Operations Division

Mailing address of Organization: P.O. Box 951; Monterey, CA 93942

PROGRAM: California American Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

CONTINUED FROM: California American Water Company; Operations Division
PROGRAM: California American Large Water Supply Systems Monitoring

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Monterey Peninsula Area and Carmel Valley
THIS ACTIVITY STARTED: 01/01/1930 and CONTINUING as of: 07/05/1989 (dates may be approximate).
KEYWORDS: administrative support, allocates funds, enforcement, ground water monitoring, pertinent reports available, planning, site inspection, site investigation, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Jerry Haas, Operations Manager
PHONE: (408) 373-3051

This summary information was LAST VERIFIED on: 07/05/1989

California Colorado River Board

Street address of Organization: 107 South Broadway; Los Angeles, CA 90012

PROGRAM: Protection of California's Colorado River Rights and Interests

This program protects California's rights and interests in the Colorado River Water System (a system providing water and power to an area serving about one-half the State's population) from internal, international and interstate conflicts.

The water rights of the system apply equally to both ground water in the Colorado River Basin and mainstream river water. Protecting water quality in the system applies to both the ground and surface water.

The major objectives of the program are as follows: 1) Maintain or increase the quantity of Colorado River water available for use in California; 2) Maintain salinity at or below the Basin States' adopted standards; 3) Maintain California's portion of the Colorado River resource that is impacted by the U.S.-Mexico Water Treaty.

GEOGRAPHIC COVERAGE: Colorado River Basin
THIS ACTIVITY STARTED: 01/01/1937 and CONTINUING as of: 03/01/1988 (dates may be approximate).
KEYWORDS: administrative support, ground water modeling, ground water monitoring, pertinent reports available, planning, colorado river rights, salinity, mexico.

FOR DETAILS, CONTACT: Dennis Underwood, Executive Director
PHONE: (213) 620-4480

This summary information was LAST VERIFIED on: 03/01/1988

California Department of Conservation; Division of Oil and Gas; (Resources Building)

Street address of Organization: 1416 9th Street, Room 1310; Sacramento, CA 95814

PROGRAM: Oil, Gas, and Geothermal Well Regulation

The Division of Oil and Gas supervises the drilling, operation, maintenance, and abandonment of oil, gas, and geothermal wells so as to prevent damage to life, health, property, and natural resources.

The Division of Oil and Gas is mandated by law to prevent damage to underground and surface waters suitable for irrigation or domestic purposes caused by the infiltration or the addition of detrimental substances associated with drilling, maintenance, and abandonment of oil, gas, and geothermal wells.

GEOGRAPHIC COVERAGE: All of California
THIS ACTIVITY STARTED: 01/01/1915 and CONTINUING as of: 01/04/1988 (dates may be approximate).
KEYWORDS: administrative support, enforcement, ground water monitoring, permitting, site inspection, site investigation, technical support, oil, gas, geothermal, drilling, operation, maintenance, o&g, abandonment, infiltration.

FOR DETAILS, CONTACT: Jim Campion, Statistical Engineer
PHONE: (916) 323-1779

This summary information was LAST VERIFIED on: 01/04/1988

PROGRAM: Underground Injection Control (UIC) Program for Class II Injection Wells

The Division of Oil and Gas has been regulating subsurface injection of oilfield waste water for over 45 years, and applied to EPA in 1981 for authority to regulate oilfield injection wells. After making some modifications to the division's program to satisfy EPA requirements, the division, on March 14, 1983, was granted primacy for oilfield injection wells.

The Safe Drinking Water Act (SDWA) (1974), in part, requires the Environmental Protection Agency (EPA) to develop minimum requirements for the protection of underground drinking water sources from endangerment by subsurface fluid injection and disposal of oilfield waste water. This mandated protection of underground sources of drinking water has a direct effect upon the responsibility of, and the programs administered by, the Division of Oil and Gas. Section 1425 of the SDWA allows EPA to grant primary enforcement authority over these injection wells to States that can demonstrate they have regulatory programs meeting EPA's minimum requirements.

GEOGRAPHIC COVERAGE: Oil and Gas Producing Areas in California
THIS ACTIVITY STARTED: 03/14/1983 and CONTINUING as of: 03/10/1988 (dates may be approximate).

CONTINUED FROM: California Department of Conservation; Division of Oil and Gas; (Resources Building)
PROGRAM: Underground Injection Control (UIC) Program for Class II Injection Wells

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, permitting, site inspection, site investigation, technical support, underground injection control, UIC, oil, gas, oilfield waste water, safe drinking water act, Class II wells.

FOR DETAILS, CONTACT: Bob Reid, Division of Oil and Gas Regulatory Specialist

PHONE: (916) 323-1781

This summary information was LAST VERIFIED on: 03/10/1988

STUDY: Effects of Oilfield Operations on Underground Sources of Drinking Water in Kern County

Samples are gathered from many sources (public, municipal, oil and gas, etc.) to determine the impacts on ground water by oilfield operations in Kern County and to distinguish oil field impacts from agricultural and industrial impacts.

GEOGRAPHIC COVERAGE: Kern County

PART OF A PROGRAM titled: Underground Injection Control (UIC) Program for Class II Injection Wells

THIS ACTIVITY STARTED: 05/01/1985 and ENDED: 03/01/1988 (dates may be approximate).

KEYWORDS: estimate impacts of ground water pollution, ground water usage, hydrogeology, pertinent reports available, studies extent of ground water pollution, studies ground water pollutant transport, studies sources of pollution, oilfield operations, agriculture, industrial.

FOR DETAILS, CONTACT: Dave Mitchell, Associate Oil and Gas Engineer

California Department of Conservation; Division of Oil and Gas

4800 Stockdale Hwy., Suite 417; Bakersfield, CA 93309

PHONE: (805) 322-4031

This summary information was LAST VERIFIED on: 03/01/1988

California Department of Conservation; Division of Administration; Farmland Mapping and Monitoring Program

Street address of Organization: 1516 9th Street, Rm 400; Sacramento, CA 95814

PROGRAM: Department of Conservation Farmland Mapping and Monitoring Program

The program maintains maps of farmlands classified according to land inventory and monitoring (LIM) categories. The categories were developed by the United States Department of Agriculture (USDA) to provide a national classification scheme to rank farmlands nationwide as to their national, state and local importance. The scheme distinguishes among four classes of farmland: prime, state-wide, unique, and locally important farmland.

The maps show crop lands and urban built-up areas. They have been compiled since 1984 and are updated every 2 years. Maps are published in two scales: 1:24,000 and 1:100,000, the first to match the United States Geological Survey seven and one-half minute quadrangle maps and the "Country Separate Series". The program also maintains acreage statistics for each county and farmland category.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1982 and CONTINUING as of: 10/19/1989 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, planning, technical support, farmland classification, farmland maps, farmland acreage.

FOR DETAILS, CONTACT: Robert Yoha, Program Manager

PHONE: (916) 324-0859

This summary information was LAST VERIFIED on: 10/19/1989

California Department of Food and Agriculture

Street address of Organization: 1220 N Street; Sacramento, CA 95814

Mailing address of Organization: P.O. Box 942871; Sacramento, CA 94271-001

STUDY: Nitrate and Agriculture in California

The contribution of Nitrate to the pollution of surface and ground water due to agriculture is investigated under the auspices of the Nitrate Working Committee. Conclusions are formulated into a staff report for review by the Director of the Department of Food and Agriculture.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1988 and ENDED: 02/10/1989 (dates may be approximate).

KEYWORDS: ground water usage, pertinent reports available, studies extent of ground water pollution, studies sources of pollution, committee, department of food and agriculture, report, nitrate, agricultural impact, confined animal facilities, sources of agricultural nitrate.

FOR DETAILS, CONTACT: Dean Schnaible, Associate Engineering Geologist

California State Water Resources Control Board; Division of Water Quality

901 P Street; Sacramento, CA 95814

mailing address: P.O. Box 944213; Sacramento, CA 94244-2130

PHONE: (916) 322-3447

This summary information was LAST VERIFIED on: 02/21/1989

California Department of Food and Agriculture; Pest Management, Envir. Protection and Worker Safety Division; Environmental Monitoring and Pest Management Branch

Street address of Organization: 1220 N Street; Sacramento, CA 95814

PROGRAM: Environmental Hazards Assessment Program

One of the objectives of this program is to implement certain provisions of the Pesticide Contamination Prevention Act (AB2021). Some of the California Department of Food and Agriculture activities pertaining to ground water are part of this program.

AB 2021 requires the director of CDFA to:

- 1) not register or renew the registration of an economic poison (a pesticide specifically defined in Section 12753 of the California Administrative Code) with a ground water protection data gap (missing information on the chemical and environmental fate characteristics of an economic poison) after certain deadlines;
- 2) establish a list of economic poisons that have potential to pollute ground water, called the Groundwater Protection List;
- 3) perform a soil and ground water monitoring program;
- 4) establish and maintain a specified well sampling data base;
- 5) establish minimum requirements for well sampling that would apply to all agencies conducting sampling for pesticides after December 1, 1986.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/11/1979 and CONTINUING as of: 12/29/1987 (dates may be approximate).

KEYWORDS: administrative support, ground water monitoring, pertinent reports available, planning, site investigation, technical support, pesticide, AB2021, economic poison, protection list, sampling.

FOR DETAILS, CONTACT: John Sanders, Program Manager

PHONE: (916) 324-8916

This summary information was LAST VERIFIED on: 12/29/1987

California Department of Health Services; Division of Laboratories

Street address of Organization: 2151 Berkeley Way; Berkeley, CA 94704

PROGRAM: Hazardous Materials Laboratory

This program provides laboratory support for the California Hazardous Waste Management Program. Its objectives are to analyze hazardous waste and environmental samples (such as soil, sludge and water), to review data from other sources, and to offer consultation services as needed. These objectives include the analysis of analytical results for sites with potential or existing ground water contamination.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1975 and CONTINUING as of: 12/21/1987 (dates may be approximate).

KEYWORDS: pertinent reports available, technical support, laboratory, hazardous waste, samples, consultation.

FOR DETAILS, CONTACT: R. D. Stephens, Laboratory Chief

PHONE: 8-571-3003

This summary information was LAST VERIFIED on: 12/21/1987

California Department of Health Services; Environmental Health Division

Street address of Organization: 714 P Street; Sacramento, CA 95814

PROGRAM: Public Water Supply Branch - Small Water Systems

Local health departments, acting for the Department of Health Services (DHS), regulate public water systems with less than 200 service connections. The local health departments are charged with the responsibility to require the small water systems to comply with the Safe Drinking Water Act and regulations adopted for its implementation. A staff of sanitarians, located in the Department's Office of Local Environmental Health Programs (OLEHP), is funded by the federal Water Supervision Program Grant and provides direct assistance to counties for small water system surveillance, monitoring, and enforcement. This program is designed to stimulate, coordinate, and provide enforcement oversight to the local health departments in their small water systems activities. Should the counties be unable or unwilling to take adequate enforcement actions, the OLEHP staff are prepared to institute the required legal action to bring the small water systems into compliance with the Safe Drinking Water Act.

The Program's goals are four. The first is to establish and maintain an effective Small Water Systems Program to meet the Department's responsibilities through efficient management of the OLEHP Small Water Systems Program. Secondly, it seeks to develop and implement a specific workplan for the Small Water Systems Program that includes an effective compliance monitoring and reporting component for all small water systems in the state subject to the Safe Drinking Water Act. Thirdly, the program seeks to provide oversight of the small water system surveillance programs of the local health departments and to pursue when necessary administrative, civil or criminal actions against small water systems violating Safe Drinking Water Act requirements. Lastly, the program seeks to establish and maintain a cooperative program with maximum coordination with other Departmental personnel, the Small Water Systems Program Steering Committee and the local health departments.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 07/01/1976 and CONTINUING as of: 01/04/1988 (dates may be approximate).

KEYWORDS: administrative support, enforcement, ground water monitoring, permitting, planning, site inspection, site investigation, technical support, Title 22, water supply well, public health.

CONTINUED FROM: California Department of Health Services; Environmental Health Division
PROGRAM: Public Water Supply Branch - Small Water Systems

FOR DETAILS, CONTACT: Don Barnes, Program Coordinator - Small Water Systems
PHONE: (916) 322-2040

This summary information was LAST VERIFIED on: 01/04/1988

California Department of Health Services; Environmental Health Division; Public Water Supply Branch

Street address of Organization: 714 P Street, Room 692; Sacramento, CA 95814
Mailing address of Organization: P.O. Box 942732; Sacramento, CA 94234

PROGRAM: AB 1803 Monitoring Program for Organic Contaminants in Public Ground Water Drinking Supplies--Large Systems

This program was established by Assembly Bill 1803 to perform a screening of public water systems that use ground water sources to determine the presence of toxic organic chemicals. Based on the results of the initial screening, a more systematic monitoring program is implemented for each water system. The program for large water systems (those with 200 or more service connections) was initiated on January 1, 1984 and has been completed. In April 1986, the Department of Health Services issued a final report (Organic Chemical Contamination of Large Public Water Systems in California). Results from sampling about half (2,947) of the State's large-system wells showed that approximately 18 percent of these wells contain toxic organic chemicals, and approximately 6 percent have concentrations of chemicals above either a State "action level" or federally recommended "maximum contaminant level". Thirty-three different organic chemicals were found in this survey; the most frequently detected chemicals being tetrachlorethylene (PCE), trichloroethylene (TCE), dibromochloropropane (DBCP), and chloroform.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1984 and CONTINUING as of: 01/04/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, site inspection, technical support, AB1803, organic chemicals, screening, water supply well.

FOR DETAILS, CONTACT: Dave Storm, Chief, Monitoring and Evaluation

PHONE: (916) 323-6111

This summary information was LAST VERIFIED on: 01/04/1988

PROGRAM: AB 1803 Monitoring Program for Organic Contaminants in Public Ground Water Drinking Supplies--Small Systems

This program was established by Assembly Bill 1803 to perform screening of public water systems that use ground water sources to determine the presence of toxic organic chemicals. A more systematic monitoring program is implemented for each small public water system (those with less than 200 service connections).

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1986 and CONTINUING as of: 01/04/1988 (dates may be approximate).

KEYWORDS: allocates funds, ground water monitoring, site inspection, technical support, AB1803, organic chemicals, screening, water supply well.

FOR DETAILS, CONTACT: Dave Storm, Chief, Monitoring and Evaluation

PHONE: (916) 323-6111

This summary information was LAST VERIFIED on: 01/04/1988

PROGRAM: Domestic Drinking Water Enforcement and Compliance Program

The objective is to insure that all large water systems (200 service connections or more), are in compliance with all applicable state and federal laws and regulations to assure the delivery of a pure, wholesome and potable drinking water supply to the citizens of California. The program deals with ground water when it is used as a source of public drinking water and a pollution problem has been identified. Once a problem exists, the program insures that water from the polluted well is either treated or blended, or the well removed from service.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1916 and CONTINUING as of: 01/04/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, Title 22, drinking water, potable, blend, treat, water supply well.

FOR DETAILS, CONTACT: Cliff Sharpe, Section Chief for Field Operations

PHONE: (916) 323-6111

This summary information was LAST VERIFIED on: 01/04/1988

PROGRAM: Safe Drinking Water Bond Law, DHS

This law authorizes mutual, investor-owned or public water systems to receive benefits in the form of either grants or loans. These benefits are intended to fund any improvements necessary to bring a water system to minimum standards. Purchase of a water system and land deemed necessary was added to the law and is now included as an available benefit. An administrative fee of 4 percent of the amount loaned is charged on the loans. The loans are authorized by DWR, and the grants must be authorized by the legislature. The program provides funds for corrections of deficiencies in public drinking wells.

CONTINUED FROM: California Department of Health Services; Environmental Health Division; Public Water Supply BranchPROGRAM: Safe Drinking Water Bond Law, DHS

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 06/01/1976 and CONTINUING as of: 03/01/1988 (dates may be approximate).

KEYWORDS: allocates funds, planning, grants, loans, water supply systems, public drinking wells.

FOR DETAILS, CONTACT: Dan Corrigan, Program Manager

PHONE: 916-323-6111

This summary information was LAST VERIFIED on: 03/01/1988

PROGRAM: Standards Setting Program

This program sets drinking water standards and monitoring requirements. It monitors ground water as well as surface water directly and controls delivery of this water to consumers.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/07/1985 and CONTINUING as of: 03/01/1988 (dates may be approximate).

KEYWORDS: ground water modeling, technical support, drinking water standards, monitoring requirements.

FOR DETAILS, CONTACT: Dave Spath, Senior Sanitation Engineer

California Department of Health Services; Environmental Health Division

2151 Berkeley Way; Berkeley, CA 94704

PHONE: (415) 540-2172

This summary information was LAST VERIFIED on: 03/01/1988

PROGRAM: Title 22 Compliance Monitoring-Large Systems

This program requires water purveyors to monitor large public drinking water sources (200 connections or more) for specific constituents and drinking water quality parameters. They are required to submit all results to the nearest Department of Health-Public Water Supply Branch district office (there are 13). The district office then reviews the reports to check the water quality. If violations are found the district office will take appropriate actions. Records of these actions are maintained at the district offices.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1961 and CONTINUING as of: 01/04/1988 (dates may be approximate).

KEYWORDS: enforcement, ground water monitoring, permitting, Title 22, drinking water, water supply wells.

FOR DETAILS, CONTACT: Dave Storm, Chief, Monitoring and Evaluation

PHONE: (916) 323-6111

This summary information was LAST VERIFIED on: 01/04/1988

California Department of Health Services; Environmental Health Division; Public Water Supply Branch--Berkeley District

Street address of Organization: 2151 Berkeley Way; Berkeley, CA 94704

PROGRAM: Wastewater Reclamation

The program develops and adopts wastewater reclamation criteria. The reclamation criteria are intended to promote development of facilities that will satisfy water demand in California while assuring protection of public health. Appropriate surveillance and control of treatment facilities, distribution systems, and use areas is provided to avoid risk to public health. Precautions are taken to avoid direct public contact with reclaimed waters which do not meet the standards specified in Article 5 for nonrestricted recreational impoundments.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1908 and CONTINUING as of: 01/04/1988 (dates may be approximate).

KEYWORDS: site inspection, site investigation, technical support, wastewater reclamation, treatment, distribution systems, public health, recreational impoundments.

FOR DETAILS, CONTACT: Jim Crook,

PHONE: (415) 540-2174

This summary information was LAST VERIFIED on: 01/04/1988

STUDY: Santa Clara Private Well Monitoring Study

The study monitors private wells to assess the extent of contamination of ground water which is used as a source of drinking water. Samples are analyzed for coliform bacteria, nitrogen, organic chemicals, inorganic chemicals and radiochemical data. The study was undertaken in response to a request by the Board of Supervisors of Santa Clara County to find the location, extent and severity of ground water quality degradation.

GEOGRAPHIC COVERAGE: Santa Clara County

THIS ACTIVITY STARTED: 06/15/1986 and ENDED: 06/30/1987 (dates may be approximate).

KEYWORDS: ground water management, hydrogeology, project planning, studies extent of ground water pollution, studies ground water pollutant transport, private wells, coliform bacteria, nitrogen, organic chemicals, inorganic, radiochemical, degradation.

FOR DETAILS, CONTACT: Dick McMillan, Chief, North Coastal Region

PHONE: (415) 540-2158

This summary information was LAST VERIFIED on: 01/04/1988

California Department of Health Services; Toxic Substances Control Division

Street address of Organization: 400 P Street; Sacramento, CA 95814

Mailing address of Organization: P.O. Box 942732; Sacramento, CA 94234-7320

PROGRAM: Geology Unit

This program has two main goals:

1. Providing technical oversight of geologic field staff, geologic engineering and geohydrologic policy,
2. Gaining correction and adequate regulation of operating hazardous waste facilities as well as adequate design of proposed facilities through the permitting and enforcement processes.

The program includes these activities:

- a) Providing policy guidance and technical consultation related to site mitigation.
- b) Developing or sponsoring training on geotechnical issues.
- c) Reviewing task orders and remedial action plans for major sites.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/05/1981 and CONTINUING as of: 03/01/1988 (dates may be approximate).

KEYWORDS: site inspection, site investigation, technical support, geology, geohydrology, regulation, hazardous waste facilities, policy, guidance, site mitigation, remedial action plans.

FOR DETAILS, CONTACT: Elgar Stephens, Unit Chief

California Department of Health Services; Toxic Substances Control Division
400 P Street; Sacramento, CA 95814

mailing address: P.O. Box 942732; Sacramento, CA 94234-7320

PHONE: (916) 322-0472

This summary information was LAST VERIFIED on: 03/01/1988

PROGRAM: Hazardous Waste Information System

This program analyzes the needs of the DHS Toxics division, identifies potential system enhancements and implementation and maintains an on-line system for tracking the disposition of hazardous waste. Its subsystems contain information on transporters, facilities, and manifests. Permitting information will be added in the Fall of 1986, and enforcement tracking information will be added in 1987.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1982 and CONTINUING as of: 12/21/1987 (dates may be approximate).

KEYWORDS: administrative support, enforcement, ground water monitoring, permitting, site inspection, technical support, toxics, hazardous waste, treatment, transport, storage, disposal.

FOR DETAILS, CONTACT: Barbara Rohde, Management Services Technician

PHONE: (916) 324-0936

This summary information was LAST VERIFIED on: 12/21/1987

PROGRAM: Permit Program

The program permits hazardous waste facilities and their handling of hazardous substances.

The Department of Health Services (DHS) Hazardous Waste Management Program has two principal objectives which are mandated by the State's Hazardous Waste Control Law. These objectives include protection of public health and the environment within California. This program must be carried out in a manner that is at least as stringent as the Federal Resources Conservation and Recovery Act (RCRA) program and in accordance with all schedules specified under RCRA. The Permitting Sections within headquarters and the three regional offices of the DHS Toxic Substances Control Division achieve these objectives through the issuance of permits to facilities that treat, store, or dispose of hazardous wastes within the state. Each permit specifies the design, operation, closure and (in some cases) post-closure requirements that the facility must comply with. In addition, all closure plans received from those hazardous waste facilities currently in operation without a permit (interim status facilities) are reviewed and approved. Headquarter's permitting staff is responsible for the policy direction, guidance, technical assistance and program oversight to the regional offices necessary to implement the permitting program. Regional office permitting staff are responsible for reviewing permit applications for hazardous waste facilities and for preparation of the specific hazardous waste facility permits.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1983 and CONTINUING as of: 01/04/1988 (dates may be approximate).

KEYWORDS: administrative support, permitting, pertinent reports available, technical support, hazardous waste, RCRA, toxic substances, landfill.

FOR DETAILS, CONTACT: Sherri Park, Permit Management Unit Supervisor

PHONE: (916) 324-3752

This summary information was LAST VERIFIED on: 01/04/1988

PROGRAM: Regulation of Underground Storage Tanks that Store Hazardous Waste

This program regulates underground storage tanks which store hazardous waste.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1984 and CONTINUING as of: 01/04/1988 (dates may be approximate).

KEYWORDS: permitting, underground storage tanks, hazardous waste.

FOR DETAILS, CONTACT: Sherri Park, Permit Management Unit Supervisor

PHONE: (916) 324-3752

This summary information was LAST VERIFIED on: 01/04/1988

CONTINUED FROM: California Department of Health Services; Toxic Substances Control Division

PROGRAM: Site Evaluation Program (SEP)

Historically abandoned hazardous waste disposal sites are located and identified on a statewide basis. The need for cleanup at each site is assessed.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1980 and CONTINUING as of: 01/26/1988 (dates may be approximate).

KEYWORDS: site investigation, sep, site evaluation, hazardous waste, abandon.

FOR DETAILS, CONTACT: Don Plain, Program Manager

PHONE: (916) 445-6360

This summary information was LAST VERIFIED on: 01/26/1988

PROGRAM: Surveillance and Enforcement Program

This program ensures that hazardous wastes are disposed of in compliance with state and federal regulations. Reports are management oriented; statistical summaries of inspections conducted; violations noted; enforcement actions taken.

Files are kept in regional offices. Offices are located in Sacramento, Fresno, Berkeley and Los Angeles.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 11/19/1980 and CONTINUING as of: 02/17/1988 (dates may be approximate).

KEYWORDS: enforcement, ground water monitoring, pertinent reports available, site inspection, site investigation, technical support, hazardous wastes.

FOR DETAILS, CONTACT: Paul D. Blais, Chief, Surveillance and Enforcement Section

PHONE: (916) 322-8046

This summary information was LAST VERIFIED on: 02/17/1988

California Department of Health Services; Toxic Substances Control Division; Alternative Technology Section

Street address of Organization: 400 P Street; Sacramento, CA 95814

Mailing address of Organization: P.O. Box 942732; Sacramento, CA 94234-7320

PROGRAM: Alternative Technology Section

The program goal is to identify potential alternatives to land disposal of wastes in California and to promote development of viable alternatives to the fullest extent possible.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 09/01/1981 and CONTINUING as of: 03/01/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, ground water monitoring, permitting, pertinent reports available, planning, technical support, land waste disposal, alternative technology.

FOR DETAILS, CONTACT: Jan Radimsky, Supervising Waste Management Engineer

PHONE: (916) 324-1819

This summary information was LAST VERIFIED on: 03/01/1988

STUDY: Directory of Site Remediation Techniques

This study creates a directory, which will provide information on site remediation technologies to staff. The following items are stored in the directory: technology description, development status, costs and contacts.

The directory will be made available to interested parties to assist in the choice of techniques, which often affect ground water cleanup.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 04/01/1986 and ENDED: 08/01/1986 (dates may be approximate).

KEYWORDS: ground water cleanup, remediation.

FOR DETAILS, CONTACT: Mike Higgins, Waste Management Engineer

PHONE: (916) 322-8036

This summary information was LAST VERIFIED on: 12/21/1987

California Department of Health Services; Toxic Substances Control Division; Region 4

Street address of Organization: 245 West Broadway, Room 350; Long Beach, CA 90802

STUDY: California Department of Health Services Crafton-Redlands Ground Water Investigation

The extent of ground water contamination underlying the Crafton-Redlands area is characterized.

Ground water contamination was discovered in the area as part of a state-wide investigation conducted in conjunction with the California Department of Health Services (DOHS) in 1979. This investigation included testing of 137 wells that draw ground water from the Bunker Hill Basin in San Bernardino County (located in the south central region of the San Bernardino Valley Municipal Water District).

CONTINUED FROM: **California Department of Health Services; Toxic Substances Control Division; Region 4**
 STUDY: California Department of Health Services Crafton-Redlands Ground Water Investigation

Data examined as part of this study indicates the ground water is predominantly contaminated by Trichloroethylene (TCE) and Dibromochloropropane (DBCP). Sources of the contaminants are thought to originate from an airport, manufacturing facilities, dry cleaning plants and automotive repair shops within the northeastern area of the City of Redlands. In 1980, following the discovery of the ground water contamination, a number of municipal wells within the Crafton-Redlands area were closed. Since the closing of the wells, the City of Redlands has tapped alternate sources of water for municipal use. In addition, the Department of Health Services is providing technical assistance to help the city develop a wellhead treatment system.

GEOGRAPHIC COVERAGE: City of Redlands

THIS ACTIVITY STARTED: 01/01/1979 and CONTINUING as of: 08/07/1990 (dates may be approximate).

KEYWORDS: ground water cleanup, estimate impacts of ground water pollution, ground water management, ground water usage, hydrogeology, pertinent reports available, project planning, studies extent of ground water pollution, studies ground water pollutant transport, studies sources of pollution, contaminants, TCE, DBCP, crafton-redlands, ground water, wellhead treatment system.

FOR DETAILS, CONTACT: Chuck Hodge, Project Manager

PHONE: (213) 590-4856

This summary information was LAST VERIFIED on: 08/07/1990

STUDY: California Department of Health Services South Bay Area Study

The primary objectives of this study are: (a) to identify potential sources of ground water contamination in the study area, (b) to determine the fate and transport of contaminants, and (c) to use the information for enforcement against non-cooperative responsible parties.

GEOGRAPHIC COVERAGE: Los Angeles (2 mile radius, 405 & 110 freeways intersection)

THIS ACTIVITY STARTED: 01/01/1989 and CONTINUING as of: 08/07/1990 (dates may be approximate).

KEYWORDS: ground water cleanup, estimate impacts of ground water pollution, ground water management, ground water usage, hydrogeology, project planning, studies extent of ground water pollution, studies ground water pollutant transport, studies sources of pollution, ground water, contaminants, enforcement.

FOR DETAILS, CONTACT: John Scandura, Chief, Site Mitigation Branch

PHONE: (213) 590-4856

This summary information was LAST VERIFIED on: 08/07/1990

STUDY: California Department of Health Services North San Bernardino Ground Water Study

Potential sources of ground water contamination are identified. The extent of existing ground water contamination is characterized. Technical assistance is provided to the City of San Bernardino to assist their development of a wellhead treatment system.

GEOGRAPHIC COVERAGE: Northern Portion of the City of San Bernardino

THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 08/07/1990 (dates may be approximate).

KEYWORDS: ground water cleanup, estimate impacts of ground water pollution, ground water management, ground water usage, hydrogeology, pertinent reports available, project planning, studies extent of ground water pollution, studies ground water pollutant transport, studies sources of pollution, ground water, contamination, wellhead treatment system.

FOR DETAILS, CONTACT: Chuck Hodge, Project Manager

PHONE: (213) 590-4856

This summary information was LAST VERIFIED on: 08/07/1990

California Department of Health Services; Toxic Substances Control Division; Site Mitigation Section

Street address of Organization: 400 P Street; Sacramento, CA 95814

Mailing address of Organization: P.O. Box 942732; Sacramento, CA 94234-7320

PROGRAM: Hazardous Waste Site Cleanup (Superfund) Program

This program identifies, investigates and implements remedial action (site clean-up) at hazardous waste sites throughout the State. Cleanup may be carried out by state contractors, responsible parties, or federal agencies (i.e., EPA, military) through state-coordinated activities. The program implements California's responsibilities under the Federal Superfund Program.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1982 and CONTINUING as of: 02/04/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, ground water modeling, ground water monitoring, pertinent reports available, planning, site inspection, site investigation, technical support, state superfund, hazardous waste.

FOR DETAILS, CONTACT: Bob Borzelleri, Public Information Officer

PHONE: (916) 324-1789

This summary information was LAST VERIFIED on: 02/04/1988

California Department of Health Services; Toxic Substances Control Division; Southern California Office

Street address of Organization: 107 South Broadway, Room 7011; Los Angeles, CA 90012

PROGRAM: San Gabriel Basin Sites Investigation

In coordination with the US Environmental Protection Agency (EPA) and the state Regional Water Quality Control Board (RWQCB), this program will assist in the investigation of ground water contamination, identify possible sources of the contamination, provide temporary measures to prevent or eliminate public health impacts, and develop cleanup alternatives.

Under a state Superfund contract, a granular activated carbon treatment system will be constructed in the City of El Monte to treat contaminated ground water for potable use. Until construction is completed in late 1988, water is provided by an alternate hook-up with the San Gabriel Valley Water Company.

GEOGRAPHIC COVERAGE: San Gabriel Valley Basin

THIS ACTIVITY STARTED: 09/01/1983 and **CONTINUING** as of: 02/20/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, ground water monitoring, pertinent reports available, site inspection, site investigation, technical support, contamination, remedial investigation, feasibility study, interim remedial measures, public health impacts, state superfund, granular activated carbon.

FOR DETAILS, CONTACT: Hamid Saebfar, Project Manager

PHONE: (213) 620-2380

This summary information was **LAST VERIFIED** on: 02/20/1988

PROJECT: San Fernando Valley Ground Water Basins 1-4

The project identifies sources of organic solvent contamination of ground water in the San Fernando ground water basin, determines methods to treat the contaminated ground water, prevents the contribution of further contamination, and cleans up the contaminated ground water.

GEOGRAPHIC COVERAGE: Los Angeles, Burbank, Glendale, San Fernando, La Crescenta

THIS ACTIVITY STARTED: 01/01/1983 and may **END:** 01/01/1992 (dates may be approximate).

KEYWORDS: allocates funds, ground water cleanup, demonstration project, ground water modeling, ground water monitoring, pertinent reports available, planning, site investigation, organic solvent, treatment.

FOR DETAILS, CONTACT: Nestor Acedera, Supervising Waste Management Engineer

PHONE: (213) 620-2380

This summary information was **LAST VERIFIED** on: 02/23/1988

STUDY: Toxic Substances Control Study

The study evaluates project and site-specific information on 30 major ground water contamination sites, which are managed in conjunction with the applicable Regional Water Quality Control Board. The sites are EPA Superfund sites; RCRA and HWCA regulations apply.

GEOGRAPHIC COVERAGE: DHS Toxic Substances Southern California Section

THIS ACTIVITY CONTINUING as of: 03/01/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, estimate impacts of ground water pollution, ground water management, ground water usage, hydrogeology, project planning, studies extent of ground water pollution, studies ground water pollutant transport, studies sources of pollution, toxic substances, EPA superfund, RCRA, hwca.

FOR DETAILS, CONTACT: Nestor Acedera, Supervising Waste Management Engineer

PHONE: (213) 620-2380

This summary information was **LAST VERIFIED** on: 03/01/1988

California Department of Parks and Recreation; Gavilan District, Fremont Peak State Park

Mailing address of Organization: P.O. Box 1110; San Juan Bautista, CA 95045

PROGRAM: Fremont Peak State Park Small Water Supply Systems Monitoring

The community water system (consisting of less than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. The community supply spring is sampled every 3 years for minerals and organic compounds. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Fremont Peak State Park

THIS ACTIVITY STARTED: 01/01/1930 and **CONTINUING** as of: 12/14/1989 (dates may be approximate).

KEYWORDS: enforcement, ground water monitoring, water supply, organics, minerals, spring, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Maintenance Chief I

PHONE: (408) 623-4526

This summary information was **LAST VERIFIED** on: 12/14/1989

California Department of Water Resources; Central District

Street address of Organization: 3251 S St.; Sacramento, CA 95816

PROGRAM: Toxic Chemicals in Ground Water

Ground water toxic substances monitoring programs of other agencies are evaluated to determine the comprehensiveness of coverage. DWR activities emphasize geographical areas where insufficient data exist and data collection is not planned by other agencies. Previous and present land and chemical use information is used to select areas of high potential for contamination. Based on chemical use patterns and environmental behavior data, monitoring needs are determined. DWR's geological specialists identify and qualify suitable monitoring wells, and provide needed geological data. Water quality specialists conduct sampling as needed to fill data gaps and yield a comprehensive understanding of the toxic status of State ground water supplies. The program is fully coordinated with ground water monitoring activities of other agencies.

GEOGRAPHIC COVERAGE: DWR Central and San Joaquin Districts

THIS ACTIVITY STARTED: 07/01/1986 and CONTINUING as of: 01/28/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, planning, toxic chemicals, land use, data collection.

FOR DETAILS, CONTACT: R. P. Woodard, Chief, Water Quality and Reuse Section

PHONE: (916) 323-8896

This summary information was LAST VERIFIED on: 01/28/1988

STUDY: Delta Subsidence Investigation

This study involves the collection and evaluation of existing data and reports to determine causes of subsidence in the Delta. Satellite surveying of selected bench marks will be conducted to obtain an elevation datum and extensometers will be installed to differentiate between various causes of subsidence. Subsidence may be due to ground water withdrawal by man, oxidation and removal of organic soil, gas withdrawal, or tectonic movement.

GEOGRAPHIC COVERAGE: Sacramento-San Joaquin Delta

THIS ACTIVITY STARTED: 07/01/1985 and ENDED: 06/30/1987 (dates may be approximate).

KEYWORDS: ground water usage, hydrogeology, pertinent reports available, subsidence, elevation, organic soil, peat moss, gas withdrawal, tectonic movement.

FOR DETAILS, CONTACT: Carl Hauge, Study Manager

California Department of Water Resources; Division of Local Assistance
1025 P St.; Sacramento, CA 95814

PHONE: (916) 322-7164

This summary information was LAST VERIFIED on: 12/21/1987

California Department of Water Resources; Central District; Planning and Technical Services Branch

Street address of Organization: 3251 S Street; Sacramento, CA 95816

PROGRAM: Rural Counties Assistance

This program analyses present water needs and supplies, projects future water needs and evaluates water management alternatives for meeting supplemental water requirements. It looks at the potential of ground water supplies in the mountain counties and is quantity oriented, not quality oriented.

GEOGRAPHIC COVERAGE: Mountain Counties

THIS ACTIVITY STARTED: 01/04/1982 and CONTINUING as of: 12/30/1987 (dates may be approximate).

KEYWORDS: planning, management, need, supply.

FOR DETAILS, CONTACT: Art Winslow, Chief, Planning Section

California Department of Water Resources; Central District

3251 S St.; Sacramento, CA 95816

PHONE: (916) 323-8890

This summary information was LAST VERIFIED on: 12/30/1987

California Department of Water Resources; Central District; Planning Department

Street address of Organization: 3251 S Street; Sacramento, CA 95816

PROGRAM: Central California Water Management Program

This program analyses present water needs and supplies, projects future water needs, and analyses water management alternatives for meeting supplemental water requirements in the Department of Water Resource's Central District.

As an "umbrella" program, it administers and coordinates with other programs, projects and studies to carry out its objectives.

GEOGRAPHIC COVERAGE: DWR Central District

THIS ACTIVITY STARTED: 01/01/1977 and CONTINUING as of: 12/30/1987 (dates may be approximate).

KEYWORDS: administrative support, ground water modeling, ground water monitoring, pertinent reports available, planning, site inspection, site investigation, technical support, management, need, supply.

CONTINUED FROM: California Department of Water Resources; Central District; Planning Department
PROGRAM: Central California Water Management Program

FOR DETAILS, CONTACT: Art Winslow, Chief, Planning Section
California Department of Water Resources; Central District
3251 S St.; Sacramento, CA 95816
PHONE: (916) 323-8890

This summary information was LAST VERIFIED on: 12/30/1987

California Department of Water Resources; Central District; Surface and Ground Water Data Section

Street address of Organization: 3251 S Street; Sacramento, CA 95816

PROGRAM: Borrow Ponds Ground Water Monitoring

The program monitors both water levels and quality in borrow ponds and adjacent ground water wells. (A borrow pond is a previously excavated pit which has recharged with ground water; for example, there were 13 borrow pits left as a result of excavations of material used in construction of the Interstate 5 freeway which have since recharged with ground water and are now referred to as Borrow Ponds. Borrow ponds range in length from 1/4 mile to just over 1 mile, and are approximately 300 feet wide and about 25 feet deep).

The program seeks to determine if water in the borrow ponds are detrimental to surrounding agricultural lands, either due to seepage or poor water quality.

GEOGRAPHIC COVERAGE: Eastern periphery of Sacramento and San Joaquin Counties
THIS ACTIVITY STARTED: 07/01/1982 and CONTINUING as of: 12/21/1987 (dates may be approximate).
KEYWORDS: ground water monitoring, borrow ponds, pits, excavation, agriculture, seepage.

FOR DETAILS, CONTACT: Andrew Lee, Chief, Surface and Ground Water Data Section
PHONE: (916) 445-9172

This summary information was LAST VERIFIED on: 12/21/1987

PROGRAM: Soil Salinity Monitoring, Western Delta

The program documents ground water salinity conditions on the western Sacramento-San Joaquin Delta islands, and determines whether relationships exist between these ground water salinities and the surrounding channel water salinity. The information can be used to project future soil salinity conditions in the near surface soil zone (0-10 feet) and the effect it may have on agricultural land use.

GEOGRAPHIC COVERAGE: Sherman, Jersey, and Bradford Islands and Hotchkiss Tract
THIS ACTIVITY STARTED: 03/01/1968 and CONTINUING as of: 01/04/1988 (dates may be approximate).
KEYWORDS: ground water monitoring, salinity, delta, channel, soil, agriculture.

FOR DETAILS, CONTACT: Andrew Lee, Chief, Surface and Ground Water Data Section
PHONE: (916) 445-9172

This summary information was LAST VERIFIED on: 01/04/1988

California Department of Water Resources; Controller's Office; Bond Financing and Administration

Street address of Organization: 1416 Ninth St.; Sacramento, CA 95814
Mailing address of Organization: P.O. Box 942836; Sacramento, CA 94236-0001

PROGRAM: Safe Drinking Water Bond Law, DWR

This program provides financing for suppliers of local domestic water which have been identified as having violations of drinking water standards. Financing can be used for construction, improvement or rehabilitation of domestic water systems, water supply treatment works, and all or part of a distribution system.

The funding must be used to either treat water to make polluted water potable or provide alternatives to a contaminated source--this includes using ground water as an alternative to a surface water source, and deepening wells to find better water.

Applications are prioritized by the Department of Health Services according to relative drinking water deficiencies.

GEOGRAPHIC COVERAGE: All of California
THIS ACTIVITY STARTED: 06/08/1976 and CONTINUING as of: 01/27/1988 (dates may be approximate).
KEYWORDS: allocates funds, drinking water, water systems, water supply.

FOR DETAILS, CONTACT: Barbara Cross, Deputy Controller
PHONE: (916) 322-1571

This summary information was LAST VERIFIED on: 01/27/1988

PROGRAM: Water Conservation and Ground Water Recharge Facilities Loan Program (Proposition 44)

This program makes low interest loans to public agencies for voluntary, cost effective water conservation programs or projects and ground water recharge facilities. The program is funded by \$75 million of general obligation bond funds. The bond law which funds this program also funds the Agriculture Drainage Water Account, administered by the State Water Resources Control Board.

Ground water recharge facilities include percolation through basins, pits, ditches, well injection, etc.

CONTINUED FROM: California Department of Water Resources; Controller's Office; Bond Financing and AdministrationPROGRAM: Water Conservation and Ground Water Recharge Facilities Loan Program (Proposition 44)

References: Water Conservation and Water Quality Bond Law of 1986 (AB 1982, Costa); Proposition 44.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 06/03/1986 and CONTINUING as of: 02/18/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, site inspection, technical support, recharge, loans, bonds, conservation, prop 44.

FOR DETAILS, CONTACT: Barbara Cross, Deputy Controller

PHONE: (916) 322-1571

This summary information was LAST VERIFIED on: 02/18/1988

California Department of Water Resources; Division of Planning; Support Branch

Street address of Organization: 1416 9th St. - Room 235; Sacramento, CA 95814

Mailing address of Organization: P.O. Box 942836; Sacramento, CA 94236-0001

PROGRAM: Water Quantity and Quality Measurements Program

The program compiles, catalogs and maintains databases of ground water levels and quality and manages the databases of water well drillers' logs at the Districts.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1878 and CONTINUING as of: 03/21/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, planning, technical support, water well driller logs, catalogs, databases, levels, depth.

FOR DETAILS, CONTACT: Ed Ritchie, Chief, Water Resources Data Section

PHONE: (916) 445-7314

This summary information was LAST VERIFIED on: 03/21/1988

California Department of Water Resources; Northern and Central Districts (at Northern District); Water Management Branch

Street address of Organization: 2440 Main Street; Red Bluff, CA 96080

Mailing address of Organization: P.O. Box 607; Red Bluff, CA 96080

STUDY: Sacramento Valley Ground Water Study

The Sacramento Valley Ground Water Study (formerly W.A. 1200) will update and expand the recently completed US Geological Survey (USGS) National Aquifer Study and a previous USGS/Department of Water Resources (DWR) cooperative investigation published in DWR Bulletin 118/6, "Evaluation of Ground Water Resources: Sacramento Valley", which described valleywide ground water conditions prior to 1970. This study will contribute to our comprehensive understanding of ground water conditions in the 1970'S and early 1980's and will accumulate basic information on geologic conditions in the Redding Basin. The study is an outgrowth of the San Joaquin Valley Hydrologic Economic Modeling effort completed in 1982 by the San Joaquin District. The study name was changed from "Sacramento Valley Hydrologic/Economic Model Study" to its present title to reflect the current study's broader scope.

GEOGRAPHIC COVERAGE: Redding to the north edge of the Sac.-San Joaquin Delta

THIS ACTIVITY STARTED: 07/01/1983 and ENDED: 06/30/1989 (dates may be approximate).

KEYWORDS: ground water management, ground water usage, hydrogeology, pertinent reports available, studies ground water pollutant transport, economic.

FOR DETAILS, CONTACT: Phil Lorens, Chief of Water Management Branch, Project Manager

PHONE: (916) 527-6530

This summary information was LAST VERIFIED on: 12/21/1987

California Department of Water Resources; Northern District

Street address of Organization: 2440 Main St.; Red Bluff, CA 96080

Mailing address of Organization: P.O. Box 607; Red Bluff, CA 96080

PROGRAM: Northern California Water Management

The general objectives of this program are to:

- 1) Identify current and potential water management problems and develop action plans to solve these problems,
- 2) assess the availability of local surface, ground, and reclaimed water,
- 3) develop basinwide and regionwide long-range water management plans compatible with other regional plans, such as basin water quality control plans, and
- 4) obtain the information needed for integrated operation of local, federal and state water resource systems.

One-half to one-third of DWR Northern California Water Management-sponsored studies involve measuring ground water levels using quantity and/or quality criteria, as well as gathering additional knowledge such as regional geology and potential ground water problems.

GEOGRAPHIC COVERAGE: DWR Northern District

THIS ACTIVITY STARTED: 07/01/1980 and CONTINUING as of: 12/11/1987 (dates may be approximate).

CONTINUED FROM: California Department of Water Resources; Northern District
PROGRAM: Northern California Water Management

KEYWORDS: administrative support, allocates funds, ground water modeling, ground water monitoring, pertinent reports available, planning, management, level, depth, geology.

FOR DETAILS, CONTACT: Ralph Hinton, Program Coordinator

PHONE: (916) 527-6530

This summary information was LAST VERIFIED on: 12/11/1987

STUDY: Antelope Ground Water Study

This is a geohydrologic study whose goal is to obtain basic geology and ground water hydrology of the Antelope Ground Water area. The Tehema County Environmental Health Division found domestic well waters contaminated with high nitrates and bacteria. Since no baseline data exists, the study will locate and document approximately 150 wells in the study area for background water quality data, and serve as a tool in creating a model of ground water movement.

GEOGRAPHIC COVERAGE: 12 sq. mi. on east side of Sac. River adjacent to Red Bluff

PART OF A PROGRAM titled: Northern California Water Management

THIS ACTIVITY STARTED: 01/01/1985 and ENDED: 06/30/1987 (dates may be approximate).

KEYWORDS: hydrogeology, pertinent reports available, studies extent of ground water pollution, nitrates, bacteria.

FOR DETAILS, CONTACT: Jack McMillan, Study Manager

PHONE: (916) 527-6530

This summary information was LAST VERIFIED on: 12/21/1987

STUDY: Sierra Valley Ground Water Study

This study, created to monitor ground water withdrawal in the closed Sierra Valley Basin, was undertaken after a marked increase in pumping of valley ground water. This is due to a change in land ownership, begun in the late 70's, leading to substantial ground water use for irrigation.

The study will estimate a safe withdrawal yield. Mineral hot springs exist on the west side of the valley. Water quality sampling shows the concentrations of total dissolved solids may be migrating due to the pumping on the west side. Changes in water quality may cause problems for Sierra Valley ground water users. The main purpose of the study is to predict basin overdraft for the local management district.

GEOGRAPHIC COVERAGE: Sierra Valley

PART OF A PROGRAM titled: Northern California Water Management

THIS ACTIVITY STARTED: 07/01/1980 and ENDED: 06/30/1987 (dates may be approximate).

KEYWORDS: ground water management, ground water usage, hydrogeology, pertinent reports available, withdrawal yield, pumping, mineral hot springs, TDS, overdraft.

FOR DETAILS, CONTACT: Jack McMillan, Study Manager

PHONE: (916) 527-6530

This summary information was LAST VERIFIED on: 12/21/1987

California Department of Water Resources; Northern District; Planning Branch

Street address of Organization: 2440 Main St.; Red Bluff, CA 96080

Mailing address of Organization: P.O. Box 607; Red Bluff, CA 96080

PROGRAM: Water Quality Evaluations, Northern District

The objectives of this program are two-fold:

- 1) To investigate the quality of water supply resources of the State and incorporate water quality considerations in the Department of Water Resources' (DWR) water resource management plans;
- 2) To assist the Regional Water Quality Control Boards in formulating water quality control plans and in prescribing controls for significant waste discharges by providing data, technical assistance, and recommendations.

Coordination includes review of Boards' output for compatibility with DWR's water management plans;

The program investigates unusual water quality readings gathered from monitoring programs, responds to complaints, and makes recommendations to the appropriate agencies for mitigation or cleanup.

GEOGRAPHIC COVERAGE: DWR Northern District

THIS ACTIVITY STARTED: 01/01/1950 and CONTINUING as of: 02/04/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, planning, site inspection, site investigation, technical support, water supply resources, water quality control plans, waste discharges.

FOR DETAILS, CONTACT: Bob Steel, Chief, Water Quality and Biology Section

PHONE: (916) 527-6530

This summary information was LAST VERIFIED on: 02/04/1988

STUDY: Honey Lake Ground Water Basin Update

This study updates the Department of Water Resources database on the Honey Lake Ground Water Basin. Done in conjunction with the U.S. Soil Conservation Service, the study measures wells, collects well logs, draws ground water contour maps and hydrographs, and describes the occurrence and movement of ground water, possibly redefining the basin's boundaries.

CONTINUED FROM: California Department of Water Resources; Northern District; Planning Branch
STUDY: Honey Lake Ground Water Basin Update

The study pertains to pollutants in ground water in two ways; first, part of the update is to identify water quality in the ground water basin from previous water quality records. Second, the information regarding occurrence and movement of ground water may assist in future cleanup operations.

GEOGRAPHIC COVERAGE: Honey Lake Watershed

PART OF A PROGRAM titled: Northern California Water Management

THIS ACTIVITY STARTED: 07/01/1983 and **ENDED:** 06/30/1989 (dates may be approximate).

KEYWORDS: ground water usage, hydrogeology, pertinent reports available, well logs, depth, level.

FOR DETAILS, CONTACT: Glen Pearson, Chief, Ground Water Section

California Department of Water Resources; Northern District

2440 Main St.; Red Bluff, CA 96080

mailing address: P.O. Box 607; Red Bluff, CA 96080

PHONE: (916) 527-6530

This summary information was **LAST VERIFIED** on: 12/10/1988

California Department of Water Resources; Northern District; Water Quality and Biology Section

Street address of Organization: 2440 Main Street; Red Bluff, CA 96080

Mailing address of Organization: P.O. Box 607; Red Bluff, CA 96080

PROJECT: Bottle Rock Compliance Monitoring Project

The project monitors the quality of ground water near the town of Cobb to satisfy requirements of the California Energy Commission; these include identifying changes in water quality due to the operation of the Bottle Rock Power Plant.

Monitoring was stipulated as a necessary condition for the power plant's construction and operation, since the residents of Cobb and the surrounding area are concerned about potential ground water pollution.

GEOGRAPHIC COVERAGE: Cobb Area (in Lake County)

THIS ACTIVITY STARTED: 06/01/1979 and may **END:** 06/01/2009 (dates may be approximate).

KEYWORDS: demonstration project, ground water monitoring, site investigation, power plant, energy.

FOR DETAILS, CONTACT: Gerald Boles, Project Manager

PHONE: (916) 527-6530

This summary information was **LAST VERIFIED** on: 01/04/1988

California Department of Water Resources; Office of Water Conservation

Street address of Organization: 1416 Ninth Street; Sacramento, CA 95814

Mailing address of Organization: P.O. Box 942836; Sacramento, CA 94236-0001

PROGRAM: Agricultural Water Conservation

The objectives of Agricultural Water Conservation are to:

- 1) Work with the University of California Cooperative Extension Service, the United States Department of Agriculture, and other public and private entities to carry out voluntary, cost-effective irrigation management programs which primarily result in substantial water supply savings, or help solve local irrigation water management problems;
- 2) Transfer technology on how to use water (and the energy needed to apply it) more efficiently from the scientific community to agricultural water users and those who influence agricultural water use.
- 3) Develop cooperative working relationships with local water purveyors so that state level programs are useful to them;
- 4) Cooperate in conducting research to estimate quantities of water that can be conserved through improved irrigation management and the use of different varieties of crops and plants;
- 5) Educate students, water users, and those who influence water use in methods of efficient use of water.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1979 and **CONTINUING** as of: 03/01/1988 (dates may be approximate).

KEYWORDS: allocates funds, planning, technical support, agriculture, water conservation, UC cooperative extension, irrigation management, research, crops, plants, education.

FOR DETAILS, CONTACT: Edward Craddock, Branch Chief

PHONE: (916) 445-9958

This summary information was **LAST VERIFIED** on: 03/01/1988

California Department of Water Resources; San Joaquin District

Street address of Organization: 3374 East Shields Avenue; Fresno, CA 93726

PROGRAM: Reclamation of Water Supplies -- Wastewater and Desalinization

This program provides general information on desalting and water reclamation and continually updated technical and cost information needed to supplement water supplies of the State. It also coordinates Departmental reclamation and desalting activities and cooperates with local, other State and Federal agencies and universities in research and demonstration of technological advances to increase the reclamation and reuse of water at an acceptable cost and risk to public health.

The general objectives of this program are to evaluate and encourage where feasible the use of desalination processes and water reclamation to increase the fresh water supplies in California and to increase the use of non-potable water for non-potable uses.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 07/01/1958 and CONTINUING as of: 02/23/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, planning, technical support, wastewater, desalinization, salinity, reclamation, water supply, research, demonstration.

FOR DETAILS, CONTACT: Brian Smith,

PHONE: (209) 445-5487

This summary information was LAST VERIFIED on: 02/23/1988

PROGRAM: San Joaquin Valley Drainage Program

This program:

- 1) Provides data and information on agricultural waste waters for siting and designing facilities such as marshes, other wildlife habitat areas, desalting plants and irrigation reuse projects;
- 2) Will develop a salt management program in the San Joaquin Valley that can be achieved in an economic, coordinated manner with a minimum of adverse effects;
- 3) Determines impacts on the environment from various methods of disposal of agricultural waste water. Mapping is done to define the water, related drainage, and salt problems. Attention is given to perched water tables, whose constituents are indicative of any recent applications of pollutants to the surface.

GEOGRAPHIC COVERAGE: San Joaquin Valley

THIS ACTIVITY STARTED: 01/01/1960 and CONTINUING as of: 02/23/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, planning, site investigation, technical support, agriculture, waste water, marshes, wildlife habitat, desalting plant, irrigation reuse, salt management, drainage, perched.

FOR DETAILS, CONTACT: Victor McIntyre, Chief, Water Quality Program

PHONE: (209) 445-5372

This summary information was LAST VERIFIED on: 02/23/1988

PROGRAM: San Joaquin Valley Ground Water Investigation

The objective of the San Joaquin Valley study is to use a computer-based modeling system to predict how ground water levels and agricultural development would be affected under different possible future water supply scenarios. The models will be used to measure the hydrologic and economic impact of alternative projections of future water use. The information will be made available to water planners and will allow them to anticipate and avoid water problems valley growers could confront in the years ahead. Additionally, the ground water model will assist in planning for the use of ground water storage facilities and conjunctive use operation for additional imported surface water supplies. Using the model to plan for integration of additional imported surface water supplies with existing supplies will assist in selection of the most efficient water conservation/development alternatives.

GEOGRAPHIC COVERAGE: San Joaquin Valley

THIS ACTIVITY STARTED: 01/01/1980 and CONTINUING as of: 12/21/1987 (dates may be approximate).

KEYWORDS: administrative support, ground water modeling, pertinent reports available, planning, technical support, depths, levels, agriculture, economic, storage, conjunctive use, conservation, development.

FOR DETAILS, CONTACT: Arvey Swanson, Program Manager

PHONE: (209) 445-5181

This summary information was LAST VERIFIED on: 12/21/1987

PROGRAM: Water Quality Evaluations, San Joaquin District

The program has three objectives.

- 1) To investigate the quality of water supply resources of the State, assure incorporation of water quality considerations in the Department of Water Resources (DWR) water resources management plans, and provide other agencies with water quality information.
- 2) To assist the Regional Water Quality Control Boards (RWQCB's) in formulating water quality control plans and in prescribing controls for significant waste discharges by providing data, technical assistance, and recommendations. Coordination includes review of RWQCB's output for compatibility with DWR water management plans.
- 3) To evaluate ground water quality in areas where significant amounts of organic chemicals have been used to determine the degree of possible contamination or pollution. This includes monitoring areas not covered by other agencies, monitoring areas where more data is needed, and monitoring areas where data is needed for non-regulatory objectives.

CONTINUED FROM: California Department of Water Resources; San Joaquin District
PROGRAM: Water Quality Evaluations, San Joaquin District

GEOGRAPHIC COVERAGE: DWR San Joaquin District
THIS ACTIVITY STARTED: 07/01/1950 and CONTINUING as of: 02/23/1988 (dates may be approximate).
KEYWORDS: ground water monitoring, pertinent reports available, planning, site investigation, technical support, water quality control plans, waste discharges, organic chemicals.
FOR DETAILS, CONTACT: Victor McIntyre, Chief, Water Quality Program
PHONE: (209) 445-5372 This summary information was LAST VERIFIED on: 02/23/1988

California Department of Water Resources; Southern District; Operations Branch

Street address of Organization: 849 South Broadway, Suite 500; Los Angeles, CA 90014
Mailing address of Organization: P.O. Box 6598; Los Angeles, CA 90055

PROGRAM: The Watermaster Service, Southern District

The main objective of this program is to administer court orders limiting the use of ground water. It does this by:

- 1) Maintaining current records (monthly) of water extractions;
- 2) Recording leases and sales;
- 3) Testing water meters;
- 4) Monitoring water quality.

Annual reports are distributed.

GEOGRAPHIC COVERAGE: Los Angeles Coastal Plain
THIS ACTIVITY STARTED: 12/23/1944 and CONTINUING as of: 02/19/1988 (dates may be approximate).
KEYWORDS: administrative support, ground water monitoring, pertinent reports available, site investigation, technical support, adjudicate, extractions, use limits.
FOR DETAILS, CONTACT: Christian Nagler, Deputy Watermaster
PHONE: (213) 620-4119 This summary information was LAST VERIFIED on: 02/19/1988

California Department of Water Resources; Southern District; Planning Branch

Street address of Organization: 849 South Broadway, Suite 500; Los Angeles, CA 90014
Mailing address of Organization: P.O. Box 6598; Los Angeles, CA 90055

STUDY: Edna Valley Geohydrology and Ground Water Management Study

This study will develop a groundwater model for use in evaluation of basin groundwater management alternatives. A dependable ground water yield, for the basins will also be determined.

GEOGRAPHIC COVERAGE: San Luis Obispo Creek and Pismo Creek Basins
THIS ACTIVITY STARTED: 12/01/1987 and ENDED: 06/30/1990 (dates may be approximate).
KEYWORDS: ground water management, ground water usage, hydrogeology, pertinent reports available, model, management alternatives, dependable yield.
FOR DETAILS, CONTACT: Tak Ryono, Section Chief, Water Supply Evaluations
PHONE: (213) 620-2984 This summary information was LAST VERIFIED on: 03/25/1988

STUDY: Hydrologic Inventory of the San Jacinto Basin

This study conducts a hydrologic inventory for the San Jacinto Ground Water Basin, including a determination of natural water yield that can be utilized for water resources management. The study reassesses water supplies for both agricultural and urban uses, the percolation of applied water to ground water basins, and quantity extracted from the ground water reservoir. It also cites past studies of the basin as well as the development of the relationship between ground water storage and ground water elevations.

GEOGRAPHIC COVERAGE: San Jacinto Ground Water Basin
THIS ACTIVITY STARTED: 07/01/1985 and ENDED: 11/01/1986 (dates may be approximate).
KEYWORDS: ground water management, hydrogeology, pertinent reports available, hydrologic inventory, natural water yield, water supplies, agriculture, urban, percolation, elevations, level, depth.
FOR DETAILS, CONTACT: Tak Ryono, Section Chief, Water Supply Evaluations
PHONE: (213) 620-2984 This summary information was LAST VERIFIED on: 02/09/1988

STUDY: Inventory of Artificial Recharge Opportunities in Ventura

The State Water Resources Control Board (SWRCB) and the Department of Health Services (DHS) are looking for information regarding areas with high percolation capabilities to properly control pesticide application and the discharge of organics and heavy metals to land. Pertinent data will be collected and analyzed to generate the information needed by the above-mentioned agencies.

GEOGRAPHIC COVERAGE: Ventura County
THIS ACTIVITY STARTED: 07/01/1985 and ENDED: 06/30/1988 (dates may be approximate).

CONTINUED FROM: California Department of Water Resources; Southern District; Planning Branch
STUDY: Inventory of Artificial Recharge Opportunities in Ventura

KEYWORDS: ground water management, ground water usage, hydrogeology, pertinent reports available, studies sources of pollution, percolation, artificial recharge, pesticide application, discharge, organic chemicals, heavy metals.

FOR DETAILS, CONTACT: Tak Ryono, Section Chief, Water Supply Evaluations

PHONE: (213) 620-2984

This summary information was **LAST VERIFIED** on: 02/09/1988

STUDY: Los Osos Ground Water Management Plan

The study's basic purpose is to develop water management plans by use of a mathematical model. The model will be developed and calibrated by USGS with input by the Department of Water Resources. The study will develop basin water yield and will include geological and hydrologic data and projection of water demands and supplies.

GEOGRAPHIC COVERAGE: Los Osos Area

THIS ACTIVITY STARTED: 01/01/1985 and **ENDED:** 06/30/1988 (dates may be approximate).

KEYWORDS: ground water management, ground water usage, hydrogeology, pertinent reports available, project planning, math model, yield, projections, demands, supplies.

FOR DETAILS, CONTACT: Tak Ryono, Section Chief, Water Supply Evaluations

PHONE: (213) 620-2984

This summary information was **LAST VERIFIED** on: 03/02/1988

STUDY: San Bernardino-San Gorgonio Feasibility of Conjunctive Use with the State Water Project

The study objective, as stated in the contract signed by Department of Water Resources, San Bernardino Valley Municipal Water District and San Gorgonio Pass Water Agency in October 1982, is to develop a program that would use the ground water basin resources in conjunction with State Water Project (SWP) facilities to help meet the annual entitlement of the SWP.

Up to now, problems related to high ground water levels in the area of the Bunker Hill Basin, which began in 1980, have persisted. No feasible conjunctive use program involving physical storage of SWP water in the Bunker Hill Basin can be implemented until this condition has been brought under control.

GEOGRAPHIC COVERAGE: San Bernardino-San Gorgonio area

THIS ACTIVITY STARTED: 10/01/1982 and **ENDED:** 12/31/1986 (dates may be approximate).

KEYWORDS: ground water usage, hydrogeology, pertinent reports available, project planning, conjunctive use, entitlement.

FOR DETAILS, CONTACT: Chuck White, Chief, Operations Branch and Project Manager

PHONE: (213) 620-4135

This summary information was **LAST VERIFIED** on: 02/04/1988

California Department of Water Resources; Southern District; Resources Inventory Branch

Street address of Organization: 849 South Broadway, Suite 500; Los Angeles, CA 90014

Mailing address of Organization: P.O. Box 6598; Los Angeles, CA 90055

PROGRAM: Water Quantity and Quality Measurements, Southern District

This program conducts water quality studies and reviews activities that complement its water supply planning programs; these are coordinated with the Regional Water Quality Control Boards. The Department of Water Resources funds those studies that are necessary to serve its role in protecting, conserving, and managing the water resources of the State. Some studies are conducted under interagency agreements with the Regional Water Quality Control Boards.

GEOGRAPHIC COVERAGE: DWR Southern District

THIS ACTIVITY STARTED: 01/01/1954 and **CONTINUING** as of: 12/08/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water modeling, ground water monitoring, pertinent reports available, planning, site inspection, site investigation, technical support, review, protect, conserve, manage.

FOR DETAILS, CONTACT: Harry Iwanaga, Chief, Water Quality Section

PHONE: (213) 620-4836

This summary information was **LAST VERIFIED** on: 12/08/1988

California Environmental Affairs Agency

Street address of Organization: 1102 Q Street; Sacramento, CA 95814

PROGRAM: Environmental Affairs Agency

The Secretary of Environmental Affairs is the principal advisor on major policy and program matters relating to environmental protection. The Secretary serves as the principal communications link to the Governor regarding policy and programs related to the Air Resources Board, State Water Resources Control Board, and the California Waste Management Board.

The Secretary coordinates: the budget, proposed legislation, bill analyses, conference approvals, out-of-state travel, and any other subjects that require Cabinet Secretary review.

CONTINUED FROM: California Environmental Affairs Agency
PROGRAM: Environmental Affairs Agency

Ground water related activities, policies, and programs of the Air Board, Water Board, and Waste Board are reviewed and coordinated by this office.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1983 and CONTINUING as of: 08/20/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, planning, environment, air, water, waste, board, budget, legislation, bill analysis, coordination.

FOR DETAILS, CONTACT: Charles Shulock, Assistant to the Secretary for Policy Development

PHONE: (916) 324-8124

This summary information was LAST VERIFIED on: 08/20/1990

PROGRAM: Office of Hazardous Materials Data Management Help Desk

The Office of Hazardous Materials Data Management was established to improve the collection, management and distribution of toxics-related information. The Office provides a variety of products and services intended to make it easier to obtain and assemble toxics-related information from a wide range of sources.

The Help Desk is a central location for obtaining assistance on any hazardous substances-related question. It will guide requesters to available sources of pertinent information. The Help Desk is staffed between the hours of 9 a.m. and 4 p.m.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 07/01/1988 and CONTINUING as of: 08/20/1990 (dates may be approximate).

KEYWORDS: administrative support, pertinent reports available, planning, technical support, help desk, hazardous materials, toxic chemicals, data base management.

FOR DETAILS, CONTACT: Help Desk Staff

PHONE: (916) 327-1848

This summary information was LAST VERIFIED on: 08/20/1990

California Health and Welfare Agency

Street address of Organization: 1600 9th Street, Room 450; Sacramento, CA 95814

PROGRAM: Proposition 65 Notification Program

The initiative among other things states that no person in the course of business shall knowingly discharge or release a chemical known to the State to cause cancer or reproductive toxicity into water or onto land where such chemical passes or probably will pass into any source of drinking water, and establishes a mechanism for identifying chemicals known to the state to cause cancer or reproductive toxicity.

The initiative also requires designated employees to notify local Boards of Supervisors and health officers of illegal discharges or threatened illegal discharges of hazardous waste within 72 hours, and provides severe penalties when proper notification is not provided.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1987 and CONTINUING as of: 06/21/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, planning, site inspection, site investigation, technical support, prop 65, cancer, reproductive toxicity, drinking water, illegal discharges, hazardous waste.

FOR DETAILS, CONTACT: Jack Kearns, Chief, Toxic Substances Control Division

California Department of Health Services; Toxic Substances Control Division

400 P Street; Sacramento, CA 95814

mailing address: P.O. Box 942732; Sacramento, CA 94234-7320

PHONE: (916) 324-1826

This summary information was LAST VERIFIED on: 06/21/1988

California Regional Water Quality Control Board; Central Coast Region (3)

Street address of Organization: 1102A Laurel Ln; San Luis Obispo, CA 93401

PROGRAM: Toxic Waste Cleanup Sites Program, Region 3

The program has two unit. They are: 1. Spills or Cleanup involving Hazardous Waste, Pesticide Applicators, AB1803, and Underground Tanks (UGT); and 2. Subchapter 15, RCRA, Calderon, and Toxic Pits. The program includes enforcement, permitting, inspection, and monitoring. Technical reports are required of those that are regulated.

GEOGRAPHIC COVERAGE: RWQCB Region 3 (includes Santa Clara Cty. So. of Morgan Hill)

THIS ACTIVITY STARTED: 07/01/1982 and CONTINUING as of: 11/09/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, ground water modeling, ground water monitoring, permitting, pertinent reports available, site inspection, site investigation, technical support, spills, prevention, hazardous waste, RCRA, toxic pits, pesticide applicators, underground tanks, AB1803, Subchapter 15.

FOR DETAILS, CONTACT: Eric Gobler and Bob Baldrige, Land Disposal and Underground Tank Unit Supervisors

PHONE: (805) 549-3147

This summary information was LAST VERIFIED on: 11/09/1988

CONTINUED FROM: California Regional Water Quality Control Board; Central Coast Region (3)

PROGRAM: Waste Discharge Requirements

Waste Discharge Requirements (WDRs) are required for any party that discharges or will discharge waste that may affect surface or ground water quality. This includes discharges to surface waters, discharges to land, and underground injection. Dischargers to surface waters receive a WDR which also is a National Pollutant Discharge Elimination System (NPDES) permit. Typically, the discharger will apply to the Regional Water Quality Control Board for a WDR, describing the quantity, method of waste treatment, and type of discharge. The application is reviewed for conformance with the Basin Plan, Water Quality Standards, and other State and Federal policies. Comments are gathered from the public, after which the Requirements are issued.

Any interested party (e.g., the discharger, a citizen, an environmental group, or a government agency) may petition the State Water Resources Control Board to review the Regional Board's decision. The State Board will review the petition (if appropriate, the State Board will hold an optional evidentiary hearing) and issue an order regarding the petition.

WDRs must be reviewed periodically, depending on the threat to water quality. The discharger is required by law to notify the Regional Board when the quantity or nature of the discharge changes. Either of these actions may result in issuance of a new WDR for discharger.

A WDR pursuant to the California Code of Regulations, Title 23, Chapter 3, Subchapter 15 (which applies to surface impoundments, waste piles, landfills and land treatment facilities) would include the following factors: Closure/Post Closure Maintenance Plans, Leachate Collection and Removal Systems, Liner Designs, Monitoring Data, and Site Hydrogeology.

Ground water quality is monitored within the radius of influence of discharge to land and underground injection wells. Effluent is monitored where it may affect ground or surface water. The quality of surface waters are also monitored.

GEOGRAPHIC COVERAGE: RWQCB Region Three

THIS ACTIVITY STARTED: 07/01/1972 and CONTINUING as of: 12/12/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, site inspection, site investigation, waste discharge requirements, WDR, NPDES, Subchapter 15, landfills, land treatment, leachate.

FOR DETAILS, CONTACT: Jay Cano, Senior Water Resources Control Engineer

PHONE: (805) 549-3147

This summary information was LAST VERIFIED on: 12/12/1988

California Regional Water Quality Control Board; Central Valley Region (5)

Street address of Organization: 3443 Routier Road; Sacramento, CA 95827-3098

STUDY: Pesticide Rinsewater Facility Investigations

The study consisted of 2 parts:

- 1) Investigations of sites where disposal of pesticide rinsewater may be a problem; this includes some monitoring of soil and ground water. A previous study, done in 1979, serves as a foundation for this investigation.
- 2) Study of feasibility of onsite detoxification of pesticide wastes in soils.

GEOGRAPHIC COVERAGE: Selected Counties in RWQCB Region 5

THIS ACTIVITY STARTED: 01/01/1985 and ENDED: 07/01/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, estimate impacts of ground water pollution, hydrogeology, pertinent reports available, studies extent of ground water pollution, studies ground water pollutant transport, studies sources of pollution, pesticide, rinsewater, detoxification.

FOR DETAILS, CONTACT: John Menke, Project Director

PHONE: (916) 361-5600

This summary information was LAST VERIFIED on: 03/02/1988

California Regional Water Quality Control Board; Central Valley Region (5); Fresno Office

Street address of Organization: 3614 East Ashlan Ave.; Fresno, CA 93726

PROGRAM: Waste Discharge Requirements

Waste Discharge Requirements (WDRs) are required for any party that discharges or will discharge waste that may affect surface or ground water quality. This includes discharges to surface waters, discharges to land, and underground injection. Dischargers to surface waters receive a WDR which also is a National Pollutant Discharge Elimination System (NPDES) permit. Typically, the discharger will apply to the Regional Water Quality Control Board for a WDR, describing the quantity, method of waste treatment, and type of discharge. The application is reviewed for conformance with the Basin Plan, Water Quality Standards, and other State and Federal policies. Comments are gathered from the public, after which the Requirements are issued.

Any interested party (e.g., the discharger, a citizen, an environmental group, or a government agency) may petition the State Water Resources Control Board to review the Regional Board's decision. The State Board will review the petition (if appropriate, the State Board will hold an optional evidentiary hearing) and issue an order regarding the petition.

CONTINUED FROM: California Regional Water Quality Control Board; Central Valley Region (5); Fresno Office
PROGRAM: Waste Discharge Requirements

WDRs must be reviewed periodically, depending on the threat to water quality. The discharger is required by law to notify the Regional Board when the quantity or nature of the discharge changes. Either of these actions may result in issuance of a new WDR for discharger.

A WDR pursuant to the California Code of Regulations, Title 23, Chapter 3, Subchapter 15 (which applies to surface impoundments, waste piles, landfills and land treatment facilities) would include the following factors: Closure/Post Closure Maintenance Plans, Leachate Collection and Removal Systems, Liner Designs, Monitoring Data, and Site Hydrogeology.

Ground water quality is monitored within the radius of influence of discharge to land and underground injection wells. Effluent is monitored where it may affect ground or surface water. The quality of surface waters are also monitored.

GEOGRAPHIC COVERAGE: RWQCB Region Five (Fresno)

THIS ACTIVITY STARTED: 07/01/1972 and CONTINUING as of: 12/15/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, site inspection, site investigation, waste discharge requirements, WDR, NPDES, Subchapter 15, landfills, land treatment, leachate, injection wells.

FOR DETAILS, CONTACT: Shelton Gray,

PHONE: (209) 445-5116

This summary information was LAST VERIFIED on: 12/15/1988

California Regional Water Quality Control Board; Central Valley Region (5); Redding
Office

Street address of Organization: 415 Knollcrest Drive; Redding, CA 96002

PROGRAM: Waste Discharge Requirements

Waste Discharge Requirements (WDRs) are required for any party that discharges or will discharge waste that may affect surface or ground water quality. This includes discharges to surface waters, discharges to land, and underground injection. Dischargers to surface waters receive a WDR which also is a National Pollutant Discharge Elimination System (NPDES) permit. Typically, the discharger will apply to the Regional Water Quality Control Board for a WDR, describing the quantity, method of waste treatment, and type of discharge. The application is reviewed for conformance with the Basin Plan, Water Quality Standards, and other State and Federal policies. Comments are gathered from the public, after which the Requirements are issued.

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WDRs must be reviewed periodically, depending on the threat to water quality. The discharger is required by law to notify the Regional Board when the quantity or nature of the discharge changes. Either of these actions may result in issuance of a new WDR for discharger.

A WDR pursuant to the California Code of Regulations, Title 23, Chapter 3, Subchapter 15 (which applies to surface impoundments, waste piles, landfills and land treatment facilities) would include the following factors: Closure/Post Closure Maintenance Plans, Leachate Collection and Removal Systems, Liner Designs, Monitoring Data, and Site Hydrogeology.

Ground water quality is monitored within the radius of influence of discharge to land and underground injection wells. Effluent is monitored where it may affect ground or surface water. The quality of surface waters are also monitored.

GEOGRAPHIC COVERAGE: RWQCB Region Five (Redding)

THIS ACTIVITY STARTED: 07/01/1972 and CONTINUING as of: 12/08/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, site inspection, site investigation, waste discharge requirements, WDR, NPDES, Subchapter 15, landfills, land treatment, leachate, injection wells.

FOR DETAILS, CONTACT: James C. Pedri, Supervising Engineer

PHONE: (916) 224-4845

This summary information was LAST VERIFIED on: 12/08/1988

STUDY: Fecal Ground Water Contamination in Shasta and Tehama Counties

The study monitored 100+ wells to determine the impacts of septic tank systems on ground water quality. A final report was prepared which summarizes findings; pertinent data will be submitted for STORET entry.

GEOGRAPHIC COVERAGE: Cassel, Churn Creek, Verde Vale (S of Redding), Los Molinos

THIS ACTIVITY STARTED: 12/01/1985 and ENDED: 08/01/1986 (dates may be approximate).

KEYWORDS: estimate impacts of ground water pollution, pertinent reports available, studies extent of ground water pollution, studies sources of pollution, fecal contamination, septic tanks, leach fields.

FOR DETAILS, CONTACT: Staff

California Regional Water Quality Control Board; Central Valley Region (5)

3443 Routier Road; Sacramento, CA 95827-3098

PHONE: (916) 361-5600

This summary information was LAST VERIFIED on: 12/09/1987

California Regional Water Quality Control Board; Central Valley Region (5); Sacramento Office

Street address of Organization: 3443 Routier Road; Sacramento, CA 95827-3098

PROGRAM: Waste Discharge Requirements

Waste Discharge Requirements (WDRs) are required for any party that discharges or will discharge waste that may affect surface or ground water quality. This includes discharges to surface waters, discharges to land, and underground injection. Dischargers to surface waters receive a WDR which also is a National Pollutant Discharge Elimination System (NPDES) permit. Typically, the discharger will apply to the Regional Water Quality Control Board for a WDR, describing the quantity, method of waste treatment, and type of discharge. The application is reviewed for conformance with the Basin Plan, Water Quality Standards, and other State and Federal policies. Comments are gathered from the public, after which the Requirements are issued.

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WDRs must be reviewed periodically, depending on the threat to water quality. The discharger is required by law to notify the Regional Board when the quantity or nature of the discharge changes. Either of these actions may result in issuance of a new WDR for discharger.

A WDR pursuant to the California Code of Regulations, Title 23, Chapter 3, Subchapter 15 (which applies to surface impoundments, waste piles, landfills and land treatment facilities) would include the following factors: Closure/Post Closure Maintenance Plans, Leachate Collection and Removal Systems, Liner Designs, Monitoring Data, and Site Hydrogeology.

Ground water quality is monitored within the radius of influence of discharge to land and underground injection wells. Effluent is monitored where it may affect ground or surface water. The quality of surface waters are also monitored.

GEOGRAPHIC COVERAGE: RWQCB Region Five (Sacramento)

THIS ACTIVITY STARTED: 07/01/1972 and **CONTINUING** as of: 12/13/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, site inspection, site investigation, waste discharge requirements, WDR, NPDES, Subchapter 15, landfills, land treatment, leachate, injection wells.

FOR DETAILS, CONTACT: Deloris McConnell, Office Assistant II

PHONE: (916) 361-5600

This summary information was **LAST VERIFIED** on: 12/13/1988

STUDY: Class II-I Disposal Sites Study

This study conducts site investigations at waste disposal sites previously classed as II-1 to determine whether operation practices are protecting ground and surface water. The sites for which the investigation has been completed are Yolo County Central, IT Montezuma, IT Benson Ridge, Geothermal Inc., Foreward Inc., Altamont and Colusa County #1 and #2. Staff reports were prepared on each of these sites. The study results could lead to operational changes at the sites.

GEOGRAPHIC COVERAGE: RWQCB Region Five

PART OF A PROGRAM titled: Enforcement of Subchapter 15 Regulations

THIS ACTIVITY STARTED: 10/01/1982 and **ENDED:** 12/31/1986 (dates may be approximate).

KEYWORDS: estimate impacts of ground water pollution, hydrogeology, pertinent reports available, studies extent of ground water pollution, studies ground water pollutant transport, studies sources of pollution, Class II, waste disposal, SWAT, Calderon, TPCA, Subchapter 15, WDR.

FOR DETAILS, CONTACT: Dr. Jon B. Marshack, Environmental Specialist

PHONE: (916) 361-5724

This summary information was **LAST VERIFIED** on: 12/29/1987

STUDY: Hilmar Area Ground Water Study

This study monitors shallow domestic supply wells and drainage wells for electrical conductivity, nitrates, fumigants and pesticides. A report will be prepared that will describe actions needed to alleviate any problems.

GEOGRAPHIC COVERAGE: Merced and Stanislaus Counties around Hilmar

THIS ACTIVITY STARTED: 05/01/1986 and **ENDED:** 06/01/1987 (dates may be approximate).

KEYWORDS: estimate impacts of ground water pollution, ground water usage, pertinent reports available, studies extent of ground water pollution, studies sources of pollution, shallow domestic supply wells, drainage wells, electrical conductivity, nitrates, fumigants, pesticides.

FOR DETAILS, CONTACT: Jerry Bruns, Senior WRC Engineer

PHONE: (916) 361-5600

This summary information was **LAST VERIFIED** on: 03/10/1988

STUDY: Sacramento Urban Area Ground Water Study for Chemical Contaminants

This study monitors shallow wells in the Sacramento Urban Area to detect organic contaminants that pose a threat to deep well municipal water supply systems.

CONTINUED FROM: California Regional Water Quality Control Board; Central Valley Region (5); Sacramento Office

STUDY: Sacramento Urban Area Ground Water Study for Chemical Contaminants

GEOGRAPHIC COVERAGE: City of Sacramento

THIS ACTIVITY STARTED: 08/01/1986 and ENDED: 07/01/1987 (dates may be approximate).

KEYWORDS: estimate impacts of ground water pollution, pertinent reports available, studies extent of ground water pollution, studies sources of pollution, shallow wells, deep wells.

FOR DETAILS, CONTACT: Wendy Wyels, Associate Land & Water Use Analyst

PHONE: (916) 361-5699

This summary information was LAST VERIFIED on: 12/29/1987

California Regional Water Quality Control Board; Colorado River Basin Region (7)

Street address of Organization: 73-271 Hwy. 111, Suite 21; Palm Desert, CA 92260

PROGRAM: Upper Coachella Valley Ground Water Management Program

This program will develop a comprehensive ground water management plan for the Upper Coachella Valley. It will also monitor for pollution in the ground water basin and if found, will control and/or clean up the pollution.

GEOGRAPHIC COVERAGE: Upper Coachella Valley

THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 03/01/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, planning, site inspection, site investigation, technical support, ground water management.

FOR DETAILS, CONTACT: Jack Saluja, Project Manager

PHONE: (619) 346-7491

This summary information was LAST VERIFIED on: 03/01/1988

PROGRAM: Waste Discharge Requirements

Waste Discharge Requirements (WDRs) are required for any party that discharges or will discharge waste that may affect surface or ground water quality. This includes discharges to surface waters, discharges to land, and underground injection. Dischargers to surface waters receive a WDR which also is a National Pollutant Discharge Elimination System (NPDES) permit. Typically, the discharger will apply to the Regional Water Quality Control Board for a WDR, describing the quantity, method of waste treatment, and type of discharge. The application is reviewed for conformance with the Basin Plan, Water Quality Standards, and other State and Federal policies. Comments are gathered from the public, after which the Requirements are issued.

Any interested party (e.g., the discharger, a citizen, an environmental group, or a government agency) may petition the State Water Resources Control Board to review the Regional Board's decision. The State Board will review the petition (if appropriate, the State Board will hold an optional evidentiary hearing) and issue an order regarding the petition.

WDRs must be reviewed periodically, depending on the threat to water quality. The discharger is required by law to notify the Regional Board when the quantity or nature of the discharge changes. Either of these actions may result in issuance of a new WDR for discharger.

A WDR pursuant to the California Code of Regulations, Title 23, Chapter 3, Subchapter 15 (which applies to surface impoundments, waste piles, landfills and land treatment facilities) would include the following factors: Closure/Post Closure Maintenance Plans, Leachate Collection and Removal Systems, Liner Designs, Monitoring Data, and Site Hydrogeology.

Ground water quality is monitored within the radius of influence of discharge to land and underground injection wells. Effluent is monitored where it may affect ground or surface water. The quality of surface waters are also monitored.

GEOGRAPHIC COVERAGE: RWQCB Region Seven

THIS ACTIVITY STARTED: 07/01/1972 and CONTINUING as of: 12/15/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, site inspection, site investigation, waste discharge requirements, WDR, NPDES, Subchapter 15, landfills, land treatment, leachate, injection wells.

FOR DETAILS, CONTACT: Will Ponder, Section Chief, Operations and Compliance

PHONE: (619) 346-7491

This summary information was LAST VERIFIED on: 12/15/1988

California Regional Water Quality Control Board; Lahontan Region (6); South Lake Tahoe Office

Street address of Organization: 2092 Lake Tahoe Blvd.; South Lake Tahoe, CA 95731

Mailing address of Organization: P.O. Box 9428; South Lake Tahoe, CA 95731-2428

PROGRAM: Waste Discharge Requirements

Waste Discharge Requirements (WDRs) are required for any party that discharges or will discharge waste that may affect surface or ground water quality. This includes discharges to surface waters, discharges to land, and underground injection. Dischargers to surface waters receive a WDR which also is a National Pollutant Discharge Elimination System (NPDES) permit. Typically, the discharger will apply to the Regional Water Quality Control Board for a WDR, describing the quantity, method of waste treatment, and type of discharge. The application is reviewed for conformance with the Basin Plan, Water Quality Standards, and other State and Federal policies. Comments are gathered from the public, after which the Requirements are issued.

CONTINUED FROM: California Regional Water Quality Control Board; Lahontan Region (6); South Lake Tahoe Office

PROGRAM: Waste Discharge Requirements

Any interested party (e.g., the discharger, a citizen, an environmental group, or a government agency) may petition the State Water Resources Control Board to review the Regional Board's decision. The State Board will review the petition (if appropriate, the State Board will hold an optional evidentiary hearing) and issue an order regarding the petition.

WDRs must be reviewed periodically, depending on the threat to water quality. The discharger is required by law to notify the Regional Board when the quantity or nature of the discharge changes. Either of these actions may result in issuance of a new WDR for discharger.

A WDR pursuant to the California Code of Regulations, Title 23, Chapter 3, Subchapter 15 (which applies to surface impoundments, waste piles, landfills and land treatment facilities) would include the following factors: Closure/Post Closure Maintenance Plans, Leachate Collection and Removal Systems, Liner Designs, Monitoring Data, and Site Hydrogeology.

Ground water quality is monitored within the radius of influence of discharge to land and underground injection wells. Effluent is monitored where it may affect ground or surface water. The quality of surface waters are also monitored.

GEOGRAPHIC COVERAGE: RWQCB Region Six (South Lake Tahoe)

THIS ACTIVITY STARTED: 07/01/1972 and CONTINUING as of: 01/01/1989 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, site inspection, site investigation, waste discharge requirements, WDR, NPDES, Subchapter 15, landfills, land treatment, leachate, injection wells.

FOR DETAILS, CONTACT: Scott Ferguson, Water Resources Control Engineer

PHONE: (916) 544-3481

This summary information was LAST VERIFIED on: 01/01/1989

STUDY: Eagle Lake Index Station Primary Productivity and Ground Water Nutrient Monitoring Program

The objectives of the study were to accumulate long-term records to identify trends in water quality within Eagle Lake and adjacent ground water, to examine impacts of subsurface disposal systems on ground water and on nutrient enrichment of Eagle Lake, and to evaluate the implementation of recommendations contained in the Eagle Lake Basin Plan Update, August 1984.

Samples were collected and analyzed following a program of:

1. Monthly monitoring of eight domestic wells in the Spaulding Tract and Stones-Bengard subdivisions for nitrate-nitrogen, chloride, orthophosphate phosphorus, total coliform, and fecal coliform;
2. a one-time survey of 50 wells for bacterial contamination; and
3. sampling at the three lake index stations for water transparency, chlorophyll-a, phytoplankton abundance, and species identification.

Lahontan Regional Board staff prepared two annual reports, a third-year compendium report, and an addendum report detailing sampling locations, results, and conclusions for the program.

The ground water portion of the study was initiated in October 1983; the Index Station Primary Productivity part of the study terminated in July 1988.

GEOGRAPHIC COVERAGE: Eagle Lake Basin

THIS ACTIVITY STARTED: 10/01/1983 and ENDED: 07/10/1988 (dates may be approximate).

KEYWORDS: estimate impacts of ground water pollution, pertinent reports available, studies extent of ground water pollution, 205j-phase 1, ground water, nutrient monitoring, nitrate, chloride, orthophosphate phosphorus, coliform, bacterial contamination.

FOR DETAILS, CONTACT: Laurie Zander, Water Resource Control Engineer

PHONE: (916) 544-3481

This summary information was LAST VERIFIED on: 08/04/1988

STUDY: Ground Water Quality within the Lake Tahoe Basin

This study has four objectives:

1. Determine the degree of ground water nutrient contamination in the three major aquifers surrounding Lake Tahoe (Upper Truckee River, Trout Creek, and Ward Creek).
2. Quantify the amounts of water and associated nutrients entering Lake Tahoe via ground water from each of these three aquifers.
3. Assess the impact of these ground waters on the rate of eutrophication of Lake Tahoe using biological assaying techniques.
4. Outline mitigation methods where necessary to prevent further degradation of the ground waters in the Tahoe basin in the future.

GEOGRAPHIC COVERAGE: Lake Tahoe Basin

THIS ACTIVITY STARTED: 10/01/1985 and ENDED: 10/31/1987 (dates may be approximate).

KEYWORDS: estimate impacts of ground water pollution, ground water management, hydrogeology, pertinent reports available, project planning, studies extent of ground water pollution, studies ground water pollutant transport, nutrients, eutrophication, biological assay, mitigation.

FOR DETAILS, CONTACT: Dr. Stanford L. Loeb, Director, Ground Water Research Group

PHONE: (916) 583-5171

This summary information was LAST VERIFIED on: 03/01/1988

California Regional Water Quality Control Board; Lahontan Region (6); Victorville Office

Street address of Organization: 15428 Civic Drive - Suite 100; Victorville, CA 92392

PROGRAM: Waste Discharge Requirements

Waste Discharge Requirements (WDRs) are required for any party that discharges or will discharge waste that may affect surface or ground water quality. This includes discharges to surface waters, discharges to land, and underground injection. Dischargers to surface waters receive a WDR which also is a National Pollutant Discharge Elimination System (NPDES) permit. Typically, the discharger will apply to the Regional Water Quality Control Board for a WDR, describing the quantity, method of waste treatment, and type of discharge. The application is reviewed for conformance with the Basin Plan, Water Quality Standards, and other State and Federal policies. Comments are gathered from the public, after which the Requirements are issued.

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WDRs must be reviewed periodically, depending on the threat to water quality. The discharger is required by law to notify the Regional Board when the quantity or nature of the discharge changes. Either of these actions may result in issuance of a new WDR for discharger.

A WDR pursuant to the California Code of Regulations, Title 23, Chapter 3, Subchapter 15 (which applies to surface impoundments, waste piles, landfills and land treatment facilities) would include the following factors: Closure/Post Closure Maintenance Plans, Leachate Collection and Removal Systems, Liner Designs, Monitoring Data, and Site Hydrogeology.

Ground water quality is monitored within the radius of influence of discharge to land and underground injection wells. Effluent is monitored where it may affect ground or surface water. The quality of surface waters are also monitored.

GEOGRAPHIC COVERAGE: RWQCB Region Six (Victorville)

THIS ACTIVITY STARTED: 07/01/1972 and CONTINUING as of: 12/15/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, site inspection, site investigation, waste discharge requirements, WDR, NPDES, Subchapter 15, landfills, land treatment, leachate, injection wells.

FOR DETAILS, CONTACT: Curt Shifrer,

PHONE: (619) 241-6583

This summary information was LAST VERIFIED on: 12/15/1988

PROJECT: Cleanup of Degraded Ground Water Near Barstow

This project will directly clean up ground water by the following processes:

Extraction wells will be installed in the bed of the Mojave River, and the degraded ground water will be pumped out of the aquifer. The water will be carried 11 miles downstream in a pipeline east to the Southern California Edison Power Plant at Daggett, where it will then be used for cooling and ultimately disposed of in lined evaporation ponds in the Daggett area.

The plume of degraded ground water at Barstow was caused by many years of discharges from the Santa Fe Railroad and the City of Barstow. The constituents of the plume are dissolved solids, greases, diesel fuels and detergents.

The City of Barstow is also involved in this project.

GEOGRAPHIC COVERAGE: Mojave River at Barstow

THIS ACTIVITY STARTED: 01/01/1960 and may END: 01/01/1995 (dates may be approximate).

KEYWORDS: ground water cleanup, demonstration project, ground water monitoring, site investigation, cooling, pump, extraction wells, diesel fuels, detergents, dissolved solids, greases.

FOR DETAILS, CONTACT: Robert Dodds, Supervising WRC Engineer

California Regional Water Quality Control Board; Lahontan Region (6)

2092 Lake Tahoe Blvd.; South Lake Tahoe, CA 95731

mailing address: P.O. Box 9428; South Lake Tahoe, CA 95731-2428

PHONE: (619) 245-6583

This summary information was LAST VERIFIED on: 12/21/1987

California Regional Water Quality Control Board; Los Angeles Region (4)

Street address of Organization: 101 Centre Plaza Drive; Los Angeles, CA 91754-2156

PROGRAM: Waste Discharge Requirements

Waste Discharge Requirements (WDRs) are required for any party that discharges or will discharge waste that may affect surface or ground water quality. This includes discharges to surface waters, discharges to land, and underground injection. Dischargers to surface waters receive a WDR which also is a National Pollutant Discharge Elimination System (NPDES) permit. Typically, the discharger will apply to the Regional Water Quality Control Board for a WDR, describing the quantity, method of waste treatment, and type of discharge. The application is reviewed for conformance with the Basin Plan, Water Quality Standards, and other State and Federal policies. Comments are gathered from the public, after which the Requirements are issued.

CONTINUED FROM: California Regional Water Quality Control Board; Los Angeles Region (4)
PROGRAM: Waste Discharge Requirements

Any interested party (e.g., the discharger, a citizen, an environmental group, or a government agency) may petition the State Water Resources Control Board to review the Regional Board's decision. The State Board will review the petition (if appropriate, the State Board will hold an optional evidentiary hearing) and issue an order regarding the petition.

WDRs must be reviewed periodically, depending on the threat to water quality. The discharger is required by law to notify the Regional Board when the quantity or nature of the discharge changes. Either of these actions may result in issuance of a new WDR for discharger.

A WDR pursuant to the California Code of Regulations, Title 23, Chapter 3, Subchapter 15 (which applies to surface impoundments, waste piles, landfills and land treatment facilities) would include the following factors: Closure/Post Closure Maintenance Plans, Leachate Collection and Removal Systems, Liner Designs, Monitoring Data, and Site Hydrogeology.

Ground water quality is monitored within the radius of influence of discharge to land and underground injection wells. Effluent is monitored where it may affect ground or surface water. The quality of surface waters are also monitored.

GEOGRAPHIC COVERAGE: RWQCB Region Four

THIS ACTIVITY STARTED: 07/01/1972 and CONTINUING as of: 12/15/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, site inspection, site investigation, waste discharge requirements, WDR, NPDES, Subchapter 15, landfills, land treatment, leachate, injection wells.

FOR DETAILS, CONTACT: Jim Ross,

PHONE: (213) 266-7550

This summary information was LAST VERIFIED on: 12/15/1988

California Regional Water Quality Control Board; North Coast Region (1)

Street address of Organization: 1440 Guerneville; Santa Rosa, CA 95403

PROGRAM: 205(j) Groundwater Pollution by Pesticides on the Smith River Plains, Del Norte County

A hydrogeologic assessment of the Smith River Basin was deemed necessary to determine the long term fate of existing contamination. Analysis of agricultural use patterns in the area and computer modeling of the vadose zone is being done to track the movement of pesticides.

GEOGRAPHIC COVERAGE: Smith River Plains

THIS ACTIVITY STARTED: 01/01/1983 and CONTINUING as of: 11/08/1988 (dates may be approximate).

KEYWORDS: ground water modeling, ground water monitoring, pertinent reports available, planning, site inspection, site investigation, technical support, prevention, agricultural use.

FOR DETAILS, CONTACT: Susan Warner, Senior Engineering Geologist

PHONE: (707) 576-2220

This summary information was LAST VERIFIED on: 11/08/1988

PROGRAM: Waste Discharge Requirements

Waste Discharge Requirements (WDRs) are required for any party that discharges or will discharge waste that may affect surface or ground water quality. This includes discharges to surface waters, discharges to land, and underground injection. Dischargers to surface waters receive a WDR which also is a National Pollutant Discharge Elimination System (NPDES) permit. Typically, the discharger will apply to the Regional Water Quality Control Board for a WDR, describing the quantity, method of waste treatment, and type of discharge. The application is reviewed for conformance with the Basin Plan, Water Quality Standards, and other State and Federal policies. Comments are gathered from the public, after which the Requirements are issued.

Any interested party (e.g., the discharger, a citizen, an environmental group, or a government agency) may petition the State Water Resources Control Board to review the Regional Board's decision. The State Board will review the petition (if appropriate, the State Board will hold an optional evidentiary hearing) and issue an order regarding the petition.

WDRs must be reviewed periodically, depending on the threat to water quality. The discharger is required by law to notify the Regional Board when the quantity or nature of the discharge changes. Either of these actions may result in issuance of a new WDR for discharger.

A WDR pursuant to the California Code of Regulations, Title 23, Chapter 3, Subchapter 15 (which applies to surface impoundments, waste piles, landfills and land treatment facilities) would include the following factors: Closure/Post Closure Maintenance Plans, Leachate Collection and Removal Systems, Liner Designs, Monitoring Data, and Site Hydrogeology.

Ground water quality is monitored within the radius of influence of discharge to land and underground injection wells. Effluent is monitored where it may affect ground or surface water. The quality of surface waters are also monitored.

GEOGRAPHIC COVERAGE: RWQCB Region One

THIS ACTIVITY STARTED: 07/01/1972 and CONTINUING as of: 12/07/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, site inspection, site investigation, waste discharge requirements, WDR, NPDES, Subchapter 15, landfills, land treatment, leachate, injection wells.

CONTINUED FROM: California Regional Water Quality Control Board; North Coast Region (1)
PROGRAM: Waste Discharge Requirements

FOR DETAILS, CONTACT: Craig Johnson, Supervising Water Resources Control Engineer
PHONE: (707) 576-2220 This summary information was LAST VERIFIED on: 12/07/1988

PROJECT: Development of a Toxic and Hazardous Substances Control Program for the Russian River Project

The objectives of the project were to identify and implement control measures to reduce or prevent toxic or hazardous waste discharges to surface or ground waters in the Russian River Basin. The key elements of the project included:

1. Identify routes of transport and areas of storage, use, and discharge of toxic or hazardous materials;
2. Identify the chemicals used and the amounts transported and stored in the basin;
3. Determine whether the chemicals are being discharged, or are likely to be discharged, to surface or ground waters in the basin;
4. Determine average levels of chemicals above municipal water supply intakes in the Russian River;
5. Identify appropriate control measures to reduce or eliminate discharges; and
6. Implement control measures or practices.

The study involved inspections of a variety of light or "high tech" industrial sites within the Russian River Basin. The inspections identified seven problem areas, as follows:

1. Oil and hazardous spill contingency planning
2. Above ground tank storage
3. Underground tank storage
4. Servicing and refueling of equipment
5. Cleaning of equipment and parts
6. Cleaning and disposal of hazardous material containers
7. Vandalism protection

To deal with these problem areas, Best Management Practices will be implemented by the appropriate local agency.

GEOGRAPHIC COVERAGE: Russian River Basin
THIS ACTIVITY STARTED: 07/01/1983 and ENDED: 10/01/1987 (dates may be approximate).
KEYWORDS: ground water cleanup, ground water monitoring, pertinent reports available, site investigation, 205j-phase 1, toxic substances, hazardous waste, spills, underground tanks, bmp.
FOR DETAILS, CONTACT: Susan Warner, Senior Engineering Geologist
PHONE: (707) 576-2220 This summary information was LAST VERIFIED on: 08/02/1988

PROJECT: Smith River Ground Water Pesticides Study

Groundwater contamination by Aldicarb and 1,2-Dichloropropane resulting from pesticide use was detected in three principal areas within the six square mile area of the lower Smith River basin where lily bulbs are cultivated. A comprehensive monitoring and hydrologic assessment program was deemed necessary to determine the long-term fate of existing contamination and the risk of additional contamination from use of other pesticides. The lack of such an assessment program could allow contamination from use of the substituted pesticides to go undetected, and possibly further impair groundwater use as a domestic water supply.

This project established a monitoring well network to determine the groundwater flow gradients, rate of flow of the contaminants, and provide an early warning of any future contamination from use of new or different pesticides. The data gathered in this project may be used by the local agricultural commissioner as an aid to identifying preventative and remedial management measures and whether further measures can be taken to prevent additional contamination.

GEOGRAPHIC COVERAGE: Smith River Plains
THIS ACTIVITY STARTED: 02/01/1986 and ENDED: 05/30/1988 (dates may be approximate).
KEYWORDS: ground water modeling, ground water monitoring, pertinent reports available, planning, site investigation, aldicarb, 1,2-dichloropropane, hydrology, 205j.
FOR DETAILS, CONTACT: Susan Warner, Senior Engineering Geologist
PHONE: (707) 576-2220 This summary information was LAST VERIFIED on: 11/08/1988

California Regional Water Quality Control Board; San Diego Region (9)
Street address of Organization: 9771 Clairemont Mesa Blvd. - Suite B; San Diego, CA 92124

PROGRAM: Waste Discharge Requirements

Waste Discharge Requirements (WDRs) are required for any party that discharges or will discharge waste that may affect surface or ground water quality. This includes discharges to surface waters, discharges to land, and underground injection. Dischargers to surface waters receive a WDR which also is a National Pollutant Discharge Elimination System (NPDES) permit. Typically, the discharger will apply to the Regional Water Quality Control Board for a WDR, describing the quantity, method of waste treatment, and type of discharge. The application is reviewed for conformance with the Basin Plan, Water Quality Standards, and other State and Federal policies. Comments are gathered from the public, after which the Requirements are issued.

CONTINUED FROM: California Regional Water Quality Control Board; San Diego Region (9)
PROGRAM: Waste Discharge Requirements

Any interested party (e.g., the discharger, a citizen, an environmental group, or a government agency) may petition the State Water Resources Control Board to review the Regional Board's decision. The State Board will review the petition (if appropriate, the State Board will hold an optional evidentiary hearing) and issue an order regarding the petition.

WDRs must be reviewed periodically, depending on the threat to water quality. The discharger is required by law to notify the Regional Board when the quantity or nature of the discharge changes. Either of these actions may result in issuance of a new WDR for discharger.

A WDR pursuant to the California Code of Regulations, Title 23, Chapter 3, Subchapter 15 (which applies to surface impoundments, waste piles, landfills and land treatment facilities) would include the following factors: Closure/Post Closure Maintenance Plans, Leachate Collection and Removal Systems, Liner Designs, Monitoring Data, and Site Hydrogeology.

Ground water quality is monitored within the radius of influence of discharge to land and underground injection wells. Effluent is monitored where it may affect ground or surface water. The quality of surface waters are also monitored.

GEOGRAPHIC COVERAGE: RWQCB Region Nine

THIS ACTIVITY STARTED: 07/01/1972 and **CONTINUING** as of: 12/15/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, site inspection, site investigation, waste discharge requirements, WDR, NPDES, Subchapter 15, landfills, land treatment, leachate, injection wells.

FOR DETAILS, CONTACT: Bruce Posthumus,

PHONE: (619) 265-5114

This summary information was **LAST VERIFIED** on: 12/15/1988

STUDY: San Diego Region Ground Water Study

This study has two main parts. First, an in-depth water quality investigation will be done for selected ground water basins in the San Diego Region. Second, a survey of water quality will be done for most of the remaining basins in the region. There are approximately 130 basins, of which perhaps 12 will be the object of an in-depth investigation, but practically all of the remaining basins will be surveyed. The purpose of the study is to update water quality data for use in reviewing ground water quality standards in the existing RWQCB basin plan and to identify areas where wastewater reclamation is economical. Part one is geared toward ground water quality as it is affected by minerals and nutrients, not toxics. Part two is geared toward the future uses of the basins, past land use will be reviewed, future land use will be projected and various geographical data collected.

GEOGRAPHIC COVERAGE: RWQCB Region Nine

THIS ACTIVITY STARTED: 07/01/1982 and **ENDED:** 06/01/1989 (dates may be approximate).

KEYWORDS: ground water cleanup, estimate impacts of ground water pollution, ground water management, ground water usage, hydrogeology, studies extent of ground water pollution, studies sources of pollution, minerals, nutrients, land use, regional basin plans.

FOR DETAILS, CONTACT: Mike McCann, Contract Manager

PHONE: (619) 265-5114

This summary information was **LAST VERIFIED** on: 12/21/1987

California Regional Water Quality Control Board; San Francisco Bay Region (2)

Street address of Organization: 1800 Harrison Street, Suite 700; Oakland, CA 94612

PROGRAM: Waste Discharge Requirements

Waste Discharge Requirements (WDRs) are required for any party that discharges or will discharge waste that may affect surface or ground water quality. This includes discharges to surface waters, discharges to land, and underground injection. Dischargers to surface waters receive a WDR which also is a National Pollutant Discharge Elimination System (NPDES) permit. Typically, the discharger will apply to the Regional Water Quality Control Board for a WDR, describing the quantity, method of waste treatment, and type of discharge. The application is reviewed for conformance with the Basin Plan, Water Quality Standards, and other State and Federal policies. Comments are gathered from the public, after which the Requirements are issued.

Any interested party (e.g., the discharger, a citizen, an environmental group, or a government agency) may petition the State Water Resources Control Board to review the Regional Board's decision. The State Board will review the petition (if appropriate, the State Board will hold an optional evidentiary hearing) and issue an order regarding the petition.

WDRs must be reviewed periodically, depending on the threat to water quality. The discharger is required by law to notify the Regional Board when the quantity or nature of the discharge changes. Either of these actions may result in issuance of a new WDR for discharger.

A WDR pursuant to the California Code of Regulations, Title 23, Chapter 3, Subchapter 15 (which applies to surface impoundments, waste piles, landfills and land treatment facilities) would include the following factors: Closure/Post Closure Maintenance Plans, Leachate Collection and Removal Systems, Liner Designs, Monitoring Data, and Site Hydrogeology.

Ground water quality is monitored within the radius of influence of discharge to land and underground injection wells. Effluent is monitored where it may affect ground or surface water. The quality of surface waters are also monitored.

CONTINUED FROM: California Regional Water Quality Control Board; San Francisco Bay Region (2)
PROGRAM: Waste Discharge Requirements

GEOGRAPHIC COVERAGE: RWQCB Region Two

THIS ACTIVITY STARTED: 07/01/1972 and **CONTINUING** as of: 01/01/1989 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, site inspection, site investigation, waste discharge requirements, WDR, NPDES, Subchapter 15, landfills, land treatment, leachate, injection wells.

FOR DETAILS, CONTACT: Tom Mumley, Environmental Program Manager

PHONE: (415) 464-0962

This summary information was **LAST VERIFIED** on: 01/01/1989

PROJECT: RWQCB Region 2 Ground Water Basin Risk Assessment

This project is an application of the Site Priority Assessment Methodology (SPAM) described in the study by that name. Using data on wells, hydrogeology, and land use, documented spill sites in the Santa Clara Valley Ground Water Basin were assessed and a value assigned that describes each site's risk of ground water pollution. The results will assist with the update of the San Francisco Bay Basin Plan.

GEOGRAPHIC COVERAGE: RWQCB Region Two

PART OF A PROGRAM titled: 205j(1)

THIS ACTIVITY STARTED: 01/01/1983 and **ENDED:** 02/01/1985 (dates may be approximate).

KEYWORDS: demonstration project, ground water modeling, pertinent reports available, planning, site investigation, risk, spam, site priority, assessment, methodology, rank.

FOR DETAILS, CONTACT: Tom Mumley, Environmental Program Manager

PHONE: (415) 464-0962

This summary information was **LAST VERIFIED** on: 01/01/1989

STUDY: Ground Water Site Priority Assessment Methodology (SPAM)

The methodology allows Regional Board staff and others to easily and objectively assess the potential for ground water contamination at a given site. This is particularly useful for multi-site management. The method identifies and assigns values to factors that are normally considered subjectively in prioritizing sites. There are 3 components to the method:

- The Basin Model. This uses as input the number of municipal and private wells in the basin, pumping rates, an index based on the number of abandoned wells, surface geology, and basin hydrogeology.
- The Site Specific Model. Inputs are the numbers and locations of public and private wells at the site, different depths to ground water, soil permeability at the site, and abandoned wells at the site.
- The Toxicity Model. Inputs are the contaminant severity (toxicity, physical-chemical properties, magnitude of contamination), land use characteristics, location of potential polluters, etc.

Output from the method is a single number for each site that can be used to rank each site's potential for ground water pollution relative to the other sites.

GEOGRAPHIC COVERAGE: RWQCB Region Two

PART OF A PROGRAM titled: 205j(1)

THIS ACTIVITY STARTED: 01/01/1983 and **ENDED:** 02/01/1985 (dates may be approximate).

KEYWORDS: estimate impacts of ground water pollution, pertinent reports available, project planning, studies extent of ground water pollution, site priority, spam, rank, methodology, basin, site, risk, wells, pumping, depth, level, permeability, abandoned, contaminant.

FOR DETAILS, CONTACT: Tom Mumley, Environmental Program Manager

PHONE: (415) 464-0962

This summary information was **LAST VERIFIED** on: 01/01/1989

California Regional Water Quality Control Board; Santa Ana Region (8)

Street address of Organization: 6809 Indiana Ave, Suite 200; Riverside, CA 92506

PROGRAM: Waste Discharge Requirements

Waste Discharge Requirements (WDRs) are required for any party that discharges or will discharge waste that may affect surface or ground water quality. This includes discharges to surface waters, discharges to land, and underground injection. Dischargers to surface waters receive a WDR which also is a National Pollutant Discharge Elimination System (NPDES) permit. Typically, the discharger will apply to the Regional Water Quality Control Board for a WDR, describing the quantity, method of waste treatment, and type of discharge. The application is reviewed for conformance with the Basin Plan, Water Quality Standards, and other State and Federal policies. Comments are gathered from the public, after which the Requirements are issued.

Any interested party (e.g., the discharger, a citizen, an environmental group, or a government agency) may petition the State Water Resources Control Board to review the Regional Board's decision. The State Board will review the petition (if appropriate, the State Board will hold an optional evidentiary hearing) and issue an order regarding the petition.

WDRs must be reviewed periodically, depending on the threat to water quality. The discharger is required by law to notify the Regional Board when the quantity or nature of the discharge changes. Either of these actions may result in issuance of a new WDR for discharger.

CONTINUED FROM: California Regional Water Quality Control Board; Santa Ana Region (8)
PROGRAM: Waste Discharge Requirements

A WDR pursuant to the California Code of Regulations, Title 23, Chapter 3, Subchapter 15 (which applies to surface impoundments, waste piles, landfills and land treatment facilities) would include the following factors: Closure/Post Closure Maintenance Plans, Leachate Collection and Removal Systems, Liner Designs, Monitoring Data, and Site Hydrogeology.

Ground water quality is monitored within the radius of influence of discharge to land and underground injection wells. Effluent is monitored where it may affect ground or surface water. The quality of surface waters are also monitored.

GEOGRAPHIC COVERAGE: RWQCB Region Eight

THIS ACTIVITY STARTED: 07/01/1972 and CONTINUING as of: 12/15/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, site inspection, site investigation, waste discharge requirements, WDR, NPDES, Subchapter 15, landfills, land treatment, leachate, injection wells.

FOR DETAILS, CONTACT: Gary Stewart, Senior Water Resources Control Engineer

PHONE: (714) 782-4130

This summary information was LAST VERIFIED on: 12/15/1988

California State Polytechnic University; Environmental Health and Safety Office

Street address of Organization: 3801 W. Temple Ave.; Pomona, CA 91768

PROGRAM: California State Polytechnic University Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

The Environmental Health and Safety Office Coordinator, individual university departments, and facilities that handle hazardous materials submits to the city and county the University's plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: California State Polytechnic University Campus

THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 07/06/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, ground water monitoring, planning, site inspection, site investigation, technical support, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: David Patterson, Associate Director

PHONE: (714) 869-3695

This summary information was LAST VERIFIED on: 07/06/1990

California State Polytechnic University; Physical Plant Department

Street address of Organization: 3801 W. Temple Ave, Building 81; Pomona, CA 91768

PROGRAM: California State Polytechnic University Small Water Supply Systems Monitoring

The community water system (consisting of less than 200 service connections) is regularly sampled at random distribution points for total coliform concentration, nitrate levels, and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: California State Polytechnic University Campus

THIS ACTIVITY STARTED: 01/01/1970 and CONTINUING as of: 07/12/1990 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Earle Anderson, Associate Director

PHONE: (714) 869-3024

This summary information was LAST VERIFIED on: 07/12/1990

California State Water Resources Control Board and the 9 Regional Water Quality Control Boards

PROGRAM: Nonpoint Source Program

Pollution sources which are diffuse and/or not subject to regulation under the federal National Pollution Discharge Elimination System are called nonpoint sources of pollution. Nonpoint sources are a major contributor to the pollution of streams, lakes, marine waters, ground water basins, wetlands, and estuaries in California. Ground Water Basins and other waterbodies affected by nonpoint sources of pollution are identified in the State Board's Water Quality Assessment.

Regulatory authority to control nonpoint sources of pollution are implemented through waste discharge requirements. Management options include:

- Voluntary Best Management Practices (BMPs).
- Regulatory-based encouragement of BMPs.
- Effluent requirements.

Several activities are underway to control the primary nonpoint sources of pollution:

- Implement a water quality regulatory program that protects the State's waters from adverse impacts caused by subsurface agricultural drainage, specifically identifying and verifying the impacts of selenium and other trace elements.
- Provide low-interest loans to local agencies for projects (for example, construction of water treatment facilities) for controlling pollutants in agricultural drainage water.
- Assist land use and resource management agencies in the development and implementation of BMPs to prevent or reduce nonpoint sources of pollution due to silviculture, road construction, mining, recreation, vegetative manipulation, wildfire control, watershed management, and grazing on forest and rangeland watersheds.
- Develop a nonpoint source policy which will provide guidance to the Regional Boards and other State agencies in the administration of programs to prevent and control nonpoint source pollution.
- Participate on the interagency Pesticide Advisory Committee (PAC) and the Pesticide Registration and Evaluation Committee (PREC) which investigate pesticides found in ground water as a result of agricultural use.

Further information on these and other nonpoint source pollution activities can be found in:

- Section 319 of the federal Clean Water Act (February 1987)
- State of California Nonpoint Source Assessment Report (November 1988)
- State Board Resolution No. 88-123
- Nonpoint Source Pollution Policy document

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 10/01/1988 and CONTINUING as of: 08/29/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, ground water modeling, ground water monitoring, pertinent reports available, planning, site inspection, site investigation, technical support, nonpoint source, mining, agriculture, drainage, pesticide application, urban runoff, forest and rangeland, silviculture, grazing.

FOR DETAILS, CONTACT: Stan Martinson, Chief, Nonpoint Source Section
California State Water Resources Control Board; Division of Water Quality
901 P Street; Sacramento, CA 95814

mailing address: P.O. Box 944213; Sacramento, CA 94244-2130

PHONE: (916) 322-6576

This summary information was LAST VERIFIED on: 08/29/1990

California State Water Resources Control Board; Division of Clean Water Programs

Street address of Organization: 2014 T St; Sacramento, CA 95814

Mailing address of Organization: P.O. Box 944212; Sacramento, CA 94244-2120

PROGRAM: Clean Water Grants and Loans Program

The program objective is to provide state revolving fund loan assistance for the construction of publicly owned wastewater treatment works, nonpoint source, estuary, and storm drainage programs and projects needed to correct documented public health and water quality problems. Previously, the assistance was in the form of grants to individual communities. Roughly \$200 million per year in funds is available for loan assistance.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 10/18/1972 and CONTINUING as of: 07/20/1990 (dates may be approximate).

KEYWORDS: allocates funds, technical support, grants, loans, waste water treatment, public health.

FOR DETAILS, CONTACT: Eric Torguson, Chief, Management Support Section

PHONE: (916) 739-4357

This summary information was LAST VERIFIED on: 07/20/1990

PROGRAM: Enforcement of Subchapter 15 Regulations

The program regulates the discharge of hazardous, designated, and nonhazardous solid waste to surface impoundments, waste piles, landfills, and land treatment units for treatment, storage and disposal through issuance of Waste Discharge Requirements.

CONTINUED FROM: California State Water Resources Control Board; Division of Clean Water Programs
PROGRAM: Enforcement of Subchapter 15 Regulations

Principle elements of the program include:

- 1) Preparation of Waste Discharge Requirements (WDRs) for new facilities.
- 2) Revision and updating of WDRs for existing facilities.
- 3) Investigation of, and preparation of WDRs for, closed, inactive, and abandoned waste disposal facilities.
- 4) Processing requests for exemptions and waivers from Subchapter 15.
- 5) Review of hydrogeologic and other technical data related to liners, containment and leachate control features, ground water monitoring site hydrogeology, and closure/post-closure plans.
- 6) Preparation of Waste Discharger System input documents.

The program reviews and evaluates siting criteria (geology, depth to ground water, recency of faulting, etc.), constructed features (liners, leachate collection and removal systems, etc.), monitoring procedures, and closure procedures. It also regulates discharges of waste associated with confined animal facilities and mining.

Reference: Land Disposal Regulations, California Code of Regulations, Title 23, Chapter 3, Subchapter 15.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 03/02/1972 and CONTINUING as of: 09/25/1990 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, ground water modeling, ground water monitoring, permitting, site inspection, site investigation, technical support, title 23, Subchapter 15, land disposal, WDR, waste, exemptions, waivers, hydrogeology, containment and leachate control, closure/post-closure plans.

FOR DETAILS, CONTACT: Lisa Babcock, Chief, Subchapter 15 Unit

PHONE: (916) 739-4316

This summary information was LAST VERIFIED on: 09/25/1990

PROGRAM: Resource Conservation and Recovery Act (40 CFR 265 Subpart F and 264 Subpart F) Program

The Federal Resource Conservation and Recovery Act (RCRA) regulations require that owners of facilities that treat, store, or dispose of hazardous waste obtain RCRA permits for their activities. The Department of Health Services is designated the lead agency in California to administer the State's RCRA hazardous waste management program and receives EPA grant funding. In accordance with a Memorandum of Agreement with the DHS, the State Board is delegated responsibilities and receives funding through an annual interagency agreement to:

- (a) carry out a ground water monitoring and surveillance program pursuant to RCRA and develop regulations, standards, and guidelines
- (b) perform water quality-related review work to the extent necessary to provide DHS with information adequate to make a final determination on the issuance of permits (operation or closure) for facilities which involve land disposal; e.g., landfills, surface impoundments, land treatment units, and waste piles.

The program provides geological support to the Regional Boards for facility inspections and technical support for land disposal permit and closure activities.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 10/01/1982 and CONTINUING as of: 05/29/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water monitoring, planning, technical support, RCRA, review, guidelines.

FOR DETAILS, CONTACT: Lisa Babcock, Senior Engineering Geologist, RCRA Program Manager

PHONE: (916) 739-4316

This summary information was LAST VERIFIED on: 05/29/1990

PROGRAM: SWAT - Solid Waste Assessment Test Program

This program executes the State Water Resource Control Board's responsibilities under Water Code Section 13273. Those responsibilities are for the State Board to rank all solid waste disposal sites, active and inactive, based on the threat they may pose to water quality. Each rank consists of 150 solid waste disposal sites. Presently the list consists of 15 ranks containing 2242 sites. The State Board will also report to the Legislature describing the entire program in 1988, 1989, and 1990.

On or before July 1, 1987 the operators of the 150 solid waste disposal sites ranked first on the list were to submit a Solid Waste Water Quality Assessment Test (SWAT) to the appropriate Regional Board. On or before July 1 of each succeeding year thereafter the operators of each of the 150 solid waste disposal sites ranked next on the list should submit a SWAT Report. SWAT Reports contain a chemical analysis of the surface and ground water within one mile of the solid waste disposal site, and an analysis of the soil pore liquid in those areas which are likely to be affected by leakage or waste discharge.

The Regional Boards examine the SWAT Reports to determine if hazardous waste has migrated into the ground or surface water. If the Regional Board determines hazardous waste has in fact migrated into water, the Department of Health Services and the California Integrated Waste Management Board are notified, and appropriate enforcement actions are taken.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 12/19/1985 and CONTINUING as of: 08/20/1990 (dates may be approximate).

KEYWORDS: enforcement, ground water monitoring, pertinent reports available, planning, site inspection, site investigation, technical support, SWAT, Calderon, solid waste disposal, waste discharge, hazardous waste, pollution, soil-pore liquid.

CONTINUED FROM: California State Water Resources Control Board; Division of Clean Water Programs
PROGRAM: SWAT - Solid Waste Assessment Test Program

FOR DETAILS, CONTACT: John Adams, SWAT Program Manager
 PHONE: (916) 739-2728

This summary information was LAST VERIFIED on: 08/20/1990

PROGRAM: Toxic Pits Cleanup Act Program

The purpose of this program is to regulate surface impoundments containing hazardous wastes. The objectives of this program are to identify all facilities subject to the TPCA; ensure that all toxic pit owners/operators submit information as required by the TPCA; ensure that all toxic pit owners/operators meet the design, construction, monitoring, and closure requirements of the TPCA; ensure that toxic pit owners/operators fund the State and Regional Board staffs' activities under the TPCA; and ensure that hazardous waste surface impoundments do not contaminate the waters of the State.

Discharge to such impoundments must cease by certain statutory deadlines:

July 1, 1988 for facilities within 1/2 mile of a potential source of drinking water. Facilities within the 1/2 mile limit may remain open if granted an exemption by the Regional Board.

January 1, 1989 for facilities outside the 1/2 mile limit that do not meet certain construction standards. Sites outside the 1/2 mile limit that do not meet the construction standards may remain open if the site receives an exemption from the Regional Board.

Other provisions of the TPCA provide exemptions for pesticide applicators, mines, and powerplants.

All facilities subject to the TPCA must file a Hydrogeologic Assessment Report (HAR). Pesticide applicators requesting an exemption must file a Hydrogeologic Site Assessment Report (HSAR).

This program establishes and collects fees, develops regulations and guidelines, prepares reporting forms, and reviews HARs for facilities. The program also evaluates requests for exemptions and provides electronic data processing services as needed.

Reference: California Health and Safety Code Sections 25208 et. seq.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 07/27/1990 (dates may be approximate).

KEYWORDS: administrative support, enforcement, ground water monitoring, permitting, site inspection, site investigation, technical support, toxic pits, TPCA, fees, regulations, guidelines, hydrogeologic assessment, exemptions, drinking water, requirements, hazardous liquids, Katz.

FOR DETAILS, CONTACT: Jim Parsons, Toxic Pits Cleanup Program Manager

PHONE: (916) 739-4313

This summary information was LAST VERIFIED on: 07/27/1990

PROGRAM: Underground Storage Tank Program

The program protects groundwater quality from leaking underground containers that store motor vehicle fuels and other hazardous substances by preventing, detecting and correcting leaks. The State Water Resource Control Board is responsible for the following activities:

- 1) Inventory: In 1984 and 1985, the State Board completed a one-time only inventory of underground containers (tanks, sumps, etc.) in California storing hazardous substances. Over 170,000 containers, of which 150,000 are underground storage tanks, were inventoried. The inventory was used in compiling an underground storage tank database for local agency use in establishing a permit program.
- 2) Permit Program: Under AB1362 (Sher, Chapter 1046/83, amended 1984, 1985, 1986, 1987) 100 local implementing agencies (58 counties and 42 cities) are permitting underground storage tanks. The State Board developed regulations to implement the law in 1985. The regulations address construction and monitoring standards, closure requirements, and permitting requirements for both existing and new underground storage tanks. It is through the permit program that leak prevention and detection take place. Technical assistance is provided to local agencies on implementing the regulations.
- 3) Currently, over 13,500 leak sites have been detected. Cleanup and Enforcement: Provide resources and hydrogeological, engineering, and specialist technical support to Regional Boards and local agencies to oversee site cleanup, and work on appeal petitions to the State Board. A pilot program, using the State Hazardous Substance Cleanup Bond Fund and the Federal Petroleum Trust Fund, was established in 1987 for local agency oversight of cleanup by responsible parties.
- 4) Variances: Grant or revoke categorical variances.

A list of the counties and cities that implement a Permitting Program with a contact person for is available at the SWRCB Underground Storage Tank Unit. Local leak prevention and detection programs are carried out with the use of facility inspections, leak reporting, (possible) ground water inspection, containment procedures, permitting requirements, enforcement, and fees. They may maintain their own database.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1984 and CONTINUING as of: 05/30/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, ground water modeling, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, underground storage tank, hazardous substance.

FOR DETAILS, CONTACT: Mike McDonald, Environmental Program Manager I, Underground Storage Tank Program

PHONE: (916) 739-4352

This summary information was LAST VERIFIED on: 05/30/1990

CONTINUED FROM: California State Water Resources Control Board; Division of Clean Water Programs

STUDY: Chino Basin Water Reclamation Study - Trace Organics Demonstration Project

The study has a two-fold purpose: 1) to prepare a facilities plan for potential water reclamation projects in the Chino Ground Water Basin and 2) to investigate the effects and removal of trace organics and other constituents in treated waste water used for ground water recharge. Different levels of pretreatment are compared. The migration and removal of trace organics and other constituents in treated waste water as it percolates through the soil is also investigated.

GEOGRAPHIC COVERAGE: Chino Ground Water Basin

THIS ACTIVITY STARTED: 12/29/1978 and ENDED: 11/01/1986 (dates may be approximate).

KEYWORDS: ground water management, ground water usage, hydrogeology, project planning, studies ground water pollutant transport, pretreatment, recharge, percolation, reclamation, waste treatment, trace organics.

FOR DETAILS, CONTACT: Rich Mills, Water Resource Control Engineer

PHONE: (916) 739-4272

This summary information was LAST VERIFIED on: 03/10/1988

California State Water Resources Control Board; Division of Water Quality

Street address of Organization: 901 P Street; Sacramento, CA 95814

Mailing address of Organization: P.O. Box 944213; Sacramento, CA 94244-2130

PROGRAM: 205(j)(1) Water Quality Management Planning Program

Section 205(j)(1) of the Clean Water Act authorizes the Regional Administrator of the Environmental Protection Agency to provide water quality management planning grants to the states in an amount equal to one percent of their annual Clean Water Construction Grant. For California, this amount has been about \$1.5 to \$1.7 million per year, and should continue at that level through 1990. This program provides administrative and technical overview of water quality management planning projects funded with such grants. These projects, which address a wide variety of surface and ground water quality problems, are performed by State, local, and regional agencies, including units of the State and Regional Boards. Ninety-three water quality planning projects have been funded to date using federal funds released between 1982 and 1990.

Administration of the 205(j) projects includes:

- 1) Project proposal solicitation, evaluation, and implementation.
- 2) Program and project cost accounting.
- 3) Workplan and contract negotiation, execution, and amendment.
- 4) Workplan and contract performance compliance.
- 5) Technical oversight of projects.
- 6) Program accountability to EPA and compliance with Federal regulations in CFR Title 40 and State Administrative regulations.
- 7) Preparation of State Board information, public hearing, and State Board agenda items.
- 8) Project close-out with EPA.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 10/01/1982 and CONTINUING as of: 07/23/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water modeling, ground water monitoring, pertinent reports available, planning, site inspection, site investigation, technical support, 205j(1), water quality management, clean water planning grants, projects.

FOR DETAILS, CONTACT: Dale Watkins, Chief, Water Quality Planning Unit

PHONE: (916) 322-2867

This summary information was LAST VERIFIED on: 07/23/1990

PROGRAM: Ground Water Quality Protection Strategy Follow-up

This program executed the responsibility given via a March 16, 1984, letter to EPA from Gordon Duffy, California Secretary for Environmental Affairs, designating the State Board as lead agency for developing a comprehensive ground water quality protection strategy. The strategy was developed with participation from Regional Boards, other State agencies, and local agencies with ground water responsibilities. The development was funded by the state and a grant from the Environmental Protection Agency.

The strategy first reviews and confirms state goals and policies regarding ground water quality. It then evaluates ground water quality problems, ground water quality protection needs, and the satisfaction of those needs by existing programs. The strategy concludes by recommending actions to correct identified deficiencies. The strategy will be reviewed periodically.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 07/01/1985 and CONTINUING as of: 07/13/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, pertinent reports available, planning, technical support, strategy, protection.

FOR DETAILS, CONTACT: Ron Duff, Chief, Ground Water Unit

PHONE: (916) 322-6990

This summary information was LAST VERIFIED on: 07/13/1990

CONTINUED FROM: California State Water Resources Control Board; Division of Water Quality

PROGRAM: Lake Tahoe Program

The program's goal is to coordinate the activities at all federal, state, and local agencies devoted to the protection of Lake Tahoe, and to assist the Bi-State Tahoe Regional Planning Agency in modifying and enhancing the Regional Plan and in amending the interim Water Quality Management (208) Plan.

GEOGRAPHIC COVERAGE: Lake Tahoe Basin

THIS ACTIVITY STARTED: 01/01/1979 and CONTINUING as of: 08/30/1990 (dates may be approximate).

KEYWORDS: planning, technical support, basin plan, erosion control, demonstration, research, coordinate, regional plan, bi-state, burton-santini.

FOR DETAILS, CONTACT: Gita Kapahi, Tahoe Regional Planning Agency Liaison

PHONE: (916) 324-5651

This summary information was LAST VERIFIED on: 08/30/1990

PROGRAM: Pesticides Registration and Evaluation Program (terminated)

The Pesticide Contamination Prevention Act of September, 1985, is intended to prevent contamination of ground water with pesticides, their degradation products, and other ingredients in formulated products from agricultural use. It requires the Department of Food and Agriculture to collect data on physical and chemical properties and environmental fate characteristics of agriculturally registered pesticides. Based on this data, the pesticides are prioritized for soil and ground water monitoring in areas of high use. When a pesticide is detected in ground water or in soil below eight feet, the three-member committee of Department of Food and Agriculture, State Board, and Department of Health Services staffs holds a hearing on the issue and make recommendations to the Department of Food and Agriculture Director on the future use of the pesticide.

The Pesticides Registration and Evaluation Program (historically, since the program has been terminated):

- 1) screens all the pesticides which enter the Department of Food and Agriculture (DFA) registration process (over 1000/year);
- 2) flags pesticides which have potential adverse water quality impacts and conducts in-depth studies of these pesticides, formulates mitigation measures, makes recommendations to the Department of Food and Agriculture and other agencies;
- 3) helps the Regional Water Quality Control Boards and other units of the State Water Resources Control Board with their assessment of pesticide use.

Reference: AB 2021 (1985, Pesticide Contamination Prevention Act).

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 07/01/1981 and ENDED: 10/01/1989 (dates may be approximate).

KEYWORDS: allocates funds, ground water modeling, ground water monitoring, pertinent reports available, planning, site investigation, technical support, pesticide registration, mitigation, agriculture.

FOR DETAILS, CONTACT: Syed Ali, Ph.D., Staff Toxicologist

PHONE: (916) 323-7609

This summary information was LAST VERIFIED on: 08/02/1990

PROGRAM: Priority Chemicals Program (terminated)

In 1981 the State Board's Toxics Special Project (more recently named the Investigations Branch in the Division of Water Quality) developed a list of priority chemicals for in-depth investigation and reports to the Board. This list is periodically updated. A typical investigation includes a sampling program to clarify environmental occurrence, a review of toxicological and environmental fate literature, and development of appropriate recommendations for mitigating measures for the State and Regional Boards and other agencies, including proposed water quality criteria. Those studies that affect ground water require ground water sampling.

As of October 1987, chemicals currently under investigation include mono- and polycyclic aromatic hydrocarbons (MAH and PAH), phthalic acids, tributyltin, mercury, and chlorinated dibenzodioxins and dibenzofurans (as contaminants in wood preservatives). Completed studies include toxaphene, polychlorinated biphenyls (PCBs), 1,2-dichloropropane/1,3-dichloropropene (1,2-D/1,3-D), ethylene dibromide (EDB), endosulfan, rice herbicides (Ordram and Bolero), malathion, glyphosate (Roundup), and 2,4-dichloro- phenoxyacetic acid (2,4-D).

As of September 9, 1988 this program was terminated.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1981 and ENDED: 09/09/1989 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, planning, technical support, priority chemicals, toxics, mitigation, fate, recommend.

FOR DETAILS, CONTACT: Paul Lillebo, Environmental Specialist IV

PHONE: (916) 445-2773

This summary information was LAST VERIFIED on: 07/18/1990

PROGRAM: Program Support

The Program Support Unit's responsibilities include technical review of appeals to the State Water Resources Control Board (SWRCB), management overview of the NPDES and non-Subchapter 15 Waste Discharge Requirements, core regulatory programs (NPDES permits, waste discharge requirements, compliance inspections, self monitoring review, and enforcement), which are performed at the Regional Water Quality Control Boards (RWQCB's).

CONTINUED FROM: California State Water Resources Control Board; Division of Water Quality
PROGRAM: Program Support

Waste Discharge Requirements (WDRs) for the protection of ground water quality are required to discharge waste to land. WDRs contain self-motivating requirements including sampling and analysis of discharge effluent and receiving waters.

For most appeals to the SWRCB, a technical report is generated; copies of all appeals are filed. To obtain copies of these reports for in-house viewing, or for photo-copy costs, call the contact person.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1969 and CONTINUING as of: 07/30/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, permitting, site inspection, site investigation, technical support, appeals, reviews, NPDES program overview, waste discharge orders, WDR.

FOR DETAILS, CONTACT: John Youngerman, Chief, Program Support Unit

PHONE: (916) 322-0207

This summary information was LAST VERIFIED on: 07/30/1990

PROGRAM: Quality Assurance Management Program

The objective of this program is to develop guidelines that will assure, assess, and document adequacy of data generated from environmentally related State and Regional Board projects. The program addresses all aspects of environmental research and monitoring including project design, sampling protocols, statistical procedures, and data analysis and presentation. Once developed, the guidelines will be used to implement a State and Regional Board Quality Assurance Management Program which will include training for appropriate personnel.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 03/01/1986 and CONTINUING as of: 07/23/1990 (dates may be approximate).

KEYWORDS: technical support, quality assurance, quality control.

FOR DETAILS, CONTACT: Charles Fischer, Program Manager, Quality Assurance Program

PHONE: (916) 322-5861

This summary information was LAST VERIFIED on: 07/23/1990

PROGRAM: Underground Injection Control Program Coordination

The federally mandated Underground Injection Control (UIC) Program regulates the use of injection wells for disposal of waste through authorities provided in the federal Safe Drinking Water Act. California does not have UIC primacy except for Class II (oil/gas production) injection wells; therefore, UIC permits are issued by EPA. In California, Class I, III, IV, and V injection wells may be also regulated by waste discharge requirements (WDRs), issued by the Regional Water Quality Control Boards (RWQCBs), in addition to the EPA-issued UIC permits. However, regulating Class I injection wells disposing of hazardous wastes is the lead responsibility of the Department of Health Services in California. The regulation of Class II oil and gas production-related injection-wells and certain Class V geothermal wells are the lead responsibility of the Division of Oil and Gas within the Department of Conservation in California.

For injection wells regulated by a RWQCB, reports of waste discharge (discharge applications) and any monitoring information for underground injection facilities are stored in the Waste Discharger Files at each RWQCB. Limited discharge information may be available from the automated Waste Discharge System (WDS) that is maintained by the RWQCBs/SWRCB. Additional information is maintained at the other State and federal agencies mentioned.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 08/01/1967 and CONTINUING as of: 07/09/1990 (dates may be approximate).

KEYWORDS: enforcement, ground water monitoring, permitting, pertinent reports available, site inspection, injection wells, waste disposal, hazardous waste, oil, gas, WDR.

FOR DETAILS, CONTACT: Ron Duff, Senior Engineer

PHONE: (916) 322-6990

This summary information was LAST VERIFIED on: 07/09/1990

PROGRAM: Waste Discharge Requirements Overview

The program overviews Regional Board activities associated with permitting, compliance, and enforcement by the nine Regional Water Quality Control Boards. Waste Discharge Requirements issued by the Regional Control Boards (see separate records in the California Ground Water Program Information Directory) form the basis for this program.

Waste Discharge Requirements are required for any party that engages in an activity that discharges or will discharge waste that may affect ground water quality. This includes discharges to surface waters, discharges to land and underground injection.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 12/01/1985 and CONTINUING as of: 08/02/1990 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, ground water monitoring, permitting, site inspection, technical support, waste discharge, requirements, WDR, underground injection, NPDES.

FOR DETAILS, CONTACT: Don Perrin, Chief, Regulatory Unit

PHONE: (916) 324-1251

This summary information was LAST VERIFIED on: 08/02/1990

CONTINUED FROM: California State Water Resources Control Board; Division of Water Quality

PROGRAM: Water Quality Basin Planning Program

The Division of Water Quality's Basin Planning Unit is the lead State Board organization for the administrative processing and technical evaluation of all amendments to California's Regional Water Quality Control Plans (Basin Plans). Amendments to the Basin Plans are adopted by individual Regional Water Quality Control Boards (Regional Boards) as needed, before being submitted to the State Board for final approval. Every three years, each responsible Regional Board conducts a public review process (Triennial Review) of their Basin Plan. The State Board ensures this process is completed in accordance with established State and federal regulations.

The Basin Plans are tailored to the unique land forms, vegetation, weather, population patterns, and economy of each hydrologic basin within California. Each Basin Plan identifies problem areas, designates beneficial uses for the State's waters, sets water quality objectives to protect the beneficial uses, and establishes implementation plans to achieve compliance with the water quality objectives. Objectives are set for biological, chemical, physical, and radiochemical parameters. The Basin Plans provide the technical basis for determining waste discharge requirements, enforcement actions, and evaluating clean water grant proposals.

The nine Basin Plans, one for each Regional Board, consist of twelve bound documents. Access to the Basin Plans is allowed to the general public without charge; however, most Basin Plans are now out-of-print and reprinting is scheduled for sometime in 1993.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 05/01/1975 and CONTINUING as of: 08/31/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, pertinent reports available, planning, technical support, basin plans, beneficial uses of ground water & surface water, limits, water quality objectives, water quality control plans, guidelines, prohibitions.

FOR DETAILS, CONTACT: John Ladd, Chief, Basin Planning Unit

PHONE: (916) 322-0211

This summary information was LAST VERIFIED on: 08/31/1990

PROGRAM: Well Investigation Program

AB 1803, which went into effect January 1, 1984, mandated the development of a systematic program for sampling and analysis of toxic organic chemicals in public water wells. The first phase of the program covered large public water systems (more than 200 connections), while the second phase is directed at small public water systems (5 to 200 connections). The Sanitary Engineering Branch of the Department of Health Services is the lead agency for implementation of the AB1803 program.

The AB1803 Follow-Up program investigates the sources of pollution in public water wells identified by the AB 1803 monitoring program for public wells. This is accomplished by:

- 1) Determining the suspected dischargers within a half-mile radius of each polluted well (or larger area when required by hydrogeologic conditions).
- 2) Taking appropriate enforcement actions to initiate ground water investigations by suspected dischargers to establish confirmed discharges.
- 3) Ensuring that these investigations are conducted such that, if a cause-and-effect relationship exists between a confirmed discharger and a polluted well, it will be discovered.
- 4) Referring each site where a responsible party has been determined to the appropriate program manager (e.g. Underground Storage Tanks Program) for cleanup.
- 5) Transferring sites to Superfund or to other appropriate programs when a responsible party cannot be determined.

The Follow-Up Program includes design of data management, program development and administration, risk assessment, locating suspected point and non-point sources of public well pollution, and evaluating the adequacy of hydrogeologic ground water investigations. Training, legal action, public notification and generation of reports is also included.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 07/01/1985 and CONTINUING as of: 06/19/1990 (dates may be approximate).

KEYWORDS: enforcement, ground water monitoring, pertinent reports available, site investigation, technical support, water supply wells, toxic organics, data management, risk, training, legal, notification.

FOR DETAILS, CONTACT: Barbara Evoy, Well Investigation Program Manager

PHONE: (916) 322-9858

This summary information was LAST VERIFIED on: 06/19/1990

PROJECT: Ground Water Hot Spots Project--Phase 2

Based on the work, "Ground Water Hot Spots--Phase 1," selected sites of shallow ground water and high potential for ground water pollution will be investigated. Up to six ground water monitoring wells will be installed at each site and sampled for volatile organic compounds and pesticides. A final report will be written summarizing the value of taking an active approach to ground water monitoring in "hot spot" areas.

GEOGRAPHIC COVERAGE: Selected Counties in RWQCB Regions 3,4,5

THIS ACTIVITY STARTED: 05/01/1986 and CONTINUING as of: 06/27/1990 (dates may be approximate).

KEYWORDS: demonstration project, ground water monitoring, pertinent reports available, site investigation, hot spots, shallow ground water, volatile organics, pesticides.

CONTINUED FROM: California State Water Resources Control Board; Division of Water Quality
PROJECT: Ground Water Hot Spots Project--Phase 2

FOR DETAILS, CONTACT: Liese Schadt, Associate Engineering Geologist
 California Regional Water Quality Control Board; North Coast Region (1)
 1440 Guerneville; Santa Rosa, CA 95403
 PHONE: (707) 576-2220

This summary information was LAST VERIFIED on: 06/27/1990

PROJECT: Permit Limits for Ground Water Cleanup

Through review of current literature, this project determines the best available technology that is economically achievable in order to create guidelines for setting NPDES permit limits associated with surface water discharges from ground water cleanup operations.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1986 and ENDED: 07/01/1987 (dates may be approximate).

KEYWORDS: ground water cleanup, NPDES permit limits, literature review, economic, guidelines, discharges.

FOR DETAILS, CONTACT: Thomas Howard, Chief, Nonpoint Source Unit

PHONE: (916) 324-7970

This summary information was LAST VERIFIED on: 08/08/1990

STUDY: AB1803 Follow-Up Water Purveyor Survey

The State Water Resources Control Board, in cooperation with the Department of Health Services, is conducting a survey of all water purveyors in California to find out who is using groundwater and the location of the wells. In order to complete the Board's records, data are sought on wells which are: known to be polluted with organic chemicals, closed, abandoned, destroyed, used intermittently or in emergencies, or no longer used for drinking water.

All Regional Water Quality Control Boards and county Public Health Departments will be contacted by mail for information. In addition, survey staff will personally visit each county Public Health Department to obtain data by reviewing records on well owners and testing results.

A final statewide summary will be issued and made available to all agencies cooperating with the survey.

GEOGRAPHIC COVERAGE: All of California

PART OF A PROGRAM titled: Well Investigation Program

THIS ACTIVITY STARTED: 01/01/1987 and ENDED: 06/30/1988 (dates may be approximate).

KEYWORDS: estimate impacts of ground water pollution, ground water usage, pertinent reports available, studies extent of ground water pollution, groundwater users, well owners, well locations, closed wells, abandoned wells, destroyed wells, intermittent wells, inactive wells.

FOR DETAILS, CONTACT: Maryann Jones, Associate Engineering Geologist

PHONE: (916) 322-7637

This summary information was LAST VERIFIED on: 04/13/1988

STUDY: ASIWPCA Non-point Source Survey

Part of a national survey sponsored by the Association of State and Interstate Water Pollution Control Administrators (ASIWPCA) and the Environmental Protection Agency (and applicable to California) is available at the Regional Water Quality Control Boards in the form of a formal response to their final questionnaire. The report deals with ground water quality degradation statewide as caused by non-point sources of contamination. Descriptions are of a general nature.

GEOGRAPHIC COVERAGE: All of USA

THIS ACTIVITY STARTED: 10/15/1985 and ENDED: 01/31/1986 (dates may be approximate).

KEYWORDS: studies sources of pollution, survey, degradation, non-point sources, NPS.

FOR DETAILS, CONTACT: Phil Zentner, Environmental Specialist III

PHONE: (916) 324-1255

This summary information was LAST VERIFIED on: 12/24/1987

STUDY: Bean and Logan/Rector Studies Review

This study evaluates western Kern County oilfield disposal practices. Recommendations will be made to reduce adverse impacts to beneficial uses of ground water that are caused by these disposal practices.

GEOGRAPHIC COVERAGE: Kern County

THIS ACTIVITY STARTED: 06/15/1986 and ENDED: 07/01/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, estimate impacts of ground water pollution, ground water usage, hydrogeology, studies extent of ground water pollution, studies ground water pollutant transport, oilfield disposal.

FOR DETAILS, CONTACT: Thomas Howard, Chief, Nonpoint Source Unit

PHONE: (916) 324-7970

This summary information was LAST VERIFIED on: 08/08/1990

STUDY: Ground Water Contamination Computer Mapping Study

Review and analyze existing governmental toxic materials databases to determine the feasibility of representing the stored data using computer mapping tools. Based on this review, computerized maps of several selected geographic areas will be created and evaluated.

CONTINUED FROM: California State Water Resources Control Board; Division of Water Quality
STUDY: Ground Water Contamination Computer Mapping Study

The study will include preparation of maps of geographic areas with shallow ground water and soils conducive to contaminant movement, showing the conditions under which ground water contamination may have occurred.

The study will also:

- 1) serve as a tool to define geographic areas where ground water protection should be a high priority,
- 2) aid in determining where use of chemicals should be limited,
- 3) assist staff in the cleanup of accidental spills,
- 4) aid in the development of computerized maps serving other purposes (e.g., prediction of plume movement).

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 05/01/1986 and **CONTINUING** as of: 06/19/1990 (dates may be approximate).

KEYWORDS: ground water cleanup, estimate impacts of ground water pollution, ground water management, ground water usage, hydrogeology, pertinent reports available, studies extent of ground water pollution, studies sources of pollution, mapping, toxic materials database.

FOR DETAILS, CONTACT: Barbara Evoy, Senior Engineer Geologist

PHONE: (916) 322-9858

This summary information was **LAST VERIFIED** on: 06/19/1990

STUDY: Ground Water Hot Spots--Phase 1

Identify sites with a high risk of ground water degradation as determined by the presence of toxic organic chemicals at the surface and the characteristics of subsurface hydrogeologic features. The procedure is as follows:

1. A list of selection criteria is developed and data collected for choosing sites.
2. After information on sites is evaluated, selected sites are ranked according to risk and then examined for the presence of shallow existing wells.
3. Wells in high ranking sites are then sampled and samples analyzed for a variety of synthetic organic chemicals.
4. Detection rates are compared to those of other ground water monitoring programs.

GEOGRAPHIC COVERAGE: Selected Counties in RWQCB Regions 3,4,5

THIS ACTIVITY STARTED: 01/01/1984 and **ENDED:** 05/01/1986 (dates may be approximate).

KEYWORDS: hydrogeology, pertinent reports available, studies extent of ground water pollution, studies sources of pollution, hot spots, risk, degradation, toxic organics.

FOR DETAILS, CONTACT: Liese Schadt, Associate Engineering Geologist

California Regional Water Quality Control Board; North Coast Region (1)

1440 Guerneville; Santa Rosa, CA 95403

PHONE: (707) 576-2220

This summary information was **LAST VERIFIED** on: 06/27/1990

STUDY: Ground Water Quality in California: A Review of Scientific and Technical Issues

The final report produced by the review describes technical issues of ground water quality protection in California, including detection, pollutant transport, containment and pollutant cleanup. The report is based on issues identified at California's Fifteenth Biennial Ground Water Conference and provides additional information on the status/limitations of our technical knowledge.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1986 and **ENDED:** 07/15/1986 (dates may be approximate).

KEYWORDS: ground water cleanup, ground water usage, hydrogeology, pertinent reports available, studies ground water pollutant transport, studies sources of pollution, pollution detection, containment.

FOR DETAILS, CONTACT: Jeffrey L. Barnickol, Chief, Ground Water Unit

PHONE: (916) 445-1696

This summary information was **LAST VERIFIED** on: 01/28/1988

STUDY: Nitrate in Drinking Water

The contribution of nitrate to the contamination of drinking water in California is reviewed. Specific locations, sources, and occurrences of nitrate are identified and described. The availability of existing data on nitrate in ground water and the lack of it, data deficiencies, is also reviewed. A work plan is developed that includes strategies and actions to respond to the problem.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 12/01/1987 and **ENDED:** 11/01/1988 (dates may be approximate).

KEYWORDS: estimate impacts of ground water pollution, pertinent reports available, studies extent of ground water pollution, studies sources of pollution, nitrate, drinking water, occurrence and sources, data, workplan.

FOR DETAILS, CONTACT: Dean Schnaible, Associate Engineering Geologist

PHONE: (916) 322-3447

This summary information was **LAST VERIFIED** on: 02/21/1989

CONTINUED FROM: California State Water Resources Control Board; Division of Water Quality

STUDY: Report on Enhancing the Availability and Usability of Background Information for Ground Water Quality Management in California

A comprehensive framework of objectives is used to categorize ways of making more and better ground water information available. Ten specific objectives are proposed, changing and augmenting activities that control the flow of information, to benefit potential data users without incurring unreasonable implementation cost.

Three initial actions are recommended to further define objectives, allow better estimates of benefits and costs, and lay the groundwork for later implementation.

GEOGRAPHIC COVERAGE: All of California

PART OF A PROGRAM titled: Ground Water Quality Protection Strategy Follow-up

THIS ACTIVITY STARTED: 11/01/1988 and ENDED: 07/01/1990 (dates may be approximate).

KEYWORDS: ground water cleanup, ground water usage, hydrogeology, pertinent reports available, project planning, studies extent of ground water pollution, studies ground water pollutant transport, studies sources of pollution, information/data collection, acquisition, distribution, and availability; ground water quality management.

FOR DETAILS, CONTACT: John E. Sarna, California Ground Water Information Directory Coordinator

PHONE: (916) 324-0870

This summary information was LAST VERIFIED on: 09/20/1990

STUDY: Report to the Legislature on Nitrate in Drinking Water

The 1987 Budget Act requested a report to the Legislature from the State Water Resources Control Board on nitrate contamination of drinking water. The State Board has prepared a combined study and workplan.

The study provides background information on nitrate, discusses health and environmental concerns, and economic consequences of nitrate. The study also addresses the nature and extent of nitrate problems in drinking water based on existing information. The report indicates the nitrate problem is widespread in California.

The workplan portion identifies the approach, actions, and resources that are recommended to address and solve both the data deficiencies and the actual nitrate problems.

A bibliography will be included with this study.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 08/01/1987 and ENDED: 10/01/1988 (dates may be approximate).

KEYWORDS: estimate impacts of ground water pollution, ground water management, pertinent reports available, project planning, studies extent of ground water pollution, studies sources of pollution, nitrates, nitrogen, drinking water pollution.

FOR DETAILS, CONTACT: Dean Schnaible, Associate Engineering Geologist

PHONE: (916) 322-3447

This summary information was LAST VERIFIED on: 06/24/1988

STUDY: State Evaluation of Progress (STEP) in Clean Water Act (1972) Program

Part of a comparative study at the national level of water quality for all state waters, including ground water resources, for the years 1972 and 1982. The objective of the study is to determine the effect of the Clean Water Act (passed in 1972).

GEOGRAPHIC COVERAGE: All of USA

THIS ACTIVITY STARTED: 01/01/1972 and ENDED: 01/01/1982 (dates may be approximate).

KEYWORDS: ground water management, pertinent reports available, step, clean water act, comparative study.

FOR DETAILS, CONTACT: Phil Zentner, Environmental Specialist III

PHONE: (916) 324-1255

This summary information was LAST VERIFIED on: 12/24/1987

STUDY: Update of "Ground Water Contamination by Pesticides, A California Assessment" (Ramlit Associates, Inc.)

The study is a followup data verification investigation initiated to update the "Ground Water Contamination by Pesticides: A California Assessment" (Ramlit Associates, Inc.) report which is a compilation of reported incidences of pesticides in California's ground water. The followup study provides additional information on each incidence of ground water contamination, including the name and location of the well, the date sampled, and the level of contaminant detected. Several types of errors in the data obtained from STORET were noted during the investigation. The followup study included recommendations for improving the quality control of data entered into STORET.

GEOGRAPHIC COVERAGE: Counties that had available ground water data on pesticides

THIS ACTIVITY STARTED: 01/01/1983 and ENDED: 06/01/1986 (dates may be approximate).

KEYWORDS: pertinent reports available, studies extent of ground water pollution, pesticides, data verification, wells, contaminant, STORET.

FOR DETAILS, CONTACT: Robin Pinion, Environmental Specialist

PHONE: (916) 322-4505

This summary information was LAST VERIFIED on: 03/01/1988

California State Water Resources Control Board; Division of Water Rights

Street address of Organization: 901 P St; Sacramento, CA 95814

Mailing address of Organization: P.O. Box 2000; Sacramento, CA 95812-2000

PROGRAM: Ground Water Recordation Program

This program will assist in establishing the rights of users to water in the event a judicial determination of rights is invoked to assure orderly and efficient use of water from a ground water source.

Extensive development of the ground water resources of the State, especially in Southern California, has resulted in an increasing overdraft of these resources. The necessity of accumulating information which will enable protection of the water rights of users as well as minimize the expense and delay in event of a comprehensive adjudication is urgent, given these conditions.

Recordation of water extractions and diversions, in four counties, pursuant to Part 5, Division 2 of the Water Code, provides a means for public notice of water use. A general administrative procedure does not currently exist for the determination of rights to ground water. Such determination can only be attained by adjudication through the courts, although the State Water Resources Control Board may assist the courts by acting as a referee.

GEOGRAPHIC COVERAGE: Southern California Region

THIS ACTIVITY STARTED: 09/01/1975 and CONTINUING as of: 08/02/1990 (dates may be approximate).

KEYWORDS: ground water monitoring, water rights, overdraft, adjudication, extractions, diversions.

FOR DETAILS, CONTACT: Ken Beyer, Associate Water Resources Control Engineer

PHONE: (916) 324-5654

This summary information was LAST VERIFIED on: 08/02/1990

California State Water Resources Control Board; Division of Water Rights; Bay-Delta Program

Street address of Organization: 901 P Street; Sacramento, CA 95814

Mailing address of Organization: P.O. Box 2000; Sacramento, CA 95812-2000

STUDY: Central Valley Ground Water Model

The capacity of historic ground water supplies to augment surface water supplies in the central valley is estimated.

A model is developed to estimate future demand on ground water based on various economic factors and the Bay-Delta water quality standards, and to estimate the impact of ground water recharge on surface flows.

GEOGRAPHIC COVERAGE: RWQCB Region Five

THIS ACTIVITY STARTED: 09/01/1986 and CONTINUING as of: 07/25/1990 (dates may be approximate).

KEYWORDS: ground water management, ground water usage, hydrogeology, model, conjunctive use, economic, quality standards, bay-delta, recharge.

FOR DETAILS, CONTACT: Mike Farro, Project Manager

PHONE: (916) 445-2774

This summary information was LAST VERIFIED on: 07/25/1990

STUDY: San Joaquin River Model Study

Determines quantities of ground water flowing into and out of the stretch of the San Joaquin River from Highway 165 to Vernalis.

GEOGRAPHIC COVERAGE: Central California near San Joaquin River

THIS ACTIVITY STARTED: 08/01/1985 and CONTINUING as of: 08/03/1990 (dates may be approximate).

KEYWORDS: estimate impacts of ground water pollution, ground water management, studies ground water pollutant transport, studies sources of pollution, water balance, quantity, vernalis, accretions, salt loads.

FOR DETAILS, CONTACT: Charlie Kratzer, Project Manager

PHONE: (916) 324-5752

This summary information was LAST VERIFIED on: 08/03/1990

California State Water Resources Control Board; Office of Water Recycling

Street address of Organization: 901 P St.; Sacramento, CA 95814

Mailing address of Organization: P.O. Box 100; Sacramento, CA 95801

STUDY: Scientific Advisory Panel on Ground Water Recharge

The objectives of the panel are: (1) define the effects on human health due to using reclaimed water for ground water recharge to augment the domestic water supply, (2) evaluate the benefits and risks associated with ground water recharge using reclaimed water, and (3) assist in the establishment of statewide criteria for ground water recharge with reclaimed water.

To achieve the Panel's objectives, the panel will:

1. Assess the applicability of wastewater treatment processes and operations for producing reclaimed water suitable for ground water recharge.
2. Evaluate the reliability and monitoring protocols for the wastewater treatment process.
3. Analyze factors influencing water quality conditions at the points of recharge and extraction.
4. Assess water quality changes during infiltration/percolation and during flow through the saturated ground water zone. Assess the contribution to overall treatment system performance and reliability.

CONTINUED FROM: California State Water Resources Control Board; Office of Water Recycling
STUDY: Scientific Advisory Panel on Ground Water Recharge

5. Provide detailed background information and recommendations for the establishment of statewide criteria and standards for ground water recharge with reclaimed water.
6. Assess and recommend ground water quality monitoring protocols that are necessary to protect human health where reclaimed water is used to recharge ground water.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 07/01/1986 and CONTINUING as of: 08/02/1990 (dates may be approximate).

KEYWORDS: ground water management, ground water usage, hydrogeology, project planning, studies ground water pollutant transport, recharge, reclaimed water, water supply, risk, wastewater treatment, infiltration, percolation, standards.

FOR DETAILS, CONTACT: Takashi Asano, Organizing Committee Chairman

PHONE: (916) 739-4269

This summary information was LAST VERIFIED on: 08/02/1990

California Waste Management Board

Street address of Organization: 1020 Ninth Street, Suite 300; Sacramento, CA 95814

PROGRAM: California Waste Management Board

The Board's primary area of responsibility is management of solid waste (this includes investigating advanced technologies, promoting recycling, conducting economic studies and landfill gas research). Solid waste sites are a potential source of pollution to California's ground water. The Board grants and enforces permits for sites that safely dispose of non-hazardous solid waste: this requires environmental review. Detection, monitoring and enforcement activities are performed as required.

GEOGRAPHIC COVERAGE: All of California

THIS ACTIVITY STARTED: 01/01/1972 and CONTINUING as of: 10/26/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, enforcement, permitting, planning, site inspection, technical support, solid waste.

FOR DETAILS, CONTACT: Michael O. Finch, Engineering Geologist

PHONE: (916) 322-0462

This summary information was LAST VERIFIED on: 10/26/1988

California Water Service Company

Street address of Organization: 1555 Miramonte; Los Altos, CA 94024

PROGRAM: California Water Service Company Water Well Permitting

The siting, drilling, and construction of new water wells, the deepening and reoperation of existing wells, and the abandonment and destruction of old wells are regulated through a permit program. All counties will be required to adopt a well permitting ordinance in 1990, either the State of California's model ordinance or their own.

References: California Water Code Sections 231, 13800, DWR Bulletin 74-81 (Water Well Standards: State of California); Model Well Ordinance Act (AB3127, Arias, 1986); California Water Code Sections 13701, 13712, 13800, 13801.

GEOGRAPHIC COVERAGE: Los Altos Hills

THIS ACTIVITY STARTED: 01/01/1945 and CONTINUING as of: 12/19/1989 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, permitting, planning, site inspection, site investigation, water wells, construction, abandonment, destruction.

FOR DETAILS, CONTACT: Ray Taylor, Director of Water Quality

PHONE: (408) 453-8414

This summary information was LAST VERIFIED on: 12/19/1989

PROGRAM: California Water Service Company Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

The water company submits to the county their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

The water company assume the responsibility of preparing an emergency response plan and administering this program within its jurisdiction by enacting an ordinance. If the water company assumes this responsibility, its response must be coordinated with the county's response program.

CONTINUED FROM: California Water Service Company**PROGRAM: California Water Service Company Hazardous Materials Spills Emergency Response**

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: Los Altos Hills

THIS ACTIVITY STARTED: 01/01/1988 and CONTINUING as of: 12/19/1989 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, permitting, planning, site inspection, site investigation, technical support, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Ray Taylor, Director of Water Quality

PHONE: (408) 453-8414

This summary information was LAST VERIFIED on: 12/19/1989

PROGRAM: California Water Service Company Underground Storage Tanks Regulation

The design, construction, closure and abandonment of storage tanks are regulated by a permit program. Permits for underground tanks are renewed, modified or terminated based on an inspection of the tank, drainage system, and monitoring system. The permit is valid for 5 years and cannot be renewed unless the underground tank has been inspected within the prior 3 years. More frequent testing is usually required since any monitoring system must be capable of determining the containment ability of the underground storage tank and detecting any active or future unauthorized releases.

References: California Code of Regulations, Title 23, Chapter 3, Subchapter 16; 1988 Uniform Fire Code, Articles 79 & 80.

GEOGRAPHIC COVERAGE: Los Altos Hills

THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 12/19/1989 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, ground water monitoring, permitting, planning, site inspection, site investigation, technical support, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Ray Taylor, Director of Water Quality

PHONE: (408) 453-8414

This summary information was LAST VERIFIED on: 12/19/1989

PROGRAM: California Water Service Company Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 2 years for minerals and organic compounds, and every 3 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Los Altos Hills

THIS ACTIVITY STARTED: 01/01/1945 and CONTINUING as of: 12/19/1989 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Ray Taylor, Director of Water Quality

PHONE: (408) 453-8414

This summary information was LAST VERIFIED on: 12/19/1989

Cambria Community Services District

Street address of Organization: Corner of Bridge Street and Center Street; Cambria, CA 93428

Mailing address of Organization: P.O. Box 65; Cambria, CA 93428

PROGRAM: Cambria Community Services District Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services. Electron conductivity and nitrate concentrations are monitored once a month. Water level information is obtained semi-monthly and production quantities are taken daily. The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Cambria

THIS ACTIVITY STARTED: 03/01/1979 and CONTINUING as of: 08/08/1988 (dates may be approximate).

CONTINUED FROM: Cambria Community Services DistrictPROGRAM: Cambria Community Services District Large Water Supply Systems Monitoring ProgramKEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform,
Title 22, AB1803.

FOR DETAILS, CONTACT: John Stratford, General Manager

PHONE: (805) 927-3823

This summary information was LAST VERIFIED on: 08/08/1988

PROJECT: San Simeon Creek Diversion-Storage-Recharge Project

An inflatable type structure will be used to divert approximately 6000 acre-ft of surface water from the San Simeon Creek. The water will be pumped to an adjacent valley for storage and gravity recharge will be used to supplement the groundwater during the summer.

GEOGRAPHIC COVERAGE: Cambria

THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 08/08/1988 (dates may be approximate).

KEYWORDS: allocates funds, ground water modeling, ground water monitoring, pertinent reports available, planning, site investigation, divert, storage, recharge.

FOR DETAILS, CONTACT: John Stratford, General Manager

PHONE: (805) 927-3823

This summary information was LAST VERIFIED on: 08/08/1988

Camrosa Water District and City of Thousand Oaks

Street address of Organization: 7385 East Santa Rosa Rd; Camarillo, CA 93010

PROGRAM: The Conejo-Calleguas Creek Data Collection Program

Data is systematically collected on the flow and quality of water in Conejo-Calleguas Creek to establish a hydrologic data base. Quantities of both run-off and discharge are determined. Downstream use is documented. Also documented is the quality of the discharge effluent from a waste water treatment facility and its impact on the downstream environment and the Santa Rosa Ground Water Basin.

GEOGRAPHIC COVERAGE: Santa Rosa Basin & Conejo-Calleguas Creek System (16.5 miles)

THIS ACTIVITY STARTED: 05/01/1986 and CONTINUING as of: 10/13/1989 (dates may be approximate).

KEYWORDS: administrative support, ground water monitoring, pertinent reports available, planning, site inspection, site investigation, technical support, data collection, hydrologic data base, flow & quality of creek system, downstream use, quality & impact of discharge effluent.

FOR DETAILS, CONTACT: Gina Manchester, General Manager

Camrosa Water District

7385 East Santa Rosa Rd; Camarillo, CA 93010

PHONE: (805) 482-4677

This summary information was LAST VERIFIED on: 10/13/1989

Camrosa Water District

Street address of Organization: 7385 East Santa Rosa Rd; Camarillo, CA 93010

PROGRAM: Large Water Supply Systems Monitoring Program

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every year for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Santa Rosa Basin

THIS ACTIVITY STARTED: 01/01/1965 and CONTINUING as of: 10/13/1989 (dates may be approximate).

KEYWORDS: administrative support, ground water monitoring, pertinent reports available, planning, site inspection, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Gina Manchester, General Manager

PHONE: (805) 482-4677

This summary information was LAST VERIFIED on: 10/13/1989

STUDY: Nitrate Removal Study

The study will determine the feasibility of building and maintaining a water treatment system for ground water extracted from Canejo Wells Nos. 1 & 2. The primary concern is an increasing nitrate level. In addition, the study addresses other characteristics of the water such as chloride and sulfate levels. Three alternatives for the feasibility of treatment are considered: nitrate removal only, nitrate removal with water softening, and complete demineralization.

GEOGRAPHIC COVERAGE: Santa Rosa Basin & Conejo Wells No. 1 & 2

THIS ACTIVITY STARTED: 05/11/1989 and CONTINUING as of: 10/13/1989 (dates may be approximate).

CONTINUED FROM: Camrosa Water District
STUDY: Nitrate Removal Study

KEYWORDS: ground water cleanup, ground water management, ground water usage, project planning, water treatment, conejo wells nos. 1 & 2, nitrate level, other characteristic of water, feasibility of treatment.

FOR DETAILS, CONTACT: Gina Manchester, General Manager

PHONE: (805) 482-4677

This summary information was **LAST VERIFIED** on: 10/13/1989

STUDY: The Santa Rosa Ground Water Basin Management Plan

Ground water data is collected and used to screen water management alternatives. A mathematical computer model is used to find the management alternative that maximizes the beneficial use of existing ground water while protecting the quality of that water.

GEOGRAPHIC COVERAGE: Santa Rosa Basin

PART OF A PROGRAM titled: The Conejo-Calleguas Creek Data Collection Program

THIS ACTIVITY STARTED: 06/26/1984 and **ENDED:** 09/01/1987 (dates may be approximate).

KEYWORDS: ground water cleanup, ground water management, ground water usage, hydrogeology, pertinent reports available, project planning, studies extent of ground water pollution, studies ground water pollutant transport, studies sources of pollution, ground water data, management alternatives, mathematical computer model.

FOR DETAILS, CONTACT: Gina Manchester, General Manager

PHONE: (805) 482-4677

This summary information was **LAST VERIFIED** on: 10/13/1989

Capistrano Valley Water District

Mailing address of Organization: P. O. Box 967; San Juan Capistrano, CA 92693

PROGRAM: Capistrano Valley Water District Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of San Juan Capistrano and part of City of Dana Point

THIS ACTIVITY STARTED: 01/01/1960 and **CONTINUING** as of: 06/18/1990 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Ray Auerbach, General Manager

PHONE: (714) 493-1515

This summary information was **LAST VERIFIED** on: 06/18/1990

Carmichael Water District

Mailing address of Organization: P.O. Box 929; Carmichael, CA 95609

PROGRAM: Carmichael Water District Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: 7.1 Square Miles in the Carmichael Area

THIS ACTIVITY STARTED: 07/01/1983 and **CONTINUING** as of: 08/04/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Roger McGinty, General Manager

PHONE: (916) 483-2452

This summary information was **LAST VERIFIED** on: 08/04/1988

CONTINUED FROM: Carmichael Water District

PROGRAM: Carmichael Water District Supervisory Control and Data Acquisition Telemetry System

The purpose of this program is to provide Carmichael Water District with a Supervisory Control and Data Acquisition (SCADA) telemetry system which includes:

1. Turbidity monitoring of the American River source of supply
2. Site entry records
3. Water pressure and production monitoring and control
4. Site Maps
5. Start/Stop pump controlling directly from the computer terminal
6. Water level monitoring and analysis
7. Power, transducer, flow failure and communication records
8. Alarm records (time, place, and type)

GEOGRAPHIC COVERAGE: 7.1 Square Miles in the Carmichael Area

THIS ACTIVITY STARTED: 07/01/1987 and CONTINUING as of: 08/04/1988 (dates may be approximate).

KEYWORDS: administrative support, ground water monitoring, turbidity, telemetry, water pressure, transducer.

FOR DETAILS, CONTACT: Roger McGinty, General Manager

PHONE: (916) 483-2452

This summary information was LAST VERIFIED on: 08/04/1988

PROJECT: Carmichael Water District Well Building Project

Four new wells are to be built for the Carmichael Water District by 1990 to increase their use of ground water.

GEOGRAPHIC COVERAGE: 7.1 Square Miles in the Carmichael Area

THIS ACTIVITY STARTED: 07/01/1988 and ENDED: 01/01/1990 (dates may be approximate).

KEYWORDS: planning, wells, water supply.

FOR DETAILS, CONTACT: Roger McGinty, General Manager

PHONE: (916) 483-2452

This summary information was LAST VERIFIED on: 08/04/1988

PROJECT: Carmichael Water District Urban Water Management Plan

The purpose of this project was to fulfill the requirements of AB797 for the Carmichael Water District. AB797 requires urban water suppliers who provide water for municipal usage to more than 3000 people, or supply more than 3000 acre-feet per year, to have prepared and adopted an urban water management plan by December 31, 1985 and have filed the plan with the Department of Water Resources within 30 days.

GEOGRAPHIC COVERAGE: 7.1 Square Miles in the Carmichael Area

THIS ACTIVITY STARTED: 01/01/1985 and ENDED: 11/01/1985 (dates may be approximate).

KEYWORDS: pertinent reports available, planning, AB797, urban water management plan act.

FOR DETAILS, CONTACT: Roger McGinty, General Manager

PHONE: (916) 483-2452

This summary information was LAST VERIFIED on: 08/04/1988

STUDY: Carmichael Water District Water Supply Study

The purpose of this study was to evaluate four alternative water supply programs for Carmichael Water District. These alternatives included:

1. Participation in the San Juan Suburban Water District Multi-District Project.
2. Construct new Ranney Collectors (round-shaped buildings, approximately 30 feet in diameter which continue for 35 to 50 feet below the ground and collect filtered water 15 to 20 feet below the river-bed through perforated lateral pipes) to replace existing facilities.
3. Additional well supplies and refurbishment of existing collectors on the American River.
4. Diversion and treatment of American River water by Carmichael Water District in a new treatment plant.

Carmichael Water District chose to rehabilitate existing Ranney collectors rather than to replace them. They also chose to construct two new wells (1988-1989) and make plans for future wells and filtration treatment of the American River Water if necessary. But, most importantly, they chose not to join the San Juan Suburban Water District Multi-District Project due to a higher cost than for other alternatives.

GEOGRAPHIC COVERAGE: 7.1 Square Miles in the Carmichael Area

THIS ACTIVITY STARTED: 02/11/1985 and ENDED: 08/01/1985 (dates may be approximate).

KEYWORDS: ground water management, ground water usage, pertinent reports available, project planning, San Juan suburban multi-district project, ranney collectors.

FOR DETAILS, CONTACT: Roger McGinty, General Manager

PHONE: (916) 483-2452

This summary information was LAST VERIFIED on: 08/04/1988

Carpinteria County Water District

Street address of Organization: 1301 Santa Ynez Street; Carpinteria, CA 93013
 Mailing address of Organization: P.O. Box 578; Carpinteria, CA 93013

PROGRAM: Carpinteria County Water District Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Carpinteria

THIS ACTIVITY STARTED: 01/01/1972 and CONTINUING as of: 08/15/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Robert Lieberknecht, Manager

PHONE: (805) 684-2816

This summary information was LAST VERIFIED on: 08/15/1988

STUDY: Hydrogeologic Investigation of the Carpinteria Groundwater Basin

The study presents a comprehensive and detailed presentation of the hydrogeology and the hydrology of the Carpinteria Basin.

The study was updated July, 1986.

GEOGRAPHIC COVERAGE: Carpinteria Valley and vicinity

THIS ACTIVITY STARTED: 01/01/1975 and ENDED: 01/01/1976 (dates may be approximate).

KEYWORDS: ground water management, ground water usage, hydrogeology, pertinent reports available, project planning, hydrogeology, hydrology.

FOR DETAILS, CONTACT: Joseph M. Gonzalez, President

PHONE: (805) 643-2203

This summary information was LAST VERIFIED on: 08/15/1988

Casitas Municipal Water

Street address of Organization: 1055 N. Ventura Avenue; Oak View, CA 93022
 Mailing address of Organization: P.O. Box 37; Oak View, CA 93022

PROGRAM: Casitas Municipal Water Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Ventura, Ojai, and unincorporated areas in Ventura County

THIS ACTIVITY STARTED: 01/01/1959 and CONTINUING as of: 10/05/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Richard Barnett, Engineering Department Manager

PHONE: (805) 649-2251

This summary information was LAST VERIFIED on: 10/05/1988

PROGRAM: Ventura River Basin Conjunctive Use Agreement

Implementing the conjunctive use agreement includes: 1.) the management of the Ventura River ground water basin to maximize the yield of Lake Casitas, 2.) the diversion of surface water in the Ventura River Basin to Lake Casitas, and 3.) the channelling of storm water drainage into the lower stretch of the Ventura River.

GEOGRAPHIC COVERAGE: Ventura River Basin

THIS ACTIVITY STARTED: 01/01/1972 and CONTINUING as of: 10/05/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, planning, management, diversion, yield, storm water drainage, conjunctive use.

FOR DETAILS, CONTACT: Richard Barnett, Engineering Department Manager

PHONE: (805) 649-2251

This summary information was LAST VERIFIED on: 10/05/1988

CONTINUED FROM: Casitas Municipal Water

STUDY: Ojai Ground Water Study

Utilization of ground water within the basin is characterized. Imported water usage is compared to basin water usage. Current and historical usage of water in the basin is established and used to determine water usage trends.

GEOGRAPHIC COVERAGE: Ojai Valley (Ojai Basin)

THIS ACTIVITY STARTED: 01/01/1987 and ENDED: 09/24/1988 (dates may be approximate).

KEYWORDS: ground water management, ground water usage, pertinent reports available, utilization, usage.

FOR DETAILS, CONTACT: Richard Barnett, Engineering Department Manager

PHONE: (805) 649-2251

This summary information was LAST VERIFIED on: 10/05/1988

Castroville Water District

Mailing address of Organization: P.O. Box 658; Castroville, CA 95012

PROGRAM: Castroville Water District Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Unincorporated Urban Area of Castroville

THIS ACTIVITY STARTED: 01/01/1952 and CONTINUING as of: 07/07/1989 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water monitoring, site inspection, site investigation, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Joseph Lyons, General Manager

PHONE: (408) 633-2560

This summary information was LAST VERIFIED on: 07/07/1989

Cedarville County Water District

Mailing address of Organization: P.O. Box 285; Cedarville, CA 96104

PROGRAM: Large Water Supply Systems Monitoring Program, Cedarville

The water supply system of 250 service connections is sampled twice monthly for fecal coliform. Radioactivity is occasionally tested for as requested by the Department of Health Services. Every 3 years an extensive water quality analysis for organic and chemical constituents is performed on a water sample taken from the well head. This data is kept on file at DHS in Redding as "Title 22 Data Base", as well as at the Modoc County Courthouse and the Cedarville County Water District office.

GEOGRAPHIC COVERAGE: Cedarville

THIS ACTIVITY STARTED: 01/01/1975 and CONTINUING as of: 11/05/1987 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply, fecal coliform, chlorine, wells, minerals, organics, radioactivity.

FOR DETAILS, CONTACT: Glen Allen, Manager

PHONE: (916) 279-2310

This summary information was LAST VERIFIED on: 11/05/1987

Central and West Basin Water Replenishment District

Street address of Organization: 7439 E. Florence Ave.; Downey, CA 90240

PROGRAM: Central and West Coast Ground Water Basin Management

The Central and West Basin Water Replenishment District oversees this program whose objective is to maintain ground water quality and ensure adequate water supplies by promoting efficient use of ground water resources. This is generally accomplished by:

1. Engineering surveys of surface and ground water supplies;
2. Monitoring ground water quality;
3. Identifying potential sources of ground water pollution and the potential for sea water intrusion;

Analysis of projected needs and uses of ground water is included. Ground water replenishment programs are implemented using water spreading and other methods in cooperation with a number of other agencies.

GEOGRAPHIC COVERAGE: Southern Part of Los Angeles County

THIS ACTIVITY STARTED: 01/01/1959 and CONTINUING as of: 06/28/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water modeling, ground water monitoring, pertinent reports available, planning, technical support, basin management, recharge, pollution, sea water intrusion, ground water replenishment, water quality, water supply, projected need.

CONTINUED FROM: Central and West Basin Water Replenishment District
PROGRAM: Central and West Coast Ground Water Basin Management

FOR DETAILS, CONTACT: Bill O'Brien, Civil Engineer
Bookman-Edmonston Engineering, Inc.
100 North Brand, Suite 600; Glendale, CA 91203
PHONE: (818) 244-0117

This summary information was LAST VERIFIED on: 06/28/1990

Central Water District; Santa Cruz County

Mailing address of Organization: P.O. Box 1869; Aptos, CA 95001

PROGRAM: Central Water District Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 2 years for organic compounds, every 3 years for minerals and every 4 years for radiochemical compounds. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at the Department of Health Services regional office.

Groundwater is the sole source of municipal supply in this district.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Community of Aptos Rural Area

THIS ACTIVITY STARTED: 01/01/1975 and CONTINUING as of: 05/26/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803, sole source, radiochemical compounds.

FOR DETAILS, CONTACT: Richard Fairhurst, District Manager

PHONE: (408) 688-2767

This summary information was LAST VERIFIED on: 05/26/1988

Channel Islands Beach Community Services District

Street address of Organization: 353 Santa Monica Drive; Oxnard, CA 93035

PROGRAM: Channel Islands Beach Community Services District Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Beach areas at Ch.Is.Hrbr,Hlywd B.,Slvr.Strd B.,Peninsula Rd

THIS ACTIVITY STARTED: 01/01/1960 and CONTINUING as of: 09/06/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Jim Passanisi, Superintendent

PHONE: (805) 985-6021

This summary information was LAST VERIFIED on: 09/06/1988

STUDY: Channel Islands Beach Community Services District Water Systems Study

The study evaluated the water supply systems ability to comply with Title 22, provide adequate fire flow, and fulfill storage requirements. System deficiencies were found in a portion of the system that provided water for residential use and in the Harbor area system. An estimated 5 million dollars is needed to upgrade the system and negotiation are currently under way with Ventura county to obtain the funding needed.

GEOGRAPHIC COVERAGE: Beach areas at Ch.Is.Hrbr,Hlywd B.,Slvr.Strd B.,Peninsula Rd

THIS ACTIVITY STARTED: 12/09/1986 and ENDED: 07/27/1987 (dates may be approximate).

KEYWORDS: ground water management, ground water usage, pertinent reports available, project planning, Title 22, fire flow, storage, system deficiencies, funding, residential.

FOR DETAILS, CONTACT: Jim Passanisi, Superintendent

PHONE: (805) 985-6021

This summary information was LAST VERIFIED on: 09/06/1988

Chester Public Utilities District

Mailing address of Organization: P.O. Box 503; Chester, CA 96020

PROGRAM: Depth to Ground Water Monitoring Program

The water supply wells were occasionally monitored for depth to ground water and general bacterial contaminants prior to the institution of the Safe Drinking Water Act.

GEOGRAPHIC COVERAGE: Chester

THIS ACTIVITY STARTED: 01/01/1968 and CONTINUING as of: 10/05/1987 (dates may be approximate).

KEYWORDS: ground water monitoring, depth, total coliform.

FOR DETAILS, CONTACT: Bob Merrifield, Manager

PHONE: (916) 258-2171

This summary information was LAST VERIFIED on: 10/05/1987

PROGRAM: Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Chester

THIS ACTIVITY STARTED: 01/01/1968 and CONTINUING as of: 10/05/1987 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply, total coliform, chlorine, wells, minerals, organics.

FOR DETAILS, CONTACT: Bob Merrifield, Manager

PHONE: (916) 258-2171

This summary information was LAST VERIFIED on: 10/05/1987

Chino Basin Municipal Water District; (Acting as Watermaster)

Street address of Organization: 8555 Archibald Av.; Rancho Cucamonga, CA 91730

PROGRAM: Chino Basin Watermaster

The adjudication of the Chino Basin on January 27, 1978 resulted in the appointment of the Chino Basin Municipal Water District as Watermaster of this ground water basin. This district oversees the allotments and is responsible for collection of the pump tax used to replenish the ground water. The district also oversees the transfer of allocation to cities for municipal and industrial uses if not needed for the intended agricultural purpose. A history of the wells is maintained along with production reports.

The District also has available a ground water level map.

GEOGRAPHIC COVERAGE: Chino Ground Water Basin

THIS ACTIVITY STARTED: 01/01/1978 and CONTINUING as of: 04/05/1988 (dates may be approximate).

KEYWORDS: allocates funds, ground water modeling, ground water monitoring, pertinent reports available, planning, site inspection, technical support, adjudication, watermaster, pump tax.

FOR DETAILS, CONTACT: Donald Peters, Chief, Watermaster Services

PHONE: (714) 987-1712

This summary information was LAST VERIFIED on: 04/05/1988

Chualar County Water District

Mailing address of Organization: P.O. Box 436; Chualar, CA 93925

PROGRAM: Chualar County Water District Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Town of Chualar

THIS ACTIVITY STARTED: 01/01/1975 and CONTINUING as of: 11/09/1989 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Michael Brusa, President

PHONE: (408) 679-2400

This summary information was LAST VERIFIED on: 11/09/1989

Cities of Belmont and San Carlos; South County Fire Authority; Fire Prevention Bureau
 Street address of Organization: 666 Elm Street; San Carlos, CA 94070

PROGRAM: South [San Mateo] County Fire Authority Underground Tanks Program

Regulations apply to the design, construction, closure and abandonment of underground storage tanks. These regulations also apply to the monitoring and drainage systems installed at the tank locations.

Regulations are enforced through a permit program. Permits for underground tanks are renewed, modified or terminated based on an inspection of the tank and monitoring system. The permit is valid for 1 year, and the underground tank and the monitoring records are inspected every year.

The South County Fire Authority is the only fire department in the county to maintain control over underground tanks within its jurisdiction. The cities of Belmont and San Carlos adopted the Ordinance for Underground Storage of Hazardous Substances and this ordinance established the permit program run by the Fire Authority.

All underground tank data are stored in the Fire Authority's Hazardous Materials Program Manager Database.

References: The California Code of Regulations, Title 23, Chapter 3, Subchapter 16. City of Belmont and City of San Carlos Ordinance 1983-2.

GEOGRAPHIC COVERAGE: Cities of Belmont and San Carlos

THIS ACTIVITY STARTED: 12/08/1983 and CONTINUING as of: 09/09/1988 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Jim Butera, Inspector

PHONE: (415) 593-8016

This summary information was LAST VERIFIED on: 09/09/1988

PROGRAM: South (San Mateo) County Fire Authority Hazardous Materials Spills

The South County Fire Authority prepares an county-wide emergency response plan to hazardous materials spills as outlined by the Office of Emergency Services. The emergency response plan outlines the responsibilities of the agencies involved. Events are coordinated with the appropriate incident commander, resources necessary to handle the spill are gathered, the spill is isolated and the media are informed. Appropriate people are called in to assess the extent of needed cleanup procedures.

All individual businesses in the county that handle hazardous materials must submit to the Fire Authority their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

The jurisdiction of the South County Fire Authority is within the cities of Belmont and San Carlos. However, since the Fire Authority possesses significant expertise and sophisticated equipment to deal with hazardous materials, the Authority is responsible for this program for the entire county.

All inventory, business plan and emergency response plan information is stored on the Fire Authority's Hazardous Materials Permit Manager Database.

References: AB2185 (1985, Waters); AB3777 (1986, La Follette); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.; Proposition 65.

GEOGRAPHIC COVERAGE: San Mateo County

THIS ACTIVITY STARTED: 01/01/1984 and CONTINUING as of: 09/09/1988 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, pertinent reports available, planning, site inspection, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Jim O'Donnell, Battalion Chief

PHONE: (415) 593-8011

This summary information was LAST VERIFIED on: 09/09/1988

PROGRAM: South [San Mateo] County Fire Authority Annual Permit Program for Hazardous Materials

Under Article 4 of the Uniform Fire Code, the South County Fire Authority regulates hazardous materials within the cities of Belmont and San Carlos. The use and storage of hazardous materials in these cities are governed by a permit program. They issue annual permits and the facilities are inspected yearly.

Records on these permitted activities are stored in the South County Fire Authority's Hazardous Materials Permit Manager Database.

Reference: Uniform Fire Code, Article 4.

GEOGRAPHIC COVERAGE: Cities of Belmont and San Carlos

THIS ACTIVITY STARTED: 04/01/1978 and CONTINUING as of: 09/09/1988 (dates may be approximate).

KEYWORDS: enforcement, permitting, pertinent reports available, planning, site inspection, technical support, hazardous materials use, hazardous materials storage, uniform fire code.

FOR DETAILS, CONTACT: Carolyn Mattingly, Inspector

PHONE: (415) 593-8011

This summary information was LAST VERIFIED on: 09/09/1988

Citrus Heights Irrigation District

Mailing address of Organization: P.O. Box 286; Citrus Heights, CA 95611

PROGRAM: Citrus Heights Irrigation District Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Citrus Heights Area

THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 07/20/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Robert Churchill, General Manager

PHONE: (916) 725-6873

This summary information was LAST VERIFIED on: 07/20/1988

City of Adelanto; Water Department

Mailing address of Organization: P.O. Box 10; Adelanto, CA 92301

PROGRAM: City of Adelanto--Large Water Supply Systems Monitoring Program

Prior to 1983, the City of Adelanto obtained its water from George Air Force Base and was only required to test for coliform. In 1983 the City drilled its own wells to supply the community of more than 1200 service connections. This system is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Adelanto

THIS ACTIVITY STARTED: 01/01/1954 and CONTINUING as of: 09/21/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Jack Stoneffer, Superintendent of the Water Department

PHONE: (619) 246-8606

This summary information was LAST VERIFIED on: 09/21/1988

City of Alhambra; Public Works Department; Water Division

Street address of Organization: 111 South 1st Street; Alhambra, CA 91801

PROGRAM: City of Alhambra Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Alhambra

THIS ACTIVITY STARTED: 01/01/1980 and CONTINUING as of: 04/03/1990 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, site inspection, site investigation, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Thomas Shollenberger, General Manager

PHONE: (818) 570-5070

This summary information was LAST VERIFIED on: 04/03/1990

City of Alturas; Department of Public Works

Street address of Organization: 200 North Street; Alturas, CA 96101

PROGRAM: Alturas City Water Well Usage Monitoring Program

The City of Alturas annually records the number of city wells in operation, the number of service connections and the quantity of ground water discharged from them.

GEOGRAPHIC COVERAGE: City of Alturas

THIS ACTIVITY STARTED: 01/01/1972 and CONTINUING as of: 11/05/1987 (dates may be approximate).

KEYWORDS: ground water monitoring, water wells, flow rate.

FOR DETAILS, CONTACT: Jerry Wendlen, Assistant Public Works Director

PHONE: (916) 233-2512

This summary information was LAST VERIFIED on: 11/05/1987

PROGRAM: Large Water Supply Systems Monitoring Program, Alturas

The water supply system of 1600 service connections is sampled weekly at random distribution points for fecal coliform. Individual wells are tested monthly. Radioactivity is occasionally tested for as requested by the Department of Health Services. Every 3 years an extensive water quality analysis for organic and chemical constituents is performed on a water sample taken from the well head. This data is kept on file at DHS in Redding as "Title 22 Data Base", as well as at the Public Works Department in Alturas.

GEOGRAPHIC COVERAGE: City of Alturas

THIS ACTIVITY STARTED: 01/01/1972 and CONTINUING as of: 11/05/1987 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply, radioactivity, fecal coliform, chlorine, wells, minerals, organics, water supply.

FOR DETAILS, CONTACT: Mick Doss, Public Works Director

PHONE: (916) 233-2512

This summary information was LAST VERIFIED on: 11/05/1987

City of Anaheim; Division of Water Engineering

Mailing address of Organization: P.O. Box 3222, #559; Anaheim, CA 92803

PROGRAM: City of Anaheim Water Quality Assurance Program

The community water system, consisting of over 55,000 service connections, is sampled weekly at 40 points throughout the distribution system. Samples are tested for temperature, pH, chlorine residuals, clarity, total coliform bacteria, and heterotrophic bacteria. On a rotating basis, one sample out of every 4 bacteriological samples is analyzed for general physical characteristics, and one of every 4 of these (general physical samples) is analyzed for general mineral characteristics and nitrates.

Samples are also collected and analyzed quarterly for total trihalomethanes. Four individual community ground water wells out of 30 wells are sampled on a rotating basis and all operating Metropolitan Water District (MWD) connections are sampled and analyzed weekly for the bacteriological and general physical parameters described above. On a rotating basis, one of the four wells will be sampled and analyzed for general mineral characteristics and nitrates. All operating wells are sampled and analyzed quarterly for Title 22 organic chemicals and radionuclides by the Orange County Water District. One third of all wells are sampled and annually undergo a complete Title 22 analysis by either the city or the district. Select reservoirs are sampled and analyzed weekly for the bacteriological and general physical parameters described above plus Nitrite/Nitrate and Volatile Organic Chemicals (especially TCE). All other treated water supplies are sampled and analyzed quarterly for the same bacteriological and general physical parameters.

The City conducted a similar program before this program was initiated, from 1960 to 1984. Prior to 1960, similar monitoring was done by the County Health Department.

GEOGRAPHIC COVERAGE: City of Anaheim Water Service Area

THIS ACTIVITY STARTED: 07/01/1960 and CONTINUING as of: 05/22/1990 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, site inspection, site investigation, technical support, water supply wells, organics, minerals, wells, chlorine, disinfection, total coliform, Title 22, AB1803, AB21.

FOR DETAILS, CONTACT: Paul Stiglich, Water Quality Supervisor

PHONE: (714) 999-5100 x6032

This summary information was LAST VERIFIED on: 05/22/1990

PROGRAM: City of Anaheim Water Well Permitting

The drilling and construction of new water wells, the reconstruction of existing water wells, and the abandonment and destruction of old wells are regulated through a permit program.

GEOGRAPHIC COVERAGE: City of Anaheim Water Service Area

THIS ACTIVITY STARTED: 01/01/1960 and CONTINUING as of: 05/16/1990 (dates may be approximate).

KEYWORDS: enforcement, permitting, water wells, construction, abandonment, destruction.

FOR DETAILS, CONTACT: Bruce Bowman, Principal Water Engineer

PHONE: (714) 999-5011 x5506

This summary information was LAST VERIFIED on: 05/16/1990

City of Anaheim; Fire Department

Street address of Organization: 500 East Broadway; Anaheim, CA 92803

PROGRAM: City of Anaheim Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the county or city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

The city may assume the responsibility of preparing an emergency response plan and administering this program within its jurisdiction by enacting an ordinance. If the city assumes this responsibility, its response must be coordinated with the county's response program.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Anaheim

THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 06/25/1990 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, pertinent reports available, planning, site inspection, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Bob Young, Fire Battalion Chief

PHONE: (714) 999-1800

This summary information was LAST VERIFIED on: 06/25/1990

City of Anaheim; Public Utilities Department

Street address of Organization: 909 E. Vermont St; Anaheim, CA 92803

PROGRAM: City of Anaheim Environmental Compliance Program

The program was established to insure that all hazardous substances used at department facilities are properly stored and disposed of, thereby preventing the release of contaminants and the potential for contaminating soil and ground water.

GEOGRAPHIC COVERAGE: City Limits of Anaheim

THIS ACTIVITY STARTED: 06/01/1989 and CONTINUING as of: 05/22/1990 (dates may be approximate).

KEYWORDS: site inspection, site investigation, hazardous substances storage and disposal, contamination prevention,

FOR DETAILS, CONTACT: John Hills, Division Manager

City of Anaheim; Environmental Services Division

909 E. Vermont; Anaheim, CA 92803

PHONE: (714) 520-6859

This summary information was LAST VERIFIED on: 05/22/1990

City of Anderson; Public Works Department

Street address of Organization: 1887 Howard Street; Anderson, CA 96007

PROGRAM: Large Water Supply System Monitoring - City of Anderson

This large community water system, consisting of approximately 2,300 service connections, is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual supply wells are sampled every 3 years for minerals and organic compounds. Other constituents are tested for occasionally as requested by the Department of Health Services.

The water usage of the community has been modeled allowing projections of future use to be made.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Anderson

THIS ACTIVITY STARTED: 01/01/1956 and CONTINUING as of: 01/04/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Gary Lighthall, Deputy Public Works Director

PHONE: (916) 365-2523

This summary information was LAST VERIFIED on: 01/04/1988

City of Arcadia; Water Division

Street address of Organization: 240 West Huntington Dr.; Arcadia, CA 91007

PROGRAM: City of Arcadia Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Arcadia

THIS ACTIVITY STARTED: 01/01/1965 and CONTINUING as of: 07/05/1990 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Eldon Davidson, Water Manager

PHONE: (818) 574-5412

This summary information was LAST VERIFIED on: 07/05/1990

STUDY: City of Arcadia Raymond Basin Hydrogeologic Study

A hydrogeologic study is underway to determine the hydraulic conditions linking the east and west units of the Raymond Ground Water Basin. Of particular interest is how water pumping in the east unit affects ground water levels in the west unit.

GEOGRAPHIC COVERAGE: City of Arcadia

THIS ACTIVITY STARTED: 01/01/1990 and CONTINUING as of: 07/05/1990 (dates may be approximate).

KEYWORDS: ground water management, ground water usage, hydrogeology, ground water levels, basin, hydrogeology.

FOR DETAILS, CONTACT: Eldon Davidson, Water Manager

PHONE: (818) 574-5412

This summary information was LAST VERIFIED on: 07/05/1990

City of Arroyo Grande; Public Works Department

Street address of Organization: 214 E. Grant Street; Arroyo Grande, CA 93420

Mailing address of Organization: P.O. Box 550; Arroyo Grande, CA 93420

PROGRAM: City of Arroyo Grande Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Arroyo Grande

THIS ACTIVITY STARTED: 07/10/1911 and CONTINUING as of: 08/11/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, enforcement, ground water monitoring, permitting, site inspection, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Paul Karp, Public Works Director

PHONE: (805) 489-1303

This summary information was LAST VERIFIED on: 08/11/1988

PROJECT: Safe Drinking Water Bond Funding Project

In contract with the Department of Water Resources, the city of Arroyo Grande has received a loan under the Safe Drinking Water Bond Law of 1976. The City of Arroyo Grande has used the funds to improve water quality and system reliability for domestic demand.

The first phase of the project involved the drilling of a water well and the construction of a nitrate blending system. In the second phase of the project, one or two more wells having the appropriate blending and/or treatment systems will be constructed.

GEOGRAPHIC COVERAGE: City of Arroyo Grande

THIS ACTIVITY STARTED: 01/01/1980 and CONTINUING as of: 08/11/1988 (dates may be approximate).

KEYWORDS: allocates funds, ground water monitoring, pertinent reports available, planning, site investigation, safe drinking water bond fund, nitrates, water quality, blending, treatment.

FOR DETAILS, CONTACT: Paul Karp, Public Works Director

PHONE: (805) 489-1303

This summary information was LAST VERIFIED on: 08/11/1988

City of Atwater; Public Works Department

Street address of Organization: 750 Bellvue Rd.; Atwater, CA 95301

PROGRAM: City of Atwater Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Atwater

THIS ACTIVITY STARTED: 01/01/1950 and CONTINUING as of: 05/08/1989 (dates may be approximate).

KEYWORDS: allocates funds, enforcement, ground water monitoring, permitting, planning, site inspection, site investigation, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Del Rush, Superintendent of Public Works

PHONE: (209) 358-5606

This summary information was LAST VERIFIED on: 05/08/1989

PROGRAM: City of Atwater Water Well Permitting

The siting, drilling, and construction of new water wells, the deepening and reperforation of existing wells, and the abandonment and destruction of old wells are regulated through a permit program. All counties will be required to adopt a well permitting ordinance in 1990, either the State of California's model ordinance or their own.

References: California Water Code Sections 231, 13800, DWR Bulletin 74-81 (Water Well Standards: State of California); Model Well Ordinance Act (AB3127, Arias, 1986); California Water Code Sections 13701, 13712, 13800, 13801.

GEOGRAPHIC COVERAGE: City of Atwater

THIS ACTIVITY STARTED: 01/01/1975 and CONTINUING as of: 05/08/1989 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, enforcement, ground water monitoring, permitting, planning, site inspection, site investigation, technical support, water wells, construction, abandonment, destruction.

FOR DETAILS, CONTACT: Del Rush, Superintendent of Public Works

PHONE: (209) 358-5606

This summary information was LAST VERIFIED on: 05/08/1989

City of Avenal; Community Development Department

Street address of Organization: 919 Skyline Blvd; Avenal, CA 93204

PROGRAM: City of Avenal Sanitary Landfill Ground Water Monitoring

Monitoring wells located in the vicinity of the sanitary landfill are regularly sampled for any indication of ground water pollution. Samples are collected from the first encountered ground water. Monthly, the wells are sampled and tested for pH and specific conductance. Quarterly, the wells are sampled and tested for chemical oxygen demand (COD), chloride, iron, nitrate, total dissolved solids (TDS), and total hardness; depth to ground water is also noted.

References: The California Code of Regulations, Title 23, Chapter 3, Subchapter 15, and the California Water Code, Section 13273 (Solid Waste Assessment Test/SWAT/Calderon).

GEOGRAPHIC COVERAGE: City of Avenal

THIS ACTIVITY STARTED: 11/01/1989 and CONTINUING as of: 11/21/1989 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, landfill, well, ph, conductance, COD, chloride, iron, nitrate, TDS, total hardness, Subchapter 15, SWAT.

FOR DETAILS, CONTACT: Bruce Barnes, Community Development Director

PHONE: (209) 386-5766

This summary information was LAST VERIFIED on: 11/21/1989

City of Azusa; Light and Water Department

Mailing address of Organization: P.O. Box 9500; Azusa, CA 91702

PROGRAM: City of Azusa Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

CONTINUED FROM: City of Azusa; Light and Water Department
PROGRAM: City of Azusa Large Water Supply Systems Monitoring

GEOGRAPHIC COVERAGE: City of Azusa

THIS ACTIVITY STARTED: 01/01/1972 and **CONTINUING** as of: 04/03/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, ground water monitoring, pertinent reports available, site inspection, site investigation, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Bill Redcay, Water Superintendent

PHONE: (818) 334-0215

This summary information was **LAST VERIFIED** on: 04/03/1990

City of Bakersfield; Water Resources Department

Street address of Organization: 4101 Truxton Avenue; Bakersfield, CA 93309

PROGRAM: City of Bakersfield Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Southwest Bakersfield City (17 square miles)

THIS ACTIVITY STARTED: 01/01/1977 and **CONTINUING** as of: 01/23/1990 (dates may be approximate).

KEYWORDS: enforcement, ground water monitoring, pertinent reports available, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Florn Core, Assistant Director of Water Resources

PHONE: (805) 326-3715

This summary information was **LAST VERIFIED** on: 01/23/1990

PROJECT: City of Bakersfield Ground Water Recharge Project

Water storage is needed to complement dry season water supplies available to Southwest Bakersfield City. Surplus surface waters from the Kern River, Friant-Kern Canal, and California Aqueduct are stored in above average runoff years. The average annual recharge was approximately 50,000 acre-feet over the last 15 years. It is retrieved during dry seasons for domestic and agricultural purposes.

GEOGRAPHIC COVERAGE: Southwest Bakersfield City (17 square miles)

THIS ACTIVITY STARTED: 01/01/1977 and **CONTINUING** as of: 01/23/1990 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, planning, site investigation, ground water recharge, surplus surface water.

FOR DETAILS, CONTACT: Florn Core, Assistant Director of Water Resources

PHONE: (805) 326-3715

This summary information was **LAST VERIFIED** on: 01/23/1990

City of Banning; Public Works Department

Mailing address of Organization: P.O. Box 998; Banning, CA 92220

PROGRAM: City of Banning--Large Water Supply Systems Monitoring Program

The community water system consisting of more than 5866 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Banning

THIS ACTIVITY STARTED: 01/01/1968 and **CONTINUING** as of: 11/22/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Lou Burt, Water Supervisor

PHONE: (714) 922-1242

This summary information was **LAST VERIFIED** on: 11/22/1988

City of Barstow; Department of Community Services; Water Reclamation

Street address of Organization: 2200 Riverside Drive; Barstow, CA 92311

Mailing address of Organization: 220 East Mountain View; Barstow, CA 92311

PROJECT: Wastewater Irrigation Project

Waste discharge requirements, Board Order #6-85-60, requires the groundwater monitoring of five wells under two irrigation sites located on both sides of the Mojave River in the area of the City of Barstow wastewater reclamation plant.

GEOGRAPHIC COVERAGE: City of Barstow, Area of the Wastewater Reclamation Plant

THIS ACTIVITY STARTED: 01/01/1982 and CONTINUING as of: 09/06/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, board order #6-85-60, waste discharge, wastewater reclamation.

FOR DETAILS, CONTACT: Marshall Webb, Superintendent

PHONE: (619) 256-3531

This summary information was LAST VERIFIED on: 09/06/1988

City of Berkeley; Department of Health and Human Services; Division of Environmental Health

Street address of Organization: 2180 Millvia Street; Berkeley, CA 94704

PROGRAM: City of Berkeley Hazardous Materials Spills

The city prepares an area-wide emergency response plan to hazardous materials spills as outlined by the Office of Emergency Services. The emergency response plan outlines the responsibilities of the agencies involved. Events are coordinated with the appropriate incident commander, resources necessary to handle the spill are gathered, the spill is isolated and the media are informed. Appropriate people are called in to assess the extent of needed cleanup procedures.

All individual businesses that handle hazardous materials must submit to the city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public. The threshold for inclusion in the plan and inventory requirements is lower than in the state legislation.

The city has assumed the responsibility of preparing an emergency response plan within its jurisdiction by enacting an ordinance. The city coordinates its activities with the county.

Inventory and some business plan data are stored on the city's Hazardous Materials Inventory Database.

Information on hazardous materials spills which result in contamination and related cleanup activities is included in the city's Land Use Planning and Emergency Response Database.

References: AB2185 (1985, Waters); AB3777 (1986, La Follette); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.; Proposition 65; City of Berkeley Ordinance 5662NS.

GEOGRAPHIC COVERAGE: City of Berkeley

THIS ACTIVITY STARTED: 07/01/1986 and CONTINUING as of: 09/14/1988 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, planning, site inspection, hazardous material spills, emergency response plan, inventory, AB2185, threshold.

FOR DETAILS, CONTACT: Britt Johnson, Hazardous Materials Specialist

PHONE: (415) 644-6510

This summary information was LAST VERIFIED on: 09/14/1988

PROGRAM: City of Berkeley Hazardous Waste Generator Inspection Program

Inspection of hazardous waste generators is performed by the Department of Health Services (DHS) and the City of Berkeley Department of Health and Human Services, Division of Environmental Health (City), under Article 8 of the Health and Safety Code, Section 25180. DHS has lead responsibility for facilities which require a permit from DHS; the City has lead responsibility for facilities, within Berkeley, which do not require a DHS permit.

Facilities which store, handle, process, dispose of, or treat hazardous materials (including infectious wastes) are inspected annually. The inspection records are stored in the property files and administrative information is stored on the city's Land Use Planning and Emergency Response Database. Reports on this program are written monthly and annually.

Reference: Health and Safety Code, Article 8, Section 25180.

GEOGRAPHIC COVERAGE: City of Berkeley

THIS ACTIVITY STARTED: 07/01/1988 and CONTINUING as of: 09/14/1988 (dates may be approximate).

KEYWORDS: administrative support, enforcement, permitting, pertinent reports available, site inspection, hazardous waste generator inspections, hazardous waste, infectious waste, waste storage, waste handling, waste treatment, resource recovery.

FOR DETAILS, CONTACT: Britt Johnson, Hazardous Materials Specialist

PHONE: (415) 644-6510

This summary information was LAST VERIFIED on: 09/14/1988

CONTINUED FROM: City of Berkeley; Department of Health and Human Services; Division of Environmental Health

PROGRAM: City of Berkeley Underground Tanks Program

Regulations apply to the design, construction, closure and abandonment of underground storage tanks. These regulations also apply to the monitoring and drainage systems installed at the tank locations.

Regulations are enforced through a permit program. Permits for underground tanks are renewed, modified or terminated based on an inspection of the tank and monitoring system. The permit is valid for 5 years, whereas the underground tank and the monitoring records are inspected every year.

Groundwater monitoring wells are installed and tested as required near sites of underground tank contamination.

Underground tank data are reported to SWEEPS and are maintained on the city's Land Use Planning and Emergency Response Database.

References: The California Code of Regulations, Title 23, Chapter 3, Subchapter 16; City of Berkeley Ordinance 5684NS.

GEOGRAPHIC COVERAGE: City of Berkeley

THIS ACTIVITY STARTED: 02/01/1986 and CONTINUING as of: 09/14/1988 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, permitting, planning, site inspection, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Britt Johnson, Hazardous Materials Specialist

PHONE: (415) 644-6510

This summary information was LAST VERIFIED on: 09/14/1988

City of Berkeley; Planning and Community Development Department; Codes and Inspections Division

Street address of Organization: 2180 Millvia Street; Berkeley, CA 94704

PROGRAM: City of Berkeley Water Well Permitting

Regulations govern the siting, drilling and construction of new water wells, the deepening and reperforming of existing wells, and the abandonment and destruction of old wells. Regulations are enforced by the Planning and Community Development Department through a permit program. Due to the high groundwater table in the Berkeley area, a plan for drilling must also be submitted to the regulating department during the permit application process.

The water well drillers' reports are stored in the City of Berkeley Land Use Planning and Emergency Response Database maintained by the City's Department of Health and Human Services.

GEOGRAPHIC COVERAGE: City of Berkeley

THIS ACTIVITY STARTED: 01/01/1969 and CONTINUING as of: 10/07/1988 (dates may be approximate).

KEYWORDS: enforcement, permitting, water wells, construction, abandonment, destruction, drilling plan.

FOR DETAILS, CONTACT: Robert Gamblin, Supervising Building Inspector

PHONE: (415) 644-6550

This summary information was LAST VERIFIED on: 10/07/1988

City of Berkeley; Public Works Department

Street address of Organization: 2180 Millvia Street; Berkeley, CA 94704

PROGRAM: City of Berkeley Sanitary Landfill Monitoring Program

The Berkeley Landfill is a 90-acre site located on a peninsula, surrounded on three sides by San Francisco Bay. Leachate collection and monitoring wells have been installed on the fourth side, at the perimeter of the landfill. The City's Public Works Department conducts a site specific groundwater contamination detection program as defined and required by the RWQCB.

High and low tide levels are noted periodically, and groundwater elevation is continuously monitored, to determine if leachate from the landfill is leaking into the Bay. The wells are sampled annually and tested for conductivity, pH, odor, color, dissolved sulfides and TOC.

Reports are produced quarterly and annually for the RWQCB.

References: The California Code of Regulations, Title 23, Chapter 3, Subchapter 15, and the California Water Code, Section 13273 (Solid Waste Assessment Test/SWAT/Calderon).

GEOGRAPHIC COVERAGE: City of Berkeley

THIS ACTIVITY STARTED: 07/12/1979 and CONTINUING as of: 10/05/1988 (dates may be approximate).

KEYWORDS: enforcement, ground water monitoring, pertinent reports available, landfill, water level, tide level, leachate, conductivity, odor, color, dissolved sulfides, ph, toc.

FOR DETAILS, CONTACT: Dennis Wells, Assistant Director of Public Works

PHONE: (415) 644-6506

This summary information was LAST VERIFIED on: 10/05/1988

City of Blythe; Public Works Department

Street address of Organization: 440 South Main; Blythe, CA 92225

PROGRAM: City of Blythe--Large Water Supply Systems Monitoring Program

The community water system consisting of 2415 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Blythe

THIS ACTIVITY STARTED: 01/01/1956 and CONTINUING as of: 11/29/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Les Warning, Public Works Director

PHONE: (619) 922-6130

This summary information was LAST VERIFIED on: 11/29/1988

City of Brea; Department of Maintenance Services

Street address of Organization: #1 Civic Center Circle; Brea, CA 92621

PROGRAM: City of Brea Large Water Supply Systems Monitoring Program

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Brea

THIS ACTIVITY STARTED: 01/01/1970 and CONTINUING as of: 05/08/1990 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Patrick McCarron, Director of Maintenance Services

PHONE: (714) 990-7648

This summary information was LAST VERIFIED on: 05/08/1990

STUDY: City of Brea Golf Course Well Study

Expanding the capacity of a water supply well on a City of Brea golf course is an option for meeting expanded irrigation needs. The purpose of this study is to determine how much well water is available and the quality of the water.

GEOGRAPHIC COVERAGE: City of Brea

THIS ACTIVITY STARTED: 04/02/1990 and CONTINUING as of: 05/08/1990 (dates may be approximate).

KEYWORDS: ground water management, ground water usage, hydrogeology, project planning, well water quantity and quality, irrigation water.

FOR DETAILS, CONTACT: Patrick McCarron, Director of Maintenance Services

PHONE: (714) 990-7648

This summary information was LAST VERIFIED on: 05/08/1990

City of Brea; Fire Department

Street address of Organization: No. 1 Civic Center Drive; Brea, CA 92621

PROGRAM: City of Brea Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

CONTINUED FROM: City of Brea; Fire Department**PROGRAM: City of Brea Hazardous Materials Spills Emergency Response**

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Brea

THIS ACTIVITY STARTED: 11/13/1981 and CONTINUING as of: 05/30/1990 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, pertinent reports available, planning, site inspection, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Bill Simpkins, Fire Marshall

PHONE: (714) 990-7656

This summary information was LAST VERIFIED on: 05/30/1990

City of Brentwood

Street address of Organization: 708 Third Street; Brentwood, CA 94513

Mailing address of Organization: 708 Third Street; Brentwood, CA 94513

PROGRAM: Large Water Supply Systems Monitoring

The City of Brentwood's water system (consisting of approximately 2300 service connections) is regularly sampled at random distribution points for total coliform concentration, nitrates, hardness and chlorine residuals. High levels of nitrates have been discovered at specific wells; high levels of boron have also been discovered. The source of these constituents is presently under investigation. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Brentwood

THIS ACTIVITY STARTED: 01/01/1966 and CONTINUING as of: 04/17/1989 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, planning, site inspection, technical support, random, constituents, nitrates, boron.

FOR DETAILS, CONTACT: Richard Novarro, Treatment Plant Operator

PHONE: (415) 634-4181

This summary information was LAST VERIFIED on: 04/17/1989

City of Buena Park; Fire Department

Street address of Organization: 8081 Western Ave; Buena Park, CA 90620

PROGRAM: City of Buena Park Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Buena Park

THIS ACTIVITY STARTED: 10/01/1987 and CONTINUING as of: 05/22/1990 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, pertinent reports available, planning, site inspection, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Sam Winner, Fire Chief

PHONE: (714) 521-9900

This summary information was LAST VERIFIED on: 05/22/1990

City of Calexico; Fire Department

Street address of Organization: 430 East 5th Street; Calexico, CA 92231

PROGRAM: City of Calexico Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Calexico

THIS ACTIVITY STARTED: 01/01/1986 and CONTINUING as of: 03/14/1990 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, pertinent reports available, planning, site inspection, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Rigo Saloria, Fire Chief

PHONE: (619) 357-1165

This summary information was LAST VERIFIED on: 03/14/1990

City of California; Fire Department

Street address of Organization: 20890 Hacienda Blvd; California City, CA 93505

PROGRAM: California City Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

The city assumes the responsibility of preparing an emergency response plan and administering this program within its jurisdiction by enacting an ordinance. If the city assumes this responsibility, its response must be coordinated with the county's response program.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: California City

THIS ACTIVITY STARTED: 01/01/1988 and CONTINUING as of: 01/30/1990 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, planning, site inspection, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Robert Smith, Fire Engineer/Training Officer

PHONE: (619) 373-4841

This summary information was LAST VERIFIED on: 01/30/1990

City of California; Public Works Department

Mailing address of Organization: 21000 Hacienda Blvd; California City, CA 93505

PROGRAM: City of California Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of California

THIS ACTIVITY STARTED: 01/01/1965 and CONTINUING as of: 03/07/1990 (dates may be approximate).

CONTINUED FROM: City of California; **Public Works Department**
PROGRAM: City of California Large Water Supply Systems Monitoring

KEYWORDS: enforcement, ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Richard Mangnall, Director

PHONE: (619) 373-8661

This summary information was **LAST VERIFIED** on: 03/07/1990

City of Campbell; Fire Department

Street address of Organization: 123 South Union Ave; Campbell, CA 95008

PROGRAM: City of Campbell Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

The city may assume the responsibility of preparing an emergency response plan and administering this program within its jurisdiction by enacting an ordinance. If the city assumes this responsibility, its response must be coordinated with the county's response program.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Campbell

THIS ACTIVITY STARTED: 12/31/1983 and **CONTINUING** as of: 03/07/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, ground water modeling, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Reinhard Hanselka, Consultant

PHONE: (408) 866-2189

This summary information was **LAST VERIFIED** on: 03/07/1990

PROGRAM: City of Campbell Underground Storage Tanks Regulation

The design, construction, closure and abandonment of storage tanks are regulated by a permit program. Permits for underground tanks are renewed, modified or terminated based on an inspection of the tank, drainage system, and monitoring system. The permit is valid for 3 years and cannot be renewed unless the underground tank has been inspected within the prior year. More frequent testing is often required to determine that the monitoring system is capable of determining the containment ability of the underground storage tank and detecting any active or future unauthorized releases.

References: California Code of Regulations, Title 23, Chapter 3, Subchapter 16; 1988 Uniform Fire Code, Articles 79 & 80.

GEOGRAPHIC COVERAGE: City of Campbell

THIS ACTIVITY STARTED: 04/01/1984 and **CONTINUING** as of: 03/07/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Reinhard Hanselka, Consultant

PHONE: (408) 866-2189

This summary information was **LAST VERIFIED** on: 03/07/1990

City of Carlsbad; Fire Department

Street address of Organization: 2560 Orion Way; Carlsbad, CA 92008

PROGRAM: City of Carlsbad Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

CONTINUED FROM: City of Carlsbad; Fire Department**PROGRAM: City of Carlsbad Hazardous Materials Spills Emergency Response**

All individual businesses that handle hazardous materials must submit to the county their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Carlsbad

THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 04/05/1990 (dates may be approximate).

KEYWORDS: administrative support, enforcement, ground water modeling, pertinent reports available, site inspection, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Mike Smith, Fire Marshal

PHONE: (619) 931-2121

This summary information was LAST VERIFIED on: 04/05/1990

City of Ceres; Public Works Department

Street address of Organization: 2720 Second Street; Ceres, CA 95307

Mailing address of Organization: P.O. Box 217; Ceres, CA 95307

PROGRAM: City of Ceres Dry Well and French Drain Storm Water Disposal Program

The city of Ceres has 76 dry wells and 2 French drains which are used for the disposal of storm water.

GEOGRAPHIC COVERAGE: City of Ceres

THIS ACTIVITY STARTED: 01/01/1918 and CONTINUING as of: 10/04/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, planning, french drains, storm water, dry wells.

FOR DETAILS, CONTACT: Joe Hollstein, Director

PHONE: (209) 538-5789

This summary information was LAST VERIFIED on: 10/04/1988

PROGRAM: City of Ceres Ground Water Recharge Program

Disposal of treated effluent through percolation into the groundwater.

GEOGRAPHIC COVERAGE: City of Ceres

THIS ACTIVITY STARTED: 01/01/1960 and CONTINUING as of: 10/04/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, planning, percolation, extended aeration, recharge, secondary treatment standards.

FOR DETAILS, CONTACT: Joe Hollstein, Director

PHONE: (209) 538-5789

This summary information was LAST VERIFIED on: 10/04/1988

PROGRAM: City of Ceres Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Ceres

THIS ACTIVITY STARTED: 01/01/1965 and CONTINUING as of: 10/04/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Joe Hollstein, Director

PHONE: (209) 538-5789

This summary information was LAST VERIFIED on: 10/04/1988

PROGRAM: City of Ceres Water Well Permitting

Regulations govern the siting, drilling and construction of new water wells, the deepening and re-perforating of existing wells, and the abandonment and destruction of old wells. Regulations are enforced through a permit program.

City ordinance restricts the installation of new water wells without city council approval.

References: California Water Code Sections 231, 13800, DWR Bulletin 74-81 (Water Well Standards: State of California).

GEOGRAPHIC COVERAGE: City of Ceres

CONTINUED FROM: City of Ceres; Public Works DepartmentPROGRAM: City of Ceres Water Well Permitting

THIS ACTIVITY STARTED: 01/01/1975 and CONTINUING as of: 10/04/1988 (dates may be approximate).

KEYWORDS: enforcement, permitting, water wells, construction, abandonment, destruction.

FOR DETAILS, CONTACT: Joe Hollstein, Director

PHONE: (209) 538-5789

This summary information was LAST VERIFIED on: 10/04/1988

City of Chino; Public Works Department

Street address of Organization: 5050 Schaefer; Chino, CA 91710

PROGRAM: City of Chino--Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Some wells are tested weekly for nitrates. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Chino

THIS ACTIVITY STARTED: 01/01/1974 and CONTINUING as of: 09/09/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, nitrates, Title 22, AB1803.

FOR DETAILS, CONTACT: Tom Smith, Utilities Superintendent

PHONE: (714) 591-9837

This summary information was LAST VERIFIED on: 09/09/1988

City of Clearlake; Planning Department

Mailing address of Organization: P.O. Box 2440; Clearlake, CA 95422

PROGRAM: General Plan and Development Regulations for the City of Clearlake

The General Plan for the City of Clearlake is in compliance with Government Code regarding land use, housing, safety, noise, open space, conservation and public facilities.

This program develops regulations concerned with zoning, subdivision, and public improvements; it administers permit applications, development and environmental reviews, including review of groundwater concerns.

GEOGRAPHIC COVERAGE: City of Clearlake

THIS ACTIVITY STARTED: 11/01/1980 and CONTINUING as of: 01/18/1988 (dates may be approximate).

KEYWORDS: permitting, planning, zoning, groundwater development, environmental reviews.

FOR DETAILS, CONTACT: Daniel A. Obermeyer, Director of City Planning

PHONE: (707) 994-8201

This summary information was LAST VERIFIED on: 01/18/1988

PROJECT: City of Clearlake Miller Creek Storm Drain Report

This project is involved with the planning and construction of storm drainage improvements in the Miller Creek area that is expected to affect Groundwater recharge.

GEOGRAPHIC COVERAGE: City of Clearlake

THIS ACTIVITY STARTED: 03/01/1987 and ENDED: 03/01/1988 (dates may be approximate).

KEYWORDS: planning, groundwater recharge, storm drainage.

FOR DETAILS, CONTACT: Larry Inman, City Engineer

PHONE: (707) 994-8201

This summary information was LAST VERIFIED on: 01/18/1988

STUDY: Geothermal Exploration Studies, Clearlake

Geothermal Resources below the city were defined using shallow wells (approximately 500 feet), three meter temperature survey and radon survey. Groundwater temperatures and chemical compositions were determined.

Data is incorporated into the Technical Background papers of the General Plan and Development Regulations Program for the City of Clearlake.

GEOGRAPHIC COVERAGE: City of Clearlake

THIS ACTIVITY STARTED: 01/01/1986 and ENDED: 06/01/1987 (dates may be approximate).

KEYWORDS: hydrogeology, pertinent reports available, project planning, groundwater temperature, geothermal, chemistry.

FOR DETAILS, CONTACT: Daniel A. Obermeyer, Director of City Planning

PHONE: (707) 994-8201

This summary information was LAST VERIFIED on: 01/18/1988

CONTINUED FROM: City of Clearlake; Planning Department

STUDY: Storm Drainage Master Plan for Burns Valley Creek Watershed

Storm drainage problems and possible solutions for Burn Valley Creek flooding were identified in this study. Impacts on groundwater recharge were also evaluated.

GEOGRAPHIC COVERAGE: City of Clearlake

THIS ACTIVITY STARTED: 11/01/1980 and ENDED: 04/01/1982 (dates may be approximate).

KEYWORDS: hydrogeology, groundwater recharge, flooding, storm drainage.

FOR DETAILS, CONTACT: Larry Inman, City Engineer

PHONE: (707) 994-8201

This summary information was LAST VERIFIED on: 01/18/1988

STUDY: Transient Electro-Magnetic Central Induction Soundings

Subsurface rock resistivities were measured in an attempt to determine the location and extent of hot water zones. This information was used as an aid to picking the best drill sites for direct use exploration.

GEOGRAPHIC COVERAGE: City of Clearlake

THIS ACTIVITY STARTED: 07/01/1986 and ENDED: 11/01/1986 (dates may be approximate).

KEYWORDS: hydrogeology, project planning, groundwater temperature, geothermal, rock resistivities, drill sites, exploration.

FOR DETAILS, CONTACT: Daniel A. Obermeyer, Director of City Planning

PHONE: (707) 994-8201

This summary information was LAST VERIFIED on: 01/18/1988

City of Coachella; Public Works Department

Street address of Organization: 1515 Sixth Street; Coachella, CA 92236

PROGRAM: City of Coachella--Regulation of On-Site Sewage Disposal Systems

The installation and maintenance of individual sewage disposal systems consisting of septic tanks and leach fields are regulated by a permit program. This program conducts percolation tests to determine the suitability of the leach field for treating wastes, checks for setback before issuing building permits, and ensures that there is good separation from water supply wells. Test records are sent to the Regional Water Quality Control Board.

GEOGRAPHIC COVERAGE: City of Coachella

THIS ACTIVITY STARTED: 01/01/1950 and CONTINUING as of: 09/23/1988 (dates may be approximate).

KEYWORDS: enforcement, permitting, planning, site inspection, technical support, septic tanks, sewage, leach fields, percolation tests, wells.

FOR DETAILS, CONTACT: Bill Kersteiner, Sanitation Superintendent

PHONE: (619) 398-1102

This summary information was LAST VERIFIED on: 09/23/1988

PROGRAM: City of Coachella--Small Water Supply Systems Monitoring Program

The community water system consisting of less than 200 service connections is sampled weekly at random distribution points for total coliform concentration. Individual community supply wells are sampled every 3 years for minerals and organic compounds. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Coachella

THIS ACTIVITY STARTED: 01/01/1970 and CONTINUING as of: 09/23/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply, organics, minerals, wells, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Bill Kersteiner, Sanitation Superintendent

PHONE: (619) 398-1102

This summary information was LAST VERIFIED on: 09/23/1988

PROGRAM: City of Coachella--Water Well Permitting

The siting, drilling and construction of new water wells, the deepening and reoperating of existing wells, and the abandonment and destruction of old wells are regulated through a permit program. After 1990, all counties will be required to adopt a well permitting ordinance, either a State model ordinance or their own.

References: California Water Code Sections 231, 13800, DWR Bulletin 74-81 (Water Well Standards: State of California); Model Well Ordinance Act (AB3127, Arias, 1986); California Water Code Sections 13701, 13712, 13800, 13801.

GEOGRAPHIC COVERAGE: City of Coachella

CONTINUED FROM: City of Coachella; Public Works DepartmentPROGRAM: City of Coachella--Water Well Permitting

THIS ACTIVITY STARTED: 01/01/1959 and CONTINUING as of: 09/23/1988 (dates may be approximate).

KEYWORDS: enforcement, permitting, water wells, construction, abandonment, destruction.

FOR DETAILS, CONTACT: Bill Kersteiner, Sanitation Superintendent

PHONE: (619) 398-1102

This summary information was LAST VERIFIED on: 09/23/1988

City of Coalinga; Public Works Department

Street address of Organization: 160 West Elm Street; Coalinga, CA 93210

PROJECT: City of Coalinga Monterey Avenue Extension Drainage and Recharge Pond

Water from a drainage basin (under construction) will be allowed to percolate and thus recharge the ground water. The dimensions of this recharge pond will be 100 by 100 feet and approximately 10 to 15 feet deep.

GEOGRAPHIC COVERAGE: City of Coalinga

THIS ACTIVITY STARTED: 02/01/1989 and CONTINUING as of: 09/07/1989 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, drainage basin, recharge pond.

FOR DETAILS, CONTACT: Enrique Bruque, Director

PHONE: (209) 935-1534

This summary information was LAST VERIFIED on: 09/07/1989

City of Colusa; Public Works Department

Street address of Organization: 425 Webster Street; Colusa, CA 95932

PROGRAM: Large Water Supply System Monitoring - City of Colusa

This large community water system, consisting of approximately 1700 service connections, is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Colusa

THIS ACTIVITY STARTED: 01/01/1961 and CONTINUING as of: 02/12/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Millard Totman, Public Works Director

PHONE: (916) 458-4941

This summary information was LAST VERIFIED on: 02/12/1988

PROGRAM: Sewage Treatment Plant - Overland Flow, City of Colusa

An overland flow system was developed and is maintained as part of this program in order to meet State waste water discharge requirements. Treated waste water discharged from the Colusa Sewage Treatment Plant is allowed to flow across a large meadow, resulting in increased evaporation and percolation. This increased percolation can result in recharge of underlying aquifers.

GEOGRAPHIC COVERAGE: City of Colusa

THIS ACTIVITY STARTED: 01/01/1986 and CONTINUING as of: 02/12/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, sewage, BOD, suspended solids.

FOR DETAILS, CONTACT: Ron Loudon, Water and Sewer Supervisor

PHONE: (916) 458-4266

This summary information was LAST VERIFIED on: 02/12/1988

City of Corcoran Water System; Public Works Department

Street address of Organization: 1033 Chittenden Ave; Corcoran, CA 93212

PROGRAM: Corcoran Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Corcoran Area

THIS ACTIVITY STARTED: 11/12/1930 and CONTINUING as of: 11/21/1989 (dates may be approximate).

CONTINUED FROM: City of Corcoran Water System; Public Works Department
 PROGRAM: Corcoran Large Water Supply Systems Monitoring

KEYWORDS: administrative support, allocates funds, enforcement, ground water monitoring, planning, site inspection, site investigation, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Allyn Waggle, Director
 PHONE: (209) 992-2151

This summary information was LAST VERIFIED on: 11/21/1989

PROGRAM: Corcoran Underground Storage Tanks Regulation

The closure and abandonment of storage tanks are regulated by a permit program. Permits for underground tanks are renewed, modified, or terminated based on an inspection of the tank, drainage system, and monitoring system. The permit is valid for 5 years and cannot be renewed unless the underground tank has been inspected within the prior 3 years. More frequent testing is usually required since any monitoring system must be capable of determining the containment ability of the underground storage tank and detecting any active or future unauthorized releases.

References: California Code of Regulations, Title 23, Chapter 3, Subchapter 16; 1988 Uniform Fire Code, Articles 79 & 80.

GEOGRAPHIC COVERAGE: Corcoran Area

THIS ACTIVITY STARTED: 07/01/1985 and CONTINUING as of: 11/23/1989 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water monitoring, technical support, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Allyn Waggle, Director

PHONE: (209) 992-2151

This summary information was LAST VERIFIED on: 11/23/1989

City of Corona; Utilities Services Department

Street address of Organization: 815 West Sixth Street; Corona, CA 91720

PROGRAM: City of Corona--Large Water Supply Systems Monitoring Program

The community water system consisting of approximately 16,500 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Corona, Temescal Canyon, Cornita, and Green River

THIS ACTIVITY STARTED: 01/01/1964 and CONTINUING as of: 12/06/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Dan Parks, Deputy Utilities Director

PHONE: (714) 736-2438

This summary information was LAST VERIFIED on: 12/06/1988

City of Daly City

Street address of Organization: 153 Lake Merced Blvd; Daly City, CA 94015

STUDY: City of Daly City Ground Water Study

The aquifer which supplies Daly City with potable water is characterized. The effect on the aquifer of pumpage from public wells, as well as from some private wells, is considered. This study is an update of a 1972 ground water study.

GEOGRAPHIC COVERAGE: City of Daly City and Adjacent Areas

THIS ACTIVITY STARTED: 01/09/1987 and CONTINUING as of: 03/31/1989 (dates may be approximate).

KEYWORDS: ground water management, ground water usage, hydrogeology, pertinent reports available, studies ground water pollutant transport, ground water supply, aquifer characteristics, daly city, private users.

FOR DETAILS, CONTACT: Michael Ebramson,

PHONE: (415) 755-6557

This summary information was LAST VERIFIED on: 03/31/1989

City of Davis; Community Development Department

Street address of Organization: 23 Russell Blvd.; Davis, CA 95616

PROGRAM: City of Davis General Plan

Part of Davis' General Plan is concerned with the continued supply of an adequate quantity and quality of water to the city. The long range water plan, when implemented, will address the following issues:

- determining long range needs
- feasibility of importing water
- water use reduction plans
- monitoring groundwater to preserve quality and quantity
- re-use of wastewater
- storm water groundwater recharge
- impact of injection wells in area

GEOGRAPHIC COVERAGE: City of Davis

THIS ACTIVITY STARTED: 01/01/1988 and CONTINUING as of: 03/16/1988 (dates may be approximate).

KEYWORDS: allocates funds, pertinent reports available, planning, general plan, recharge, wastewater, injection wells.

FOR DETAILS, CONTACT: Thomas Lumbrazo, Community Development Director

PHONE: (916) 756-3746

This summary information was LAST VERIFIED on: 03/16/1988

City of Davis; Public Works Department

Street address of Organization: 23 Russell Blvd.; Davis, CA 95616

PROGRAM: Groundwater Contamination Site Monitoring - City of Davis

Groundwater contamination sites in the vicinity of Davis are regularly appraised in order to determine if any future impact to the city is possible. The actual monitoring of these sites is performed by other agencies. Some monitoring data is on file, as are the monthly status reports submitted to the Davis City Council. There are currently six sites under observation.

GEOGRAPHIC COVERAGE: City of Davis

THIS ACTIVITY STARTED: 01/01/1983 and CONTINUING as of: 05/19/1988 (dates may be approximate).

KEYWORDS: allocates funds, pertinent reports available, planning, site inspection, site investigation, groundwater contamination, hazardous materials.

FOR DETAILS, CONTACT: Don Lemmon, Senior Civil Engineer

PHONE: (916) 756-3749

This summary information was LAST VERIFIED on: 05/19/1988

PROGRAM: Large Water Supply System Monitoring - City of Davis

This large community water system consists of 17 wells and approximately 10,500 service connections. Two additional wells are under construction. The system is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 16 months for minerals and organic compounds. Four chlorinated wells are tested twice yearly for trihalomethanes. Other constituents are tested for occasionally if deemed necessary by the Public Works Department or if requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Davis

THIS ACTIVITY STARTED: 01/01/1961 and CONTINUING as of: 05/19/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, trihalomethane, Title 22, AB1803.

FOR DETAILS, CONTACT: Don Lemmon, Senior Civil Engineer

PHONE: (916) 756-3749

This summary information was LAST VERIFIED on: 05/19/1988

PROGRAM: Water System Management Plan - City of Davis

This work plan will result in a viable water system management plan to be used by the City of Davis to assure an adequate (in both quality and quantity) water supply for the people in the most economical, efficient, and reliable manner.

This statement of work is divided into the following ten tasks:

1. Project Management
2. Data Collection and Review
3. Develop Hydraulic Model
4. Investigate Groundwater Conditions
5. Alternatives Analysis
6. Prepare Staged Capital Improvement Program
7. Evaluate Revenue Program

CONTINUED FROM: City of Davis; Public Works Department
PROGRAM: Water System Management Plan - City of Davis

8. Provide Summary Report
9. Develop Water Conservation Guidelines
10. Prepare Urban Water Management Plan

GEOGRAPHIC COVERAGE: City of Davis
THIS ACTIVITY STARTED: 04/01/1988 and ENDED: 12/31/1988 (dates may be approximate).
KEYWORDS: administrative support, ground water modeling, pertinent reports available, planning, water supply system, alternative sources, well yields, management, data collection, conservation.
FOR DETAILS, CONTACT: Don Lemmon, Senior Civil Engineer
PHONE: (916) 756-3749 This summary information was LAST VERIFIED on: 05/19/1988

City of Del Mar; Fire Department

Street address of Organization: 2200 Jimmy Burante Blvd; Del Mar, CA 92014

PROGRAM: City of Del Mar Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed

All individual businesses that handle hazardous materials must submit to the city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

The city assume the responsibility of preparing an emergency response plan and administering this program within its jurisdiction by enacting an ordinance. If the city assumes this responsibility, its response must be coordinated with the county's response program.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Del Mar
THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 02/21/1990 (dates may be approximate).
KEYWORDS: administrative support, ground water monitoring, planning, site inspection, site investigation, hazardous material spills, emergency response plan, inventory, AB2185.
FOR DETAILS, CONTACT: Tom Wolf, Fire Prevention Officer
PHONE: (619) 755-1522 This summary information was LAST VERIFIED on: 02/21/1990

PROGRAM: City of Del Mar Underground Storage Tanks Regulation

The city identifies areas that have underground storage tanks and collects information on names of establishments (facilities) that have tanks, their location, the number of tanks at each location, the capacity of each tank, and the contents of each tank. Each underground storage tank identified is tested once a year by the city for tightness. The design, construction, closure and abandonment of storage tanks are regulated by the county through a permit program.

GEOGRAPHIC COVERAGE: City of Del Mar
THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 02/21/1990 (dates may be approximate).
KEYWORDS: administrative support, ground water monitoring, pertinent reports available, site inspection, site investigation, technical support, underground tank, hazardous material spills, Subchapter 16.
FOR DETAILS, CONTACT: Tom Wolf, Fire Prevention Officer
PHONE: (619) 755-1522 This summary information was LAST VERIFIED on: 02/21/1990

City of Delano; Public Works Department

Mailing address of Organization: P.O. Box 939; Delano, CA 93216

PROGRAM: City of Delano Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Delano

CONTINUED FROM: City of Delano; Public Works DepartmentPROGRAM: City of Delano Large Water Supply Systems Monitoring

THIS ACTIVITY STARTED: 01/01/1970 and CONTINUING as of: 01/30/1990 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Ed Mino, City Engineer

PHONE: (805) 725-4961

This summary information was LAST VERIFIED on: 01/30/1990

City of Dinuba; Public Works Department

Street address of Organization: 110 South College Drive; Dinuba, CA 93618

PROGRAM: City of Dinuba Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled quarterly for minerals and organic compounds, and every year for radioactivity. Other constituents are tested for occasionally as requested for by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Dinuba

THIS ACTIVITY STARTED: 01/01/1982 and CONTINUING as of: 12/28/1989 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Dena Seder, Water Analyst

PHONE: (209) 591-3725

This summary information was LAST VERIFIED on: 12/28/1989

STUDY: City of Dinuba Hydrogeologic Study

The ground water basin and surrounding area is mapped and otherwise characterized to determine the occurrence of ground water based upon water levels, contour maps, and analysis of subsurface geology (the location of permeable layers and clay layers). Ground water quality analysis, especially for DBCP, are part of the study.

GEOGRAPHIC COVERAGE: City of Dinuba

THIS ACTIVITY STARTED: 01/11/1989 and CONTINUING as of: 12/28/1989 (dates may be approximate).

KEYWORDS: ground water management, ground water usage, hydrogeology, pertinent reports available, studies extent of ground water pollution, studies ground water pollutant transport, ground water level, contour maps, DBCP analysis, geologic data.

FOR DETAILS, CONTACT: Dena Seder, Water Analyst

PHONE: (209) 591-3725

This summary information was LAST VERIFIED on: 12/28/1989

City of El Monte; Public Works Department

Street address of Organization: 11333 Valley Blvd.; El Monte, CA 91731

PROGRAM: City of El Monte Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every year for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of El Monte

THIS ACTIVITY STARTED: 01/01/1975 and CONTINUING as of: 05/09/1990 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Robert Pinniger, Director of Public Works

PHONE: (818) 580-5056

This summary information was LAST VERIFIED on: 05/09/1990

City of El Segundo; Fire Department

Street address of Organization: 314 Main Street; El Segundo, CA 90245

PROGRAM: City of El Segundo Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of El Segundo

THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 07/19/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, permitting, planning, site inspection, site investigation, technical support, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Gene Bell, Fire Marshall

PHONE: (213) 322-4311

This summary information was LAST VERIFIED on: 07/19/1990

City of Escalon

Mailing address of Organization: P.O. Box 248; Escalon, CA 95320

PROGRAM: City of Escalon Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Escalon

THIS ACTIVITY STARTED: 01/01/1983 and CONTINUING as of: 08/10/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Larry Test, City Engineer

City of Escalon; Kjeldsen-Sinnock and Associates

mailing address: P.O. Box 844; Stockton, CA 95201

PHONE: (209) 946-0268

This summary information was LAST VERIFIED on: 08/10/1988

PROGRAM: City of Escalon Regulation of On-Site Sewage Disposal Systems

The installation and maintenance of individual sewage disposal systems consisting of septic tanks and leach fields are regulated by a permit program. This program conducts percolation tests to determine the suitability of the leach field for treating wastes, checks for setback before issuing building permits, and ensures that there is good separation from water supply wells.

GEOGRAPHIC COVERAGE: City of Escalon

THIS ACTIVITY STARTED: 01/01/1965 and CONTINUING as of: 08/10/1988 (dates may be approximate).

KEYWORDS: enforcement, permitting, planning, site inspection, technical support, septic tanks, sewage, leach fields, percolation tests, wells.

FOR DETAILS, CONTACT: Larry Test, City Engineer

City of Escalon; Kjeldsen-Sinnock and Associates

mailing address: P.O. Box 844; Stockton, CA 95201

PHONE: (209) 946-0268

This summary information was LAST VERIFIED on: 08/10/1988

STUDY: City of Escalon Ground Water Aquifer Modeling Study

The objective of this study is to develop a model of the water bearing strata and to estimate the extent of contaminated ground water areas in the city of Escalon.

CONTINUED FROM: City of EscalonSTUDY: City of Escalon Ground Water Aquifer Modeling Study

GEOGRAPHIC COVERAGE: City of Escalon

THIS ACTIVITY STARTED: 01/01/1983 and CONTINUING as of: 08/10/1988 (dates may be approximate).

KEYWORDS: estimate impacts of ground water pollution, hydrogeology, pertinent reports available, project planning, studies extent of ground water pollution, water bearing strata, contamination, aquifers, model.

FOR DETAILS, CONTACT: Larry Test, City Engineer

City of Escalon; Kjeldsen-Sinnock and Associates

mailing address: P.O. Box 844; Stockton, CA 95201

PHONE: (209) 946-0268

This summary information was LAST VERIFIED on: 08/10/1988

City of Escondido; Fire Department

Street address of Organization: 310 North Quince St; Escondido, CA 92025

PROGRAM: City of Escondido Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the county their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and Fire Station Headquarters, and is available to the public.

The city assumes the responsibility of preparing an emergency response plan and administering this program within its jurisdiction by enacting an ordinance. If the city assumes this responsibility, its response must be coordinated with the county's response program.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Escondido

THIS ACTIVITY STARTED: 01/01/1983 and CONTINUING as of: 03/02/1990 (dates may be approximate).

KEYWORDS: administrative support, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Mary DeLong, Department Aide

PHONE: (619) 741-4701

This summary information was LAST VERIFIED on: 03/02/1990

PROGRAM: City of Escondido Underground Storage Tanks Regulation

The design, construction, closure and abandonment of storage tanks are regulated by a permit program. Permits for underground tanks are renewed, modified or terminated based on an inspection of the tank, drainage system, and monitoring system. The permit is valid for 5 years and cannot be renewed unless the underground tank has been inspected within the prior 3 years. More frequent testing is usually required since any monitoring system must be capable of determining the containment ability of the underground storage tank and detecting any active or future unauthorized releases.

References: California Code of Regulations, Title 23, Chapter 3, Subchapter 16; 1988 Uniform Fire Code, Articles 79 & 80.

GEOGRAPHIC COVERAGE: City of Escondido

THIS ACTIVITY STARTED: 01/01/1969 and CONTINUING as of: 03/02/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Mary DeLong, Department Aide

PHONE: (619) 741-4701

This summary information was LAST VERIFIED on: 03/02/1990

City of Exeter; Public Works Department

Mailing address of Organization: P.O. Box 237; Exeter, CA 93221

PROGRAM: City of Exeter Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

CONTINUED FROM: City of Exeter; Public Works Department
PROGRAM: City of Exeter Large Water Supply Systems Monitoring

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Exeter

THIS ACTIVITY STARTED: 01/01/1979 and CONTINUING as of: 11/30/1989 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Howard Ricks, Director

PHONE: (209) 592-3318

This summary information was LAST VERIFIED on: 11/30/1989

City of Farmersville; Public Works Department

Street address of Organization: 147 East Front St; Farmersville, CA 93223

PROGRAM: City of Farmersville Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Farmersville

THIS ACTIVITY STARTED: 01/01/1962 and CONTINUING as of: 12/01/1989 (dates may be approximate).

KEYWORDS: enforcement, ground water monitoring, planning, site inspection, site investigation, technical support, water supply wells, organics, minerals, wells, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Ruben Deleon, Director

PHONE: (209) 747-3330

This summary information was LAST VERIFIED on: 12/01/1989

City of Firebaugh; Public Works Department

Street address of Organization: 1575 11th Street; Firebaugh, CA 93622

PROGRAM: City of Firebaugh Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Firebaugh

THIS ACTIVITY STARTED: 01/01/1982 and CONTINUING as of: 11/01/1989 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Joe Barrios, Foreman

PHONE: (209) 659-2412

This summary information was LAST VERIFIED on: 11/01/1989

PROGRAM: City of Firebaugh Sanitary Landfill Ground Water Monitoring

Monitoring wells located in the vicinity of the sanitary landfill are regularly sampled for any indication of ground water pollution. Samples are collected from the first encountered ground water. Monthly, the wells are sampled and tested for pH and specific conductance. Quarterly, the wells are sampled and tested for chemical oxygen demand (COD), chloride, iron, nitrate, total dissolved solids (TDS), and total hardness; depth to ground water is also noted.

References: The California Code of Regulations, Title 23, Chapter 3, Subchapter 15, and the California Water Code, Section 13273 (Solid Waste Assessment Test/SWAT/Calderon).

GEOGRAPHIC COVERAGE: City of Firebaugh

THIS ACTIVITY STARTED: 01/01/1979 and CONTINUING as of: 11/01/1989 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, enforcement, ground water monitoring, pertinent reports available, planning, site inspection, technical support, landfill, well, ph, conductance, COD, chloride, iron, nitrate, TDS, total hardness, Subchapter 15, SWAT.

FOR DETAILS, CONTACT: Joe Barrios, Foreman

PHONE: (209) 659-2412

This summary information was LAST VERIFIED on: 11/01/1989

City of Folsom; Fire Department

Street address of Organization: 48 Natoma; Folsom, CA 95630

PROGRAM: City of Folsom Hazardous Materials Spills

The city prepares an area-wide emergency response plan to hazardous materials spills as outlined by the Office of Emergency Services and coordinates it with the plan of the county of Sacramento. The emergency response plan outlines the responsibilities of the agencies involved. Events are coordinated with the appropriate incident commander, resources necessary to handle the spill are gathered, the spill is isolated and the media are informed. Appropriate people are called in to assess the extent of needed cleanup procedures.

All individual businesses that handle hazardous materials must submit to the city their own plan for responding to an accidental release of their materials, as well as an annual inventory of their hazardous materials if the amount is less than 500 gallons, otherwise it is submitted to the county directly. This information is on file at the governing agency and is available to the public.

Reference: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Folsom

THIS ACTIVITY STARTED: 09/01/1983 and CONTINUING as of: 07/29/1988 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, planning, site inspection, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Bill Merdock, Assistant Fire Chief

PHONE: (916) 355-7250

This summary information was LAST VERIFIED on: 07/29/1988

PROGRAM: City of Folsom Regulation of On-Site Sewage Disposal Systems

The installation and maintenance of individual sewage disposal systems consisting of septic tanks and leach fields are regulated by a permit program. This program conducts percolation tests to determine the suitability of the leach field for treating wastes, checks for setback before issuing building permits, and ensures that there is good separation from water supply wells.

GEOGRAPHIC COVERAGE: City of Folsom

THIS ACTIVITY STARTED: 01/01/1969 and CONTINUING as of: 07/29/1988 (dates may be approximate).

KEYWORDS: enforcement, permitting, planning, site inspection, technical support, septic tanks, sewage, leach fields, percolation tests, wells.

FOR DETAILS, CONTACT: Marvin May, Chief Building Inspector

PHONE: (916) 355-7212

This summary information was LAST VERIFIED on: 07/29/1988

PROGRAM: City of Folsom Underground Tanks Program

Regulations apply to the design, construction, closure and abandonment of underground storage tanks. These regulations also apply to the monitoring and drainage systems installed at the tank locations.

Regulations are enforced through a permit program designed by the county. Permits for underground tanks are renewed, modified or terminated based on an inspection of the tank and monitoring system. The permit is valid for 5 years, whereas the underground tank and the monitoring records are inspected every year by the city fire department.

Reference: The California Code of Regulations, Title 23, Chapter 3, Subchapter 16.

GEOGRAPHIC COVERAGE: City of Folsom

THIS ACTIVITY STARTED: 07/01/1983 and CONTINUING as of: 07/29/1988 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, permitting, planning, site inspection, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Bill Merdock, Assistant Fire Chief

PHONE: (916) 355-7250

This summary information was LAST VERIFIED on: 07/29/1988

City of Fountain Valley; Fire Department

Street address of Organization: 10200 Slater Ave; Fountain Valley, CA 92708

PROGRAM: City of Fountain Valley Hazardous Materials Disclosure Program

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

CONTINUED FROM: City of Fountain Valley; Fire Department
PROGRAM: City of Fountain Valley Hazardous Materials Disclosure Program

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Fountain Valley

THIS ACTIVITY STARTED: 01/01/1987 and CONTINUING as of: 07/06/1990 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, pertinent reports available, planning, site inspection, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Richard Jorgensen, Fire Chief

PHONE: (714) 965-4436

This summary information was LAST VERIFIED on: 07/06/1990

City of Fowler; Public Works Department

Mailing address of Organization: P.O. Box 99; Fowler, CA 93625

PROGRAM: City of Fowler Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Fowler

THIS ACTIVITY STARTED: 01/01/1981 and CONTINUING as of: 09/14/1989 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, ground water monitoring, pertinent reports available, planning, site inspection, site investigation, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Jeff Viau, Director

PHONE: (209) 834-3110

This summary information was LAST VERIFIED on: 09/14/1989

City of Fremont; Hazardous Materials Department

Street address of Organization: 39572 Stevenson Place Suite 125; Fremont, CA 94539-3075

PROGRAM: City of Fremont Underground Storage Tanks Regulation

The design, construction, closure and abandonment of storage tanks are regulated by a permit program. Permits for underground tanks are renewed, modified or terminated based on an inspection of the tank, drainage system, and monitoring system. The permit is valid for 5 years and cannot be renewed unless the underground tank has been inspected within the prior year. Single-walled tanks are tested on an annual basis as required in guidelines set forth by the city. More frequent testing is required when needed to insure the containment ability of the underground storage tank or to detect any active or future unauthorized releases.

References: California Code of Regulations, Title 23, Chapter 3, Subchapter 16; 1988 Uniform Fire Code, Articles 79 & 80.

GEOGRAPHIC COVERAGE: City of Fremont

THIS ACTIVITY STARTED: 01/01/1983 and CONTINUING as of: 07/04/1989 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Elizabeth Stowe, Administrator, Hazardous Materials Program

PHONE: (415) 791-4296

This summary information was LAST VERIFIED on: 07/04/1989

PROGRAM: Hazardous Materials Management Program

Through the application of local, state, and federal regulations, the City of Fremont protects the community, environment, and ground water quality from risks of exposure to hazardous materials.

GEOGRAPHIC COVERAGE: City of Fremont

THIS ACTIVITY STARTED: 01/01/1983 and CONTINUING as of: 07/04/1989 (dates may be approximate).

KEYWORDS: allocates funds, enforcement, ground water monitoring, permitting, pertinent reports available, planning, hazardous materials, local, state, and federal regulations.

FOR DETAILS, CONTACT: Elizabeth Stowe, Administrator, Hazardous Materials Program

PHONE: (415) 791-4296

This summary information was LAST VERIFIED on: 07/04/1989

STUDY: City of Fremont Pollutant Source Identification

Specific sites are investigated to determine the risk and extent of possible contamination due to existing and planned activities. Appropriate mitigation measures are formulated. A connection is established between the sites and the ground water aquifers below. Geohydrologic studies are subsumed as part of these studies.

GEOGRAPHIC COVERAGE: City of Fremont

THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 07/04/1989 (dates may be approximate).

KEYWORDS: ground water cleanup, estimate impacts of ground water pollution, hydrogeology, pertinent reports available, project planning, studies extent of ground water pollution, studies ground water pollutant transport, studies sources of pollution, pollutant transport, source identification, waste discharge..

FOR DETAILS, CONTACT: Elizabeth Stowe, Administrator, Hazardous Materials Program

PHONE: (415) 791-4296

This summary information was LAST VERIFIED on: 07/04/1989

City of Fresno; Public Works Department

Street address of Organization: 2326 Fresno Street; Fresno, CA 93721

PROGRAM: City of Fresno Sanitary Landfill Ground Water Monitoring

Monitoring wells located in the vicinity of the sanitary landfill are regularly sampled for any indication of ground water pollution. Samples are collected from the first encountered ground water. Monthly, the wells are sampled and tested for pH and specific conductance. Quarterly, the wells are sampled and tested for chemical oxygen demand (COD), chloride, iron, nitrate, total dissolved solids (TDS), and total hardness; depth to ground water is also noted. Semi-annually, the wells are sampled for volatile organic compounds. A one-year study characterized contaminants in the vadose zone and ground water.

References: The California Code of Regulations, Title 23, Chapter 3, Subchapter 15, and the California Water Code, Section 13273 (Solid Waste Assessment Test/SWAT/Calderon).

GEOGRAPHIC COVERAGE: Fresno Metropolitan Area

THIS ACTIVITY STARTED: 01/01/1986 and CONTINUING as of: 01/23/1990 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, ground water monitoring, pertinent reports available, planning, site inspection, site investigation, technical support, landfill, well, ph, conductance, COD, chloride, iron, nitrate, TDS, total hardness, Subchapter 15, SWAT, volatile organics, vadose zone.

FOR DETAILS, CONTACT: John Mitchell, Utility Engineer

PHONE: (209) 498-1401

This summary information was LAST VERIFIED on: 01/23/1990

City of Fresno; Water Division

Street address of Organization: 1910 E. University Street; Fresno, CA 93703-2988

PROGRAM: City of Fresno Ground Water Recharge Program

Water appropriated by the City of Fresno from its surface water entitlement is delivered (by the Fresno Irrigation District) to a 210 acre recharge facility and numerous Fresno Metropolitan Flood Control basins in the vicinity of Fresno. Approximately 50,000 acre feet of water is recharged each year. The City of Fresno is evaluating the possibility of enhancing this recharge program in the future.

GEOGRAPHIC COVERAGE: Fresno Metropolitan Area

THIS ACTIVITY STARTED: 01/01/1972 and CONTINUING as of: 11/30/1989 (dates may be approximate).

KEYWORDS: ground water modeling, pertinent reports available, ground water recharge, water delivery, surface water.

FOR DETAILS, CONTACT: Martin McIntyre, Supervisor

PHONE: (209) 488-1412

This summary information was LAST VERIFIED on: 11/30/1989

PROGRAM: City of Fresno Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: Fresno Metropolitan Area

THIS ACTIVITY STARTED: 01/01/1959 and CONTINUING as of: 11/30/1989 (dates may be approximate).

KEYWORDS: ground water cleanup, ground water modeling, ground water monitoring, permitting, pertinent reports available, planning, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Martin McIntyre, Supervisor

PHONE: (209) 488-1412

This summary information was LAST VERIFIED on: 11/30/1989

STUDY: City of Fresno Ground Water Resource Evaluation

Numerous studies are undertaken to assist in beneficial management of ground water resources and basins in the Fresno Metropolitan Area. These include evaluation, project development, and planning.

GEOGRAPHIC COVERAGE: Fresno Metropolitan Area

THIS ACTIVITY STARTED: 01/01/1969 and **CONTINUING** as of: 11/30/1989 (dates may be approximate).

KEYWORDS: ground water cleanup, estimate impacts of ground water pollution, ground water usage, hydrogeology, pertinent reports available, project planning, studies extent of ground water pollution, studies ground water pollutant transport, studies sources of pollution, ground water studies, evaluation, development, planning, basin.

FOR DETAILS, CONTACT: Martin McIntyre, Supervisor

PHONE: (209) 488-1412

This summary information was **LAST VERIFIED** on: 11/30/1989

City of Fullerton; Fire Department

Street address of Organization: 312 E. Commonwealth Ave; Fullerton, CA 92632

PROGRAM: City of Fullerton Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Fullerton

THIS ACTIVITY STARTED: 10/01/1986 and **CONTINUING** as of: 06/20/1990 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, permitting, planning, site inspection, hazardous material disclosure, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Julie Kunze, Hazardous Materials Specialist

PHONE: (714) 738-6500

This summary information was **LAST VERIFIED** on: 06/20/1990

PROGRAM: City of Fullerton Underground Storage Tanks Regulation

The design, construction, closure and abandonment of storage tanks are regulated by a permit program. Permits for underground tanks are renewed, modified, or terminated based on an inspection of the tank, drainage system, and monitoring system. The City of Fullerton Fire Department issues permits for tanks on a yearly basis through the Uniform Fire Code, Article 79.

References: California Code of Regulations, Title 23, Chapter 3, Subchapter 16; 1988 Uniform Fire Code, Articles 79 & 80.

GEOGRAPHIC COVERAGE: City of Fullerton

THIS ACTIVITY STARTED: 01/01/1920 and **CONTINUING** as of: 06/20/1990 (dates may be approximate).

KEYWORDS: administrative support, enforcement, permitting, planning, site inspection, underground tank permitting program.

FOR DETAILS, CONTACT: Julie Kunze, Hazardous Materials Specialist

PHONE: (714) 738-6500

This summary information was **LAST VERIFIED** on: 06/20/1990

City of Fullerton; Water Engineering Division

Street address of Organization: 303 West Commonwealth Ave; Fullerton, CA 92632

PROGRAM: City of Fullerton Large Water Supply Systems Monitoring

The City of Fullerton regularly samples the community water system at random distribution points for total coliform concentrations. As part of a larger effort, the Orange County Water District samples individual community supply wells every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for as required by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Fullerton

CONTINUED FROM: City of Fullerton; Water Engineering Division
 PROGRAM: City of Fullerton Large Water Supply Systems Monitoring

THIS ACTIVITY STARTED: 01/01/1910 and CONTINUING as of: 05/25/1990 (dates may be approximate).
 KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform,
 Title 22, AB1803.

FOR DETAILS, CONTACT: Larry Sears, Water System Engineer
 PHONE: (714) 738-6886

This summary information was LAST VERIFIED on: 05/25/1990

City of Galt

Mailing address of Organization: P.O. Box 97; Galt, CA 95632

PROGRAM: City of Galt Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Galt

THIS ACTIVITY STARTED: 01/01/1970 and CONTINUING as of: 07/27/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, permitting, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Robert Kawasaki, City Engineer

PHONE: (209) 745-2961

This summary information was LAST VERIFIED on: 07/27/1988

STUDY: Investigation of the Galt Area for the Development of Ground Water Supplies

Because the City of Galt has had trouble meeting the secondary requirements of Title 22 for acceptable levels of iron and magnesium, they began this study in order to find a series of alternate aquifers that would meet those standards.

GEOGRAPHIC COVERAGE: City of Galt

THIS ACTIVITY STARTED: 11/01/1987 and ENDED: 01/14/1988 (dates may be approximate).

KEYWORDS: hydrogeology, pertinent reports available, project planning, Title 22, iron, magnesium, aquifers, secondary requirements.

FOR DETAILS, CONTACT: Robert Kawasaki, City Engineer

PHONE: (209) 745-2961

This summary information was LAST VERIFIED on: 07/27/1988

City of Gilroy; Fire Department

Street address of Organization: 7070 Chestnut St; Gilroy, CA 95020

PROGRAM: City of Gilroy Hazardous Materials Storage Ordinance

A city ordinance is executed to insure hazardous materials are properly contained by all industries and businesses within the city's jurisdiction in order to prevent degradation of ground water below.

GEOGRAPHIC COVERAGE: City of Gilroy

THIS ACTIVITY STARTED: 07/20/1983 and CONTINUING as of: 02/05/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, permitting, planning, site inspection, technical support, storage ordinance, hazardous material, degradation, ground water resources.

FOR DETAILS, CONTACT: Dave Olds, Hazardous Materials Specialist

PHONE: (408) 842-5656

This summary information was LAST VERIFIED on: 02/05/1990

PROGRAM: City of Gilroy Hazardous Waste Management Planning

The management of all hazardous wastes produced by industries, businesses, homes, and other sources within a city's jurisdiction is guided by a hazardous waste management plan. The plan includes an analysis of the volume and types of hazardous wastes generated, a survey of the potential for recycling and reducing the volume of wastes generated, and an inventory of existing hazardous waste facilities. Existing facilities that can be expanded are identified, as are sites that would be suitable for the placement of future facilities.

References: AB2948 (1986, Tanner)

GEOGRAPHIC COVERAGE: City of Gilroy

CONTINUED FROM: City of Gilroy; Fire DepartmentPROGRAM: City of Gilroy Hazardous Waste Management Planning

THIS ACTIVITY STARTED: 10/01/1983 and CONTINUING as of: 02/05/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, enforcement, ground water monitoring, permitting, planning, site inspection, technical support, hazardous waste management, land use decisions, waste disposal.

FOR DETAILS, CONTACT: Dave Olds, Hazardous Materials Specialist

PHONE: (408) 842-5656

This summary information was LAST VERIFIED on: 02/05/1990

PROGRAM: City of Gilroy Underground Storage Tanks Regulation

The design, construction, closure and abandonment of storage tanks are regulated by a permit program. Permits for underground tanks are renewed, modified or terminated based on an inspection of the tank, drainage system, and monitoring system. The permit is valid for only one year. More frequent testing is usually required since any monitoring system must be capable of determining the containment ability of the underground storage tank and detecting any active or future unauthorized releases.

References: California Code of Regulations, Title 23, Chapter 3, Subchapter 16; 1988 Uniform Fire Code, Articles 79 & 80.

GEOGRAPHIC COVERAGE: City of Gilroy

THIS ACTIVITY STARTED: 06/26/1983 and CONTINUING as of: 02/05/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, ground water monitoring, permitting, planning, site inspection, site investigation, technical support, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Dave Olds, Hazardous Materials Specialist

PHONE: (408) 842-5656

This summary information was LAST VERIFIED on: 02/05/1990

City of Gilroy; Public Works Department

Street address of Organization: 7351 Rosanna St; Gilroy, CA 95020

PROGRAM: City of Gilroy Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Gilroy

THIS ACTIVITY STARTED: 01/01/1932 and CONTINUING as of: 12/22/1989 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water modeling, pertinent reports available, planning, site inspection, site investigation, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Jim Lear, Associate Engineer

PHONE: (408) 842-9321

This summary information was LAST VERIFIED on: 12/22/1989

City of Glendale; Engineering Department

Street address of Organization: 119 North Glendale Ave, Room 600; Glendale, CA 91206

PROGRAM: City of Glendale Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Glendale

THIS ACTIVITY STARTED: 01/01/1960 and CONTINUING as of: 06/28/1990 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Richard Segawa, Principal Engineer

PHONE: (818) 956-3905

This summary information was LAST VERIFIED on: 06/28/1990

City of Glendale; Fire Department

Street address of Organization: 633 East Broadway; Glendale, CA 91206

PROGRAM: City of Glendale Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Glendale

THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 06/28/1990 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, pertinent reports available, planning, site inspection, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Chris Gray, Fire Battalion Chief

PHONE: (818) 956-4810

This summary information was LAST VERIFIED on: 06/28/1990

PROGRAM: City of Glendale Hazardous Waste Management Planning

The management of all hazardous wastes produced by industries, businesses, homes, and other sources within a city's jurisdiction is guided by a hazardous waste management plan. The plan includes an analysis of the volume and types of hazardous wastes generated, a survey of the potential for recycling and reducing the volume of wastes generated, and an inventory of existing hazardous waste facilities. Existing facilities that can be expanded are identified, as are sites that would be suitable for the placement of future facilities.

References: AB2948 (1986, Tanner)

GEOGRAPHIC COVERAGE: City of Glendale

THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 06/28/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, enforcement, permitting, pertinent reports available, planning, site investigation, technical support, hazardous waste management, land use decisions, waste disposal.

FOR DETAILS, CONTACT: Chris Gray, Fire Battalion Chief

PHONE: (818) 956-4810

This summary information was LAST VERIFIED on: 06/28/1990

PROGRAM: City of Glendale Underground Storage Tanks Regulation

The design, construction, closure and abandonment of storage tanks are regulated by a permit program. Permits for underground tanks are renewed, modified, or terminated based on an inspection of the tank, drainage system, and monitoring system. The permit is valid for 5 years and cannot be renewed unless the underground tank has been inspected within the prior 3 years. More frequent testing is usually required since any monitoring system must be capable of determining the containment ability of the underground storage tank and detecting any unplanned releases.

References: California Code of Regulations, Title 23, Chapter 3, Subchapter 16; 1988 Uniform Fire Code, Articles 79 & 80.

GEOGRAPHIC COVERAGE: City of Glendale

THIS ACTIVITY STARTED: 01/01/1990 and CONTINUING as of: 07/05/1990 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, permitting, pertinent reports available, site inspection, site investigation, technical support, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Vasken Demirjian, Supervisor, Hazardous Materials

PHONE: (818) 956-4030

This summary information was LAST VERIFIED on: 07/05/1990

City of Glendora; Public Works Department

Street address of Organization: 116 East Foothill Blvd; Glendora, CA 91740

PROGRAM: City of Glendora Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Glendora and Some Unincorporated Areas

THIS ACTIVITY STARTED: 01/01/1960 and CONTINUING as of: 05/09/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water monitoring, planning, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Vern Gillett, Water Superintendent

PHONE: (818) 914-8247

This summary information was LAST VERIFIED on: 05/09/1990

City of Gonzales; Public Works Department

Mailing address of Organization: P.O. Box 647; Gonzales, CA 93926

PROGRAM: City of Gonzales Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Gonzales

THIS ACTIVITY STARTED: 01/01/1950 and CONTINUING as of: 07/25/1989 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, enforcement, ground water monitoring, permitting, planning, site inspection, site investigation, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Carlos Lopez, Director

PHONE: (408) 675-2321

This summary information was LAST VERIFIED on: 07/25/1989

City of Greenfield; Public Works Department

Mailing address of Organization: P.O. Box 127; Greenfield, CA 93927

PROGRAM: City of Greenfield Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the county or city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

The city may assume the responsibility of preparing an emergency response plan and administering this program within its jurisdiction by enacting an ordinance. If the city assumes this responsibility, its response must be coordinated with the county's response program.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Greenfield

THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 08/03/1989 (dates may be approximate).

KEYWORDS: administrative support, ground water monitoring, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: John Alves, Director

PHONE: (408) 674-2635

This summary information was LAST VERIFIED on: 08/03/1989

PROGRAM: City of Greenfield Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Greenfield

THIS ACTIVITY STARTED: 01/01/1951 and CONTINUING as of: 08/03/1989 (dates may be approximate).

KEYWORDS: allocates funds, ground water cleanup, enforcement, ground water modeling, ground water monitoring, permitting, planning, site inspection, site investigation, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: John Alves, Director

PHONE: (408) 674-2635

This summary information was LAST VERIFIED on: 08/03/1989

PROGRAM: City of Greenfield Sewage Disposal Plant Monitoring Program

The city of Greenfield monitors the ground water beneath the site of its sewage disposal plant and percolation ponds. The plant consist of a primary sedimentation tank and a sludge digester. The effluent goes to oxidation/percolation ponds in Greenfield and Springfield.

GEOGRAPHIC COVERAGE: City of Greenfield

THIS ACTIVITY STARTED: 01/01/1951 and CONTINUING as of: 08/03/1989 (dates may be approximate).

KEYWORDS: ground water monitoring, sewage disposal plant, ground water monitoring, primary sedimentation tank, sludge digester.

FOR DETAILS, CONTACT: John Alves, Director

PHONE: (408) 674-2635

This summary information was LAST VERIFIED on: 08/03/1989

City of Grover City; Community Development

Street address of Organization: 154 S. 8th Street; Grover City, CA 93433

Mailing address of Organization: P.O. Box 365; Grover City, CA 93433

PROGRAM: City of Grover City Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the City Water Department Office and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Grover City

THIS ACTIVITY STARTED: 12/21/1959 and CONTINUING as of: 07/25/1988 (dates may be approximate).

KEYWORDS: administrative support, ground water monitoring, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Tom Sullivan, Community Development Director

PHONE: (805) 489-2356

This summary information was LAST VERIFIED on: 07/25/1988

PROGRAM: Storm Water Retainage Program

This program requires that all new developments retain and percolate storm water on-site. The main purpose of the program is to replenish the groundwater basin.

GEOGRAPHIC COVERAGE: City of Grover City

THIS ACTIVITY STARTED: 01/01/1980 and CONTINUING as of: 07/25/1988 (dates may be approximate).

KEYWORDS: administrative support, planning, site inspection, technical support, retainage of storm water, percolation, on-site, replenishment, ground water basin.

FOR DETAILS, CONTACT: Tom Sullivan, Community Development Director

PHONE: (805) 489-2356

This summary information was LAST VERIFIED on: 07/25/1988

PROJECT: Storm Drain Installation

The purpose of the storm drain project is to capture approximately 400 acre-feet (in a normal rainfall year) of storm water that is currently going to the ocean. The water will be directed to percolation basins.

CONTINUED FROM: City of Grover City; Community Development
PROJECT: Storm Drain Installation

GEOGRAPHIC COVERAGE: Northeast Quadron of Grover City
THIS ACTIVITY STARTED: 01/01/1988 and **CONTINUING** as of: 07/25/1988 (dates may be approximate).
KEYWORDS: planning, capture, direct, storm water, percolation, basin.
FOR DETAILS, CONTACT: Tom Sullivan, Community Development Director
PHONE: (805) 489-2356 This summary information was **LAST VERIFIED** on: 07/25/1988

PROJECT: Water Treatment Plant

The City of Grover City is building a water treatment plant. The chemical treatment used will be ion exchange. The purpose of the water treatment plant will be to remove nitrates from shallow wells.

GEOGRAPHIC COVERAGE: City of Grover City
THIS ACTIVITY STARTED: 01/01/1986 and **CONTINUING** as of: 07/25/1988 (dates may be approximate).
KEYWORDS: ground water monitoring, pertinent reports available, water treatment plant, ion exchange, nitrates, shallow wells, chemical, treatment.
FOR DETAILS, CONTACT: Tom Sullivan, Community Development Director
PHONE: (805) 489-2356 This summary information was **LAST VERIFIED** on: 07/25/1988

City of Guadalupe; Public Works Department

Street address of Organization: 918 Obispo St.; Guadalupe, CA 93434

PROGRAM: City of Guadalupe -- Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Guadalupe
THIS ACTIVITY STARTED: 01/01/1975 and **CONTINUING** as of: 08/28/1989 (dates may be approximate).
KEYWORDS: administrative support, allocates funds, enforcement, ground water monitoring, pertinent reports available, planning, site inspection, site investigation, technical support, water supply, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.
FOR DETAILS, CONTACT: Dwayne Chisam, Public Works Director
PHONE: (805) 343-1340 This summary information was **LAST VERIFIED** on: 08/28/1989

PROGRAM: City of Guadalupe Water Well Permitting

The siting, drilling, and construction of new water wells, the deepening and reoperation of existing wells, and the abandonment and destruction of old wells are regulated through a permit program.

GEOGRAPHIC COVERAGE: City of Guadalupe
THIS ACTIVITY STARTED: 01/01/1989 and **CONTINUING** as of: 08/28/1989 (dates may be approximate).
KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, permitting, pertinent reports available, water wells, construction, abandonment, destruction.
FOR DETAILS, CONTACT: Dwayne Chisam, Public Works Director
PHONE: (805) 343-1340 This summary information was **LAST VERIFIED** on: 08/28/1989

City of Gustine; Public Works Department

Mailing address of Organization: P.O. Drawer A; Gustine, CA 95322

PROGRAM: City of Gustine Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Gustine
THIS ACTIVITY STARTED: 01/01/1968 and **CONTINUING** as of: 07/31/1989 (dates may be approximate).

CONTINUED FROM: **City of Gustine; Public Works Department**
 PROGRAM: City of Gustine Large Water Supply Systems Monitoring

KEYWORDS: allocates funds, ground water cleanup, enforcement, ground water monitoring, permitting, planning, site inspection, site investigation, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Gary Davenport, Utility Foreman
 PHONE: (209) 854-6471

This summary information was LAST VERIFIED on: 07/31/1989

STUDY: City of Gustine Ground Water Quality Studies

Available ground water supplies are being evaluated by a consultant to determine their capacity to serve as a source of drinking water for the city of Gustine. A reliable well site in the vicinity of Gustine should result from the study. Water levels and the quality of the ground water in nearby aquifers will be determined as part of the study.

GEOGRAPHIC COVERAGE: City of Gustine

THIS ACTIVITY STARTED: 07/01/1989 and ENDED: 07/31/1989 (dates may be approximate).

KEYWORDS: estimate impacts of ground water pollution, ground water management, ground water usage, hydrogeology, pertinent reports available, project planning, studies extent of ground water pollution, aquifer, water quantity and quality, future water supply, well location, ground water levels.

FOR DETAILS, CONTACT: Gary Davenport, Utility Foreman
 PHONE: (209) 854-6471

This summary information was LAST VERIFIED on: 07/31/1989

City of Half Moon Bay

Street address of Organization: City Hall; Half Moon Bay, CA 94019

Mailing address of Organization: P.O. Box 67; Half Moon Bay, CA 94019

PROGRAM: City of Half Moon Bay Water Well Permitting

Regulations govern the siting, drilling and construction of new water wells, the deepening and reperforming of existing wells, and the abandonment and destruction of old wells. Regulations are enforced through a permit program. The city has enacted its own well permitting ordinance.

References: California Water Code Sections 231, 13800, DWR Bulletin 74-81 (Water Well Standards: State of California). Model Well Ordinance Act (AB3127, Arias, 1986); California Water Code Sections 13701, 13712, 13800, 13801. City Ordinance 1686.

GEOGRAPHIC COVERAGE: City of Half Moon Bay

THIS ACTIVITY STARTED: 09/17/1986 and CONTINUING as of: 08/15/1988 (dates may be approximate).

KEYWORDS: administrative support, enforcement, ground water monitoring, permitting, planning, site inspection, site investigation, technical support, water wells, construction, abandonment, destruction.

FOR DETAILS, CONTACT: Allan Harry, Assistant to the City Manager
 PHONE: (415) 726-5566

This summary information was LAST VERIFIED on: 08/15/1988

STUDY: Groundwater Assessment for the City of Half Moon Bay

Each year, GeoConsultants Inc. reviews available hydrogeologic and groundwater quality information, in addition to measuring groundwater levels, in order to prepare the annual report titled "Groundwater Assessment for the City of Half Moon Bay". This report is used by the City of Half Moon Bay to manage the groundwater resource of the city. The report includes a hydrogeologic analysis with maps, a summary of groundwater quality data provided by the county and lithologic data.

GEOGRAPHIC COVERAGE: City of Half Moon Bay

THIS ACTIVITY STARTED: 06/01/1986 and ENDED: 06/01/1987 (dates may be approximate).

KEYWORDS: ground water management, ground water usage, hydrogeology, pertinent reports available, groundwater assessment, management, water levels, maps, quality, lithologic data.

FOR DETAILS, CONTACT: John Hofer, Engineering Geologist
 GeoConsultants Inc.; (consultants to the City of Half Moon Bay, San Mateo County)
 1450 Koll Circle, Suite 114; San Jose, CA 95112
 PHONE: (408) 286-4251

This summary information was LAST VERIFIED on: 08/15/1988

City of Hanford; Utility Division

Street address of Organization: 900 South 10th; Hanford, CA 93230

PROGRAM: City of Hanford Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

CONTINUED FROM: City of Hanford; Utility Division
 PROGRAM: City of Hanford Large Water Supply Systems Monitoring

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Hanford

THIS ACTIVITY STARTED: 10/11/1893 and CONTINUING as of: 11/30/1989 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Clee Haley, Utility Superintendent

PHONE: (209) 582-2511

This summary information was LAST VERIFIED on: 11/30/1989

PROGRAM: City of Hanford Water Well Permitting

The siting, drilling, and construction of new water wells, the deepening and reoperation of existing wells, and the abandonment and destruction of old wells are regulated through a permit program. All cities will be required to adopt a well permitting ordinance in 1990, either the State of California's model ordinance or their own.

References: California Water Code Sections 231, 13800, DWR Bulletin 74-81 (Water Well Standards: State of California); Model Well Ordinance Act (AB3127, Arias, 1986); California Water Code Sections 13701, 13712, 13800, 13801.

GEOGRAPHIC COVERAGE: City of Hanford

THIS ACTIVITY STARTED: 12/11/1950 and CONTINUING as of: 11/30/1989 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, water wells, construction, abandonment, destruction.

FOR DETAILS, CONTACT: Clee Haley, Utility Superintendent

PHONE: (209) 582-2511

This summary information was LAST VERIFIED on: 11/30/1989

City of Hayward; Fire Department

Street address of Organization: 22300 Foothill Boulevard, Suite 606; Hayward, CA 94541

PROGRAM: City of Hayward Hazardous Materials Storage and Underground Tanks Program

The City requires permits for the storage of all hazardous materials within its jurisdiction, including both above and below ground storage. Permits are issued by the Fire Department and are valid for 1 year. The Department's goal is to inspect the approximately 550 regulated facilities every year.

All businesses that handle hazardous materials submit to the Department: a plan for responding to an accidental release of these materials, an annual inventory of their hazardous materials, details on the method of separation of materials and containment methods, and a plan for monitoring to detect leaks of materials from the primary to the secondary containment system or to soil and groundwater. The Department must approve the emergency response, containment and monitoring plan components prior to issuance of a storage permit.

Additional regulations apply to the design, construction, closure and abandonment of underground storage tanks. These regulations also apply to the monitoring and drainage systems installed at the tank locations.

References: The California Code of Regulations, Title 23, Chapter 3, Subchapter 16; City of Hayward Ordinance 83-031 C.S.; City of Hayward Ordinance 84-029 C.S.

GEOGRAPHIC COVERAGE: City of Hayward

THIS ACTIVITY STARTED: 01/01/1984 and CONTINUING as of: 10/11/1988 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, permitting, planning, site inspection, underground tank, hazardous materials storage, Subchapter 16, containment, separation of materials, monitoring system.

FOR DETAILS, CONTACT: Steve Faelz, Hazardous Materials Coordinator

PHONE: (415) 784-8693

This summary information was LAST VERIFIED on: 10/11/1988

PROGRAM: City of Hayward Hazardous Materials Spills

The city prepares an area-wide emergency response plan to hazardous materials spills as outlined by the Office of Emergency Services. The emergency response plan outlines the responsibilities of the agencies involved. Events are coordinated with the appropriate incident commander, resources necessary to handle the spill are gathered, the spill is isolated and the media are informed. Appropriate people are called in to assess the extent of needed cleanup procedures.

Data on the time and location of spills, the compounds involved, the parties responsible, number of people injured, extent of the contamination, nature of the hazard, and the personnel and equipment that were dispatched to the site are all sent to the California Hazardous Materials Incident Response System (CHMIRS), not stored in the Department's records.

CONTINUED FROM: City of Hayward; Fire Department
PROGRAM: City of Hayward Hazardous Materials Spills

The approximately 550 individual businesses in the City which handle hazardous materials are regulated under the City's Hazardous Materials Storage Ordinance.

The city has assumed the responsibility of preparing an emergency response plan within its jurisdiction and coordinating its activities with the county.

Reference: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Hayward

THIS ACTIVITY STARTED: 01/01/1986 and CONTINUING as of: 10/11/1988 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, ground water monitoring, pertinent reports available, planning, site inspection, hazardous material spills.

FOR DETAILS, CONTACT: Steve Faelz, Hazardous Materials Coordinator

PHONE: (415) 784-8693

This summary information was LAST VERIFIED on: 10/11/1988

City of Hemet; Public Utility Department; Water Division

Street address of Organization: 450 East Latham Avenue; Hemet, CA 92343

PROGRAM: City of Hemet--Large Water Supply Systems Monitoring Program

The community water system consisting of approximately 8400 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 6 months for minerals, organic, inorganic, radioactivity, AB 1803 (Volatile), and other constituents that the State Health Department requires us to test as part of Title 22. Other constituents are tested for as requested by the Department of Health Services.

The results of the water analyses are stored at the County Department of Environmental Health, the Department of Health Services regional office, and our files.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: 3/5 of the City of Hemet

THIS ACTIVITY STARTED: 01/01/1955 and CONTINUING as of: 10/17/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Ed Starner, Maintenance Management Technician

PHONE: (714) 658-9411

This summary information was LAST VERIFIED on: 10/17/1988

PROJECT: Nitrate Reduction in the City of Hemet's Water Supply

Nitrate levels up to 60 mg/L were detected at two well sites for the City of Hemet. Two actions were taken to reduce these high concentrations at one well site. A 200' stinger was installed to the bottom of existing reinforced bowls. The level of Nitrate subsequently decreased to 40-45 mg/L. This water was blended with system water supplies which contain Nitrate levels from 8 to 11 mg/L. These actions are expected to maintain acceptable Nitrate levels until at least 1990 or 1991.

GEOGRAPHIC COVERAGE: 3/5 of the City of Hemet

PART OF A PROGRAM titled: City of Hemet--Large Water Supply Systems Monitoring Program

THIS ACTIVITY STARTED: 07/01/1987 and CONTINUING as of: 10/17/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, nitrate.

FOR DETAILS, CONTACT: Ed Starner, Maintenance Management Technician

PHONE: (714) 658-9411

This summary information was LAST VERIFIED on: 10/17/1988

City of Hollister; Public Works Department

Mailing address of Organization: P.O. Box 10; Hollister, CA 95032

PROGRAM: City of Hollister Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Hollister

THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 02/13/1990 (dates may be approximate).

PART B

Inventory of Individual Ground Water Activities, Organized by Public Agency

CONTINUED FROM: City of Hollister; Public Works Department
PROGRAM: City of Hollister Large Water Supply Systems Monitoring

KEYWORDS: enforcement, ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: David Perales, Water Superintendent
PHONE: (408) 637-8244

This summary information was **LAST VERIFIED** on: 02/13/1990

City of Holtville; Fire Department

Street address of Organization: 120 W. 5th Street; Holtville, CA 92250

PROGRAM: City of Holtville Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Holtville

THIS ACTIVITY STARTED: 01/01/1985 and **CONTINUING** as of: 03/22/1990 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, pertinent reports available, planning, site inspection, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Charles Cariveau, Fire Chief
PHONE: (619) 356-2913

This summary information was **LAST VERIFIED** on: 03/22/1990

City of Hughson; Public Works Department

Mailing address of Organization: P.O. Box 9; Hughson, CA 95326

PROGRAM: City of Hughson Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Hughson

THIS ACTIVITY STARTED: 01/01/1973 and **CONTINUING** as of: 09/29/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Ron Bremer, Director
PHONE: (209) 883-4054

This summary information was **LAST VERIFIED** on: 09/29/1988

PROGRAM: City of Hughson Water Well Permitting

The siting, drilling and construction of new water wells, the deepening and re-perforating of existing wells, and the abandonment and destruction of old wells are regulated through a permit program. After 1990, all counties will be required to adopt a well permitting ordinance, either a State model ordinance or their own.

References: California Water Code Sections 231, 13800, DWR Bulletin 74-81 (Water Well Standards: State of California); Model Well Ordinance Act (AB3127, Arias, 1986); California Water Code Sections 13701, 13712, 13800, 13801.

GEOGRAPHIC COVERAGE: City of Hughson

THIS ACTIVITY STARTED: 01/01/1974 and **CONTINUING** as of: 09/29/1988 (dates may be approximate).

KEYWORDS: enforcement, permitting, water wells, construction, abandonment, destruction.

FOR DETAILS, CONTACT: Ron Bremer, Director
PHONE: (209) 883-4054

This summary information was **LAST VERIFIED** on: 09/29/1988

City of Huntington Beach; Water Department

Mailing address of Organization: P. O. Box 190; Huntington Beach, CA 92648

STUDY: City of Huntington Beach Cooperative Study With Orange County Water District on Colored Water

Specialized water treatment methods are applied to a few secondary water supply wells to determine the most cost-effective method to remove colored water. This water is non-toxic but yellowish in color. The coloration is caused by humic and fomic acids.

GEOGRAPHIC COVERAGE: City of Huntington Beach

THIS ACTIVITY STARTED: 12/01/1988 and CONTINUING as of: 07/20/1990 (dates may be approximate).

KEYWORDS: ground water cleanup, estimate impacts of ground water pollution, ground water management, ground water usage, project planning, studies extent of ground water pollution, studies sources of pollution, well, colored water, humic acid, fubic acid, cost.

FOR DETAILS, CONTACT: Ed Barckley, Water Quality Coordinator

PHONE: (714) 536-5921

This summary information was LAST VERIFIED on: 07/20/1990

City of Huntington; Fire Department

Street address of Organization: 2000 Main Street; Huntington, CA 92648

PROGRAM: City of Huntington Beach Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Huntington Beach

THIS ACTIVITY STARTED: 07/01/1980 and CONTINUING as of: 05/23/1990 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, pertinent reports available, planning, site inspection, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Raymond Picard, Fire Chief

PHONE: (714) 536-5401

This summary information was LAST VERIFIED on: 05/23/1990

City of Indio; Public Works Department

Mailing address of Organization: P.O. Drawer 1788; Indio, CA 92202

PROGRAM: City of Indio--Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

Beginning in 1986, the pumping and static water levels have been measured monthly.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Indio

THIS ACTIVITY STARTED: 01/01/1952 and CONTINUING as of: 09/06/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, pumping water level, static water level, Title 22, AB1803.

FOR DETAILS, CONTACT: Eldon Lee, Director of Public Works

PHONE: (619) 342-6570

This summary information was LAST VERIFIED on: 09/06/1988

City of Inglewood; Fire Department

Street address of Organization: One Manchester Blvd; Inglewood, CA 90301

PROGRAM: City of Inglewood Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Inglewood

THIS ACTIVITY STARTED: 01/01/1987 and CONTINUING as of: 07/23/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, ground water modeling, pertinent reports available, planning, site inspection, site investigation, technical support, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Greg Cole, Hazardous Materials Specialist

PHONE: (213) 412-5350

This summary information was LAST VERIFIED on: 07/23/1990

City of Kerman; Public Works Department

Street address of Organization: 850 Mabera Ave; Kerman, CA 93630

PROGRAM: City of Kerman Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and quarterly for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Kerman

THIS ACTIVITY STARTED: 01/01/1970 and CONTINUING as of: 09/08/1989 (dates may be approximate).

KEYWORDS: enforcement, permitting, pertinent reports available, planning, water supply wells, organics, minerals, wells, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Ken Moore, Director

PHONE: (209) 846-9384

This summary information was LAST VERIFIED on: 09/08/1989

STUDY: City of Kerman Uranium Investigation

The purpose of this study is to determine the suitability of underlying ground water for municipal use. Two test wells will be drilled to about 600 feet to locate usable aquifers. The quality of water from the aquifers will then be tested for high levels of radioactivity due to uranium, measuring concentrations of volatile organics and some Title 22 listed constituents in the process.

GEOGRAPHIC COVERAGE: City of Kerman

THIS ACTIVITY STARTED: 06/01/1989 and CONTINUING as of: 09/08/1989 (dates may be approximate).

KEYWORDS: hydrogeology, project planning, studies sources of pollution, test wells, aquifer, uranium.

FOR DETAILS, CONTACT: Ken Moore, Director

PHONE: (209) 846-9384

This summary information was LAST VERIFIED on: 09/08/1989

City of King

Street address of Organization: 212 Vanderhurst St; King City, CA 93930

PROGRAM: King City Soil Analysis of Waste Water Disposal Fields

The installation and maintenance of two waste disposal systems (consisting of oxidation ponds and spray fields) are regulated by a permit program. Various parameters, setbacks, ground water levels, lot size, and the proximity of water supply wells are checked before issuing building permits. Percolation tests are conducted to determine the suitability of the spray disposal field to accept disposal loads.

GEOGRAPHIC COVERAGE: City of King

CONTINUED FROM: City of KingPROGRAM: King City Soil Analysis of Waste Water Disposal Fields

THIS ACTIVITY STARTED: 01/01/1970 and CONTINUING as of: 07/31/1989 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, pump station, sewage, spray disposal fields, percolation tests, oxidation ponds.

FOR DETAILS, CONTACT: Blaine Michaelis, City Manager

PHONE: (408) 385-3281

This summary information was LAST VERIFIED on: 07/31/1989

City of La Habra; Public Services Department

Mailing address of Organization: P.O. Box 337; La Habra, CA 90631

PROGRAM: City of La Habra Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of La Habra

THIS ACTIVITY STARTED: 01/01/1925 and CONTINUING as of: 04/27/1990 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Elray Hanna, Manager, Water Operations

PHONE: (213) 697-3696

This summary information was LAST VERIFIED on: 04/27/1990

STUDY: City of La Habra Ground Water Basin Study

Geologic and well data characterizing the La Habra Ground Water Basin were collected to evaluate the feasibility of using the basin to augment the city's water supplies. Identifying the direction of water flowing into the basin, recharge areas, and the cost-effectiveness of drilling wells in the basin were part of the study.

GEOGRAPHIC COVERAGE: City of La Habra

THIS ACTIVITY STARTED: 01/10/1977 and ENDED: 01/07/1979 (dates may be approximate).

KEYWORDS: ground water management, ground water usage, pertinent reports available, project planning, ground water basin, feasibility of drilling wells, ground water transport.

FOR DETAILS, CONTACT: Robert Buonodono, City Engineer

PHONE: (213) 905-9720

This summary information was LAST VERIFIED on: 04/27/1990

City of La Verne; Public Works Department

Street address of Organization: 3660 D. Street; La Verne, CA 91750

PROGRAM: City of La Verne Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of La Verne

THIS ACTIVITY STARTED: 01/01/1958 and CONTINUING as of: 07/23/1990 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, pertinent reports available, planning, site inspection, site investigation, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Brian Bowcock, Director, Public Works Department

PHONE: (714) 596-8741

This summary information was LAST VERIFIED on: 07/23/1990

City of Lindsay; Fire Department

Street address of Organization: 185 Gale Hill; Lindsay, CA 93247

PROGRAM: City of Lindsay Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

The city assumes the responsibility of preparing an emergency response plan and administering this program within its jurisdiction by enacting an ordinance. Its response is coordinated with the county's response program.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Lindsay

THIS ACTIVITY STARTED: 01/01/1984 and CONTINUING as of: 11/30/1989 (dates may be approximate).

KEYWORDS: enforcement, planning, site inspection, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Sergeant Donald Shephard, Operation Commander

PHONE: (209) 562-2511

This summary information was LAST VERIFIED on: 11/30/1989

City of Lindsay; Public Works Department

Mailing address of Organization: P.O. Box 369; Lindsay, CA 93247

PROGRAM: City of Lindsay Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every year for minerals, organic compounds, and radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Lindsay

THIS ACTIVITY STARTED: 01/01/1969 and CONTINUING as of: 01/01/1990 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, ground water monitoring, pertinent reports available, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: John Dutton, Director

PHONE: (209) 562-5945

This summary information was LAST VERIFIED on: 01/01/1990

City of Livingston; Public Works Department

Mailing address of Organization: P.O. Box 308; Livingston, CA 95334

PROGRAM: City of Livingston Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Livingston

THIS ACTIVITY STARTED: 01/01/1969 and CONTINUING as of: 07/27/1989 (dates may be approximate).

KEYWORDS: enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Gary Petty, Director

PHONE: (209) 394-8041

This summary information was LAST VERIFIED on: 07/27/1989

PROGRAM: City of Livingston Regulation of On-Site Sewage Disposal Systems

The installation and maintenance of individual waste disposal systems (consisting of septic tanks and leach fields) are regulated by a permit program. Various parameters, setbacks, ground water levels, lot size, and the proximity of water supply wells are checked before issuing building permits. Percolation tests are conducted to determine the suitability of the leach field to accept waste loads.

GEOGRAPHIC COVERAGE: City of Livingston

THIS ACTIVITY STARTED: 01/01/1969 and **CONTINUING** as of: 07/27/1989 (dates may be approximate).

KEYWORDS: enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, septic tanks, sewage, leach fields, percolation tests, wells.

FOR DETAILS, CONTACT: Gary Petty, Director

PHONE: (209) 394-8041

This summary information was **LAST VERIFIED** on: 07/27/1989

City of Lodi; Public Works Department

Street address of Organization: 1331 South Ham Lane; Lodi, CA 95242

PROGRAM: City of Lodi Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled for total coliform concentration. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Lodi

THIS ACTIVITY STARTED: 06/01/1979 and **CONTINUING** as of: 08/19/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Fran Forkas, Water, Waste-Water Superintendent

PHONE: (209) 333-6706

This summary information was **LAST VERIFIED** on: 08/19/1988

STUDY: The Impact of Dibromochloropropane (DBCP) Contamination on the City of Lodi's Ground Water

The purpose of this study was to see what financial impact the proposed establishment of maximum contamination levels would have on the city of Lodi.

GEOGRAPHIC COVERAGE: City of Lodi

THIS ACTIVITY STARTED: 11/01/1987 and **ENDED:** 05/01/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, estimate impacts of ground water pollution, hydrogeology, pertinent reports available, project planning, studies extent of ground water pollution, studies ground water pollutant transport, studies sources of pollution, dibromochloropropane, DBCP, maximum contamination level, financial impact, treatment, cleanup.

FOR DETAILS, CONTACT: Fran Forkas, Water, Waste-Water Superintendent

PHONE: (209) 333-6706

This summary information was **LAST VERIFIED** on: 08/19/1988

City of Loma Linda; Utilities Services

Street address of Organization: 11134 Anderson Street; Loma Linda, CA 92354

PROGRAM: City of Loma Linda--Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Loma Linda and Its Environs

THIS ACTIVITY STARTED: 01/01/1976 and **CONTINUING** as of: 08/26/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Rick Wellington, Utilities Services Superintendent

PHONE: (714) 796-0131

This summary information was **LAST VERIFIED** on: 08/26/1988

CONTINUED FROM: City of Loma Linda; Utilities Services

PROJECT: Mt. View I Well Roto-Stripping of Dibromochloropropane (DBCP)

Roto-stripping at Mt. View I Well is an experimental project to remove or lower levels of Dibromochloropropane (DBCP). As a wellhead treatment process roto-stripping will be contrasted with granular activated carbon (GAC) for efficiency and cost. The Mt. View I Well is part of the domestic water supply for the city of Loma Linda.

GEOGRAPHIC COVERAGE: City of Loma Linda

THIS ACTIVITY STARTED: 07/01/1988 and CONTINUING as of: 08/26/1988 (dates may be approximate).

KEYWORDS: ground water cleanup, pertinent reports available, dibromochloropropane, DBCP, roto-stripping.

FOR DETAILS, CONTACT: Rick Wellington, Utilities Services Superintendent

PHONE: (714) 796-0131

This summary information was LAST VERIFIED on: 08/26/1988

STUDY: City of Loma Linda--Geothermal Grant Study

The purpose of this study is to locate a hot water source to be used for heating and as a co-generated peaking system. The California Energy Commission helps support this study under the Geothermal Grant Loan Program. Drilling of test holes will be done to find the source of hot water. A plan will be developed to supply a number of building complexes with the hot water. The water will be used in the Veterans Administration Hospital, Loma Linda Medical Center, Loma Linda Community Hospital, the new Civic Center, schools, commercial parks and apartment complexes.

GEOGRAPHIC COVERAGE: City of Loma Linda and Its Environs

THIS ACTIVITY STARTED: 01/01/1988 and CONTINUING as of: 08/26/1988 (dates may be approximate).

KEYWORDS: ground water usage, pertinent reports available, geothermal, co-generated peaking system.

FOR DETAILS, CONTACT: C. Glen Wilson, Community Services Director

PHONE: (714) 796-0131

This summary information was LAST VERIFIED on: 08/26/1988

City of Lompoc; Public Works Department

Mailing address of Organization: P.O. Box 8001; Lompoc, CA 93438

PROGRAM: City of Lompoc Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every year for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Lompoc

THIS ACTIVITY STARTED: 01/01/1964 and CONTINUING as of: 08/09/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Gary Keefe, Water Resources Manager

PHONE: (805) 736-1261

This summary information was LAST VERIFIED on: 08/09/1988

City of Long Beach; Department of Health and Human Services; Hazardous Waste Division

Street address of Organization: 2655 Pine Ave; Long Beach, CA 90806

PROGRAM: City of Long Beach Hazardous Materials Management Program

A city ordinance is executed to insure hazardous materials are properly contained by all industries and businesses within the city's jurisdiction in order to prevent degradation of ground water below.

All individual businesses and industries that handle hazardous materials must submit to the city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials.

The Long Beach Fire Department is the enforcing agency for this program.

References: AB2185 (1985, Waters)

GEOGRAPHIC COVERAGE: City of Long Beach

THIS ACTIVITY STARTED: 01/01/1984 and CONTINUING as of: 04/05/1990 (dates may be approximate).

KEYWORDS: enforcement, permitting, site inspection, site investigation, technical support, hazardous material, degradation, ground water resources, inventory.

FOR DETAILS, CONTACT: Dick Smith, Hazardous Waste Operations Officer

PHONE: (213) 427-7421

This summary information was LAST VERIFIED on: 04/05/1990

City of Long Beach; Fire Prevention Inspection Bureau

Street address of Organization: 400 West Broadway; Long Beach, CA 90801

PROGRAM: City of Long Beach Underground Storage Tanks Regulation

The design, construction, closure and abandonment of storage tanks are regulated by a permit program. Permits for underground tanks are renewed, modified, or terminated based on an inspection of the tank, drainage system, and monitoring system. The permit is valid for 5 years and cannot be renewed unless the underground tank has been inspected within the prior 3 years. More frequent testing is usually required since any monitoring system must be capable of determining the containment ability of the underground storage tank and detecting any unplanned releases.

References: California Code of Regulations, Title 23, Chapter 3, Subchapter 16; 1988 Uniform Fire Code, Articles 79 & 80.

GEOGRAPHIC COVERAGE: City of Long Beach and Signal Hill

THIS ACTIVITY STARTED: 08/28/1986 and CONTINUING as of: 03/30/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Wayne Swenson, Inspector

PHONE: (213) 435-2458

This summary information was LAST VERIFIED on: 03/30/1990

City of Los Banos; Public Works Department

Street address of Organization: 411 Madison Ave; Los Banos, CA 93635

PROGRAM: City of Los Banos Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled quarterly for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: West Side of Merced County

THIS ACTIVITY STARTED: 01/01/1951 and CONTINUING as of: 07/31/1989 (dates may be approximate).

KEYWORDS: enforcement, ground water monitoring, permitting, planning, site inspection, site investigation, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Matt Barcellos, Director

PHONE: (209) 826-0280

This summary information was LAST VERIFIED on: 07/31/1989

PROGRAM: City of Los Banos Water Well Permitting

The siting, drilling, and construction of new water wells, the deepening and reoperation of existing wells, and the abandonment and destruction of old wells are regulated through a permit program. All counties will be required to adopt a well permitting ordinance in 1990, either the State of California's model ordinance or their own.

References: California Water Code Sections 231, 13800, DWR Bulletin 74-81 (Water Well Standards: State of California); Model Well Ordinance Act (AB3127, Arias, 1986); California Water Code Sections 13701, 13712, 13800, 13801.

GEOGRAPHIC COVERAGE: West Side of Merced County

THIS ACTIVITY STARTED: 01/01/1987 and CONTINUING as of: 07/31/1989 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, permitting, planning, site inspection, site investigation, technical support, water wells, construction, abandonment, destruction.

FOR DETAILS, CONTACT: Matt Barcellos, Director

PHONE: (209) 826-0280

This summary information was LAST VERIFIED on: 07/31/1989

City of Loyalton; Department of Water and Sewers

Mailing address of Organization: P.O. Box 128; Loyalton, CA 96118

PROGRAM: City of Loyalton--Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

CONTINUED FROM: City of Loyalton; Department of Water and Sewers
PROGRAM: City of Loyalton--Large Water Supply Systems Monitoring Program

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Loyalton

THIS ACTIVITY CONTINUING as of: 04/18/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Milton Gottardi, Mayor

PHONE: (916) 993-4622

This summary information was LAST VERIFIED on: 04/18/1988

City of Madera; Public Works Department

Street address of Organization: 1030 Southgateway; Madera, CA 93637

PROGRAM: City of Madera--Large Water Supply Systems Monitoring Program

The community water system consisting of more than 10,000 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Madera

THIS ACTIVITY STARTED: 01/01/1966 and CONTINUING as of: 09/09/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Harold Haring, Water Supervisor

PHONE: (209) 674-1727

This summary information was LAST VERIFIED on: 09/09/1988

City of Manhattan Beach; Public Services Department

Street address of Organization: 3621 Bell Ave; Manhattan Beach, CA 90266

PROGRAM: City of Manhattan Beach Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Manhattan Beach

THIS ACTIVITY STARTED: 01/08/1973 and CONTINUING as of: 08/06/1990 (dates may be approximate).

KEYWORDS: administrative support, ground water monitoring, pertinent reports available, planning, site inspection, site investigation, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Duane Beaver, Assistant Director/Utilities Superintendent

PHONE: (213) 545-5621

This summary information was LAST VERIFIED on: 08/06/1990

City of Manteca; Public Works Department

Street address of Organization: 1001 West Center Street; Manteca, CA 95336

PROGRAM: City of Manteca Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

CONTINUED FROM: City of Manteca; Public Works DepartmentPROGRAM: City of Manteca Large Water Supply Systems Monitoring Program

GEOGRAPHIC COVERAGE: City of Manteca

THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 10/04/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Michael Brinton, Director
San Joaquin County; Public Works Department
1810 East Hazelton; Stockton, CA 95202

mailing address: P.O. Box 1810; Stockton, CA 95201

PHONE: (209) 239-8460

This summary information was LAST VERIFIED on: 10/04/1988

City of Mendota

Street address of Organization: 1943 Northgate Way Blvd, Ste 101; Fresno, CA 93727

PROGRAM: City of Mendota Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at the well source for minerals and organic compounds. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Mendota

THIS ACTIVITY STARTED: 01/01/1967 and CONTINUING as of: 12/12/1989 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, water supply wells, organics, minerals, wells, Title 22, AB1803.

FOR DETAILS, CONTACT: Dean Uota, Consulting City Engineer

PHONE: (209) 251-2100

This summary information was LAST VERIFIED on: 12/12/1989

City of Merced; Public Works Department

Street address of Organization: 678 West 18th Street; Merced, CA 95340

PROGRAM: City of Merced Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Merced

THIS ACTIVITY STARTED: 01/01/1977 and CONTINUING as of: 09/21/1989 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Nick Penney, Director

PHONE: (209) 385-6848

This summary information was LAST VERIFIED on: 09/21/1989

PROGRAM: City of Merced Regulation of On-Site Sewage Disposal Systems

The installation and maintenance of individual waste disposal systems (consisting of septic tanks and leach fields) are regulated by a permit program. Various parameters, setbacks, ground water levels, lot size, and the proximity of water supply wells are checked before issuing building permits. Percolation tests are conducted to determine the suitability of the leach field to accept waste loads.

GEOGRAPHIC COVERAGE: City of Merced

THIS ACTIVITY STARTED: 01/01/1977 and CONTINUING as of: 09/21/1989 (dates may be approximate).

KEYWORDS: enforcement, permitting, planning, site inspection, technical support, septic tanks, sewage, leach fields, percolation tests, wells.

FOR DETAILS, CONTACT: Nick Penney, Director

PHONE: (209) 385-6848

This summary information was LAST VERIFIED on: 09/21/1989

STUDY: City of Merced Cooperative Ground Water Study with United States Geological Survey

The objective of the study is to determine the quantities and flows of ground water in the vicinity of the city of Merced, besides ascertaining water quality in the region.

GEOGRAPHIC COVERAGE: City of Merced

THIS ACTIVITY STARTED: 01/01/1977 and CONTINUING as of: 09/21/1989 (dates may be approximate).

KEYWORDS: ground water management, ground water usage, pertinent reports available, project planning, studies ground water pollutant transport, studies sources of pollution, water quantity, water flows, aquifer, water quality, wells.

FOR DETAILS, CONTACT: Nick Penney, Director

PHONE: (209) 385-6848

This summary information was LAST VERIFIED on: 09/21/1989

STUDY: City of Merced Ground Water Quality Study

The objective of the study is to comprehensively characterize the sources, uses, and quality of ground water in the City of Merced area. Sources of contamination will also be identified along with possible mitigation and emergency response measures in case of a major contamination of the city's water supply. The study will be updated annually.

GEOGRAPHIC COVERAGE: City of Merced

THIS ACTIVITY STARTED: 01/01/1988 and CONTINUING as of: 09/21/1989 (dates may be approximate).

KEYWORDS: ground water cleanup, estimate impacts of ground water pollution, ground water management, ground water usage, hydrogeology, pertinent reports available, project planning, studies extent of ground water pollution, studies ground water pollutant transport, studies sources of pollution, water source, water quality, water use, contaminants, mitigation measures.

FOR DETAILS, CONTACT: Nick Penney, Director

PHONE: (209) 385-6848

This summary information was LAST VERIFIED on: 09/21/1989

City of Millbrae; Fire Department; Hazardous Materials Response Team

Street address of Organization: 511 Magnolia Ave.; Millbrae, CA 94030

PROGRAM: City of Millbrae Hazardous Materials Spills Emergency Response

The purpose of the program is to isolate, contain and remove hazardous materials before they enter the soil. In coordination with the County of San Mateo, Section of Environmental Health Hazardous Materials, the following activities are conducted:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

Additional information, made available to the public, is on file and can be obtained from the County of San Mateo, Section of Environmental Health Hazardous Materials (tel: (415) 363-4000).

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Millbrae except Bayshore Freeway 101 & El Camino Real

THIS ACTIVITY STARTED: 01/01/1984 and CONTINUING as of: 03/23/1989 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, pertinent reports available, planning, site inspection, contain, remove, isolate, hazardous material spills, emergency response plan, county environmental health hazardous materials, AB2185.

FOR DETAILS, CONTACT: Brian Kelly, Fire Chief

PHONE: (415) 877-3977

This summary information was LAST VERIFIED on: 03/23/1989

City of Milpitas; Community Development Department; Engineering Division

Street address of Organization: 455 East Calavaras Blvd; Milpitas, CA 95035

PROGRAM: City of Milpitas Large Water Supply Systems Monitoring

The community water system (consisting of more than 12,000 service connections) is regularly sampled at rotating distribution points for total coliform concentration, odor, turbidity, and color. Individual community supply wells (emergency stand-by) are sampled every year for volatile organic compounds, every three years for minerals, physical characteristics, and organic chemicals, and every 4 years for radioactivity.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Milpitas

THIS ACTIVITY STARTED: 01/01/1970 and CONTINUING as of: 01/23/1990 (dates may be approximate).

CONTINUED FROM: **City of Milpitas; Community Development Department; Engineering Division**
 PROGRAM: City of Milpitas Large Water Supply Systems Monitoring

KEYWORDS: administrative support, ground water monitoring, planning, site inspection, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Gary Bentson, Utility Engineer

PHONE: (408) 942-2368

This summary information was LAST VERIFIED on: 01/23/1990

City of Milpitas; Fire Department

Street address of Organization: 777 South Main St; Milpitas, CA 95035

PROGRAM: City of Milpitas Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the county or city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

The city assumes the responsibility of preparing an emergency response plan and administering this program within its jurisdiction by enacting an ordinance. If the city assumes this responsibility, its response must be coordinated with the county's response program.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Milpitas

THIS ACTIVITY STARTED: 05/17/1983 and CONTINUING as of: 01/11/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Robert Webster, Fire Marshal

PHONE: (408) 942-2383

This summary information was LAST VERIFIED on: 01/11/1990

PROGRAM: City of Milpitas Underground Storage Tanks Regulation

The design, construction, closure and abandonment of storage tanks are regulated by a permit program. Permits for underground tanks are renewed, modified or terminated based on an inspection of the tank, drainage system, and monitoring system. The permit is valid for up to 5 years.

References: California Code of Regulations, Title 23, Chapter 3, Subchapter 16; 1988 Uniform Fire Code, Articles 79 & 80.

GEOGRAPHIC COVERAGE: City of Milpitas

THIS ACTIVITY STARTED: 05/17/1983 and CONTINUING as of: 01/11/1990 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Robert Webster, Fire Marshal

PHONE: (408) 942-2383

This summary information was LAST VERIFIED on: 01/11/1990

City of Modesto; Utility Services Department; Water Division

Street address of Organization: 601 Eleventh Street; Modesto, CA 95354

Mailing address of Organization: P.O. Box 642; Modesto, CA 95353

PROGRAM: City of Modesto Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at the City of Modesto, the County Department of Environmental Health, and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Modesto

PART B

Inventory of Individual Ground Water Activities, Organized by Public Agency

CONTINUED FROM: City of Modesto; Utility Services Department; Water Division
PROGRAM: City of Modesto Large Water Supply Systems Monitoring Program

THIS ACTIVITY STARTED: 01/01/1983 and **CONTINUING** as of: 09/22/1988 (dates may be approximate).
KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Judith Ray, Administrative Analyst

PHONE: (209) 577-5469

This summary information was **LAST VERIFIED** on: 09/22/1988

PROGRAM: City of Modesto Water Well Permitting

The siting, drilling and construction of new water wells, the deepening and re-perforating of existing wells, and the abandonment and destruction of old wells are regulated through a permit program. After 1990, all counties will be required to adopt a well permitting ordinance, either a State model ordinance or their own.

References: California Water Code Sections 231, 13800, DWR Bulletin 74-81 (Water Well Standards: State of California); Model Well Ordinance Act (AB3127, Arias, 1986); California Water Code Sections 13701, 13712, 13800, 13801.

GEOGRAPHIC COVERAGE: City of Modesto

THIS ACTIVITY STARTED: 01/01/1960 and **CONTINUING** as of: 09/22/1988 (dates may be approximate).

KEYWORDS: enforcement, permitting, water wells, construction, abandonment, destruction.

FOR DETAILS, CONTACT: Judith Ray, Administrative Analyst

PHONE: (209) 577-5469

This summary information was **LAST VERIFIED** on: 09/22/1988

City of Montclair; Public Works Department

Mailing address of Organization: P.O. Box 2308; Montclair, CA 91763

PROGRAM: City of Montclair--Underground Tanks Program

Regulations apply to the design, construction, closure and abandonment of underground storage tanks. These regulations also apply to the monitoring and drainage systems installed at the tank locations.

Regulations are enforced through a permit program. Permits for underground tanks are renewed, modified or terminated based on an inspection of the tank and monitoring system. The permit is valid for 5 years, whereas the underground tank and the monitoring records are inspected every year.

Reference: The California Code of Regulations, Title 23, Chapter 3, Subchapter 16.

GEOGRAPHIC COVERAGE: City of Montclair

THIS ACTIVITY STARTED: 01/01/1986 and **CONTINUING** as of: 08/22/1988 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, permitting, planning, site inspection, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Donald Gdula, Public Works Assistant

PHONE: (714) 626-8571

This summary information was **LAST VERIFIED** on: 08/22/1988

City of Montebello; Water Division

Street address of Organization: 311 S. Greenwood Ave; Montebello, CA 90640

PROGRAM: City of Montebello Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Montebello

THIS ACTIVITY STARTED: 01/01/1987 and **CONTINUING** as of: 07/27/1990 (dates may be approximate).

KEYWORDS: ground water monitoring, pertinent reports available, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Luis Salvatierra, Water Utilities Supervisor

PHONE: (213) 887-4614

This summary information was **LAST VERIFIED** on: 07/27/1990

City of Monterey; Fire Department

Street address of Organization: City Hall; Monterey, CA 93940

PROGRAM: City of Monterey Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the county or city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

The city may assume the responsibility of preparing an emergency response plan and administering this program within its jurisdiction by enacting an ordinance. If the city assumes this responsibility, its response must be coordinated with the county's response program.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Monterey

THIS ACTIVITY STARTED: 01/01/1984 and CONTINUING as of: 08/02/1989 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, permitting, site inspection, site investigation, technical support, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Rick Rodewald, Fire Marshall

PHONE: (408) 646-3900

This summary information was LAST VERIFIED on: 08/02/1989

PROGRAM: City of Monterey Ordinance 2155CS Underground Storage Tanks Regulation

The design, construction, closure and abandonment of storage tanks are regulated by a permit program. Permits for underground tanks are renewed, modified or terminated based on an inspection of the tank, drainage system, and monitoring system. The permit is valid for 5 years and cannot be renewed unless the underground tank has been inspected within the prior 3 years. More frequent testing is usually required since any monitoring system must be capable of determining the containment ability of the underground storage tank and detecting any active or future unauthorized releases.

References: California Code of Regulations, Title 23, Chapter 3, Subchapter 16; 1988 Uniform Fire Code, Articles 79 & 80.

GEOGRAPHIC COVERAGE: City of Monterey

THIS ACTIVITY STARTED: 01/01/1984 and CONTINUING as of: 08/02/1989 (dates may be approximate).

KEYWORDS: ground water cleanup, enforcement, permitting, site inspection, site investigation, technical support, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Rick Rodewald, Fire Marshall

PHONE: (408) 646-3900

This summary information was LAST VERIFIED on: 08/02/1989

City of Morgan Hill; Fire Department

Street address of Organization: 18300 Old Monterey Rd; Morgan Hill, CA 95037

PROGRAM: City of Morgan Hill Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the county or city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

The city assume the responsibility of preparing an emergency response plan and administering this program within its jurisdiction by enacting an ordinance. If the city assumes this responsibility, its response must be coordinated with the county's response program.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Morgan Hill

THIS ACTIVITY STARTED: 10/01/1983 and CONTINUING as of: 01/17/1990 (dates may be approximate).

CONTINUED FROM: City of Morgan Hill; Fire Department

PROGRAM: City of Morgan Hill Hazardous Materials Spills Emergency Response

KEYWORDS: administrative support, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Sharon Kohlmannslehner, Emergency Services Coordinator

PHONE: (408) 779-7231

This summary information was LAST VERIFIED on: 01/17/1990

PROGRAM: City of Morgan Hill Hazardous Materials Management Planning

The management of all hazardous materials stored by industries and businesses operating within the city's jurisdiction is regulated by hazardous material management plan. The plan requires all individual businesses and industries that handle hazardous material submit to the city their plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials.

GEOGRAPHIC COVERAGE: City of Morgan Hill

THIS ACTIVITY STARTED: 10/01/1983 and CONTINUING as of: 01/17/1990 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, hazardous material, management plan, inventory.

FOR DETAILS, CONTACT: Sharon Kohlmannslehner, Emergency Services Coordinator

PHONE: (408) 779-7231

This summary information was LAST VERIFIED on: 01/17/1990

PROGRAM: City of Morgan Hill Underground Storage Tanks Regulation

The design, construction, closure and abandonment of storage tanks are regulated by a permit program. Permits for underground tanks are renewed, modified or terminated based on an inspection of the tank, drainage system, and monitoring system. The permit is valid for one year and cannot be renewed unless the underground tank has been inspected within the prior 3 years. More frequent testing is usually required since any monitoring system must be capable of determining the containment ability of the underground storage tank and detecting any active or future unauthorized releases.

References: California Code of Regulations, Title 23, Chapter 3, Subchapter 16; 1988 Uniform Fire Code, Articles 79 & 80.

GEOGRAPHIC COVERAGE: City of Morgan Hill

THIS ACTIVITY STARTED: 10/01/1983 and CONTINUING as of: 01/17/1990 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Sharon Kohlmannslehner, Emergency Services Coordinator

PHONE: (408) 779-7231

This summary information was LAST VERIFIED on: 01/17/1990

City of Morgan Hill; Public Works Department

Street address of Organization: 17555 Peak Ave; Morgan Hill, CA 95037

PROGRAM: Morgan Hill Large Water Supply Systems Monitoring

The community water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every month for nitrate, every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Morgan Hill

THIS ACTIVITY STARTED: 01/01/1960 and CONTINUING as of: 12/27/1989 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, enforcement, ground water modeling, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Steve Machida, Associate Engineer

PHONE: (408) 779-7251

This summary information was LAST VERIFIED on: 12/27/1989

City of Morro Bay; Public Works Department

Street address of Organization: 595 Harbor Street; Morro Bay, CA 93442

PROGRAM: City of Morro Bay Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 months for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Morro Bay

THIS ACTIVITY STARTED: 01/01/1964 and CONTINUING as of: 08/04/1988 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, enforcement, ground water monitoring, planning, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: G. H. Nichols, Director of Public Works

PHONE: (805) 772-1214

This summary information was LAST VERIFIED on: 08/04/1988

PROJECT: Domenghini Flat Wells

The City of Morro Bay has applied for water rights to develop ground water wells. The ground water in question is part of the riparian underflow. The wells will be used to supplement the municipal water supply for the city.

GEOGRAPHIC COVERAGE: Chorro Creek Basin

THIS ACTIVITY STARTED: 02/01/1988 and CONTINUING as of: 08/04/1988 (dates may be approximate).

KEYWORDS: allocates funds, planning, site investigation, wells, municipal, water, supply, water rights.

FOR DETAILS, CONTACT: G. H. Nichols, Director of Public Works

PHONE: (805) 772-1214

This summary information was LAST VERIFIED on: 08/04/1988

PROJECT: Toro Creek Wells

The City of Morro Bay has applied for water rights to develop ground water wells. The ground water in question is part of the riparian underflow. The wells will be used to supplement the municipal water supply for the city.

GEOGRAPHIC COVERAGE: Toro Creek Basin

THIS ACTIVITY STARTED: 09/01/1986 and CONTINUING as of: 08/04/1988 (dates may be approximate).

KEYWORDS: allocates funds, pertinent reports available, planning, site investigation, wells, municipal, supply, water rights.

FOR DETAILS, CONTACT: G. H. Nichols, Director of Public Works

PHONE: (805) 772-1214

This summary information was LAST VERIFIED on: 08/04/1988

City of Mountain View; Fire Department

Street address of Organization: Rd 1000 Villa St; Mountain View, CA 94041

PROGRAM: City of Mountain View Hazardous Materials Storage Ordinance

A city ordinance is executed to insure hazardous materials are properly contained by all industries and businesses within the city's jurisdiction in order to prevent degradation of ground water below.

GEOGRAPHIC COVERAGE: City of Mountain View

THIS ACTIVITY STARTED: 09/06/1983 and CONTINUING as of: 03/02/1990 (dates may be approximate).

KEYWORDS: administrative support, enforcement, ground water monitoring, permitting, site inspection, site investigation, technical support, storage ordinance, hazardous material, degradation, ground water resources.

FOR DETAILS, CONTACT: Kurt Danziger, Hazardous Materials Specialist

PHONE: (415) 966-6378

This summary information was LAST VERIFIED on: 03/02/1990

PROGRAM: City of Mountain View Underground Storage Tanks Regulation

The design, construction, closure and abandonment of storage tanks are regulated by a permit program. Permits for underground tanks are renewed, modified or terminated based on an inspection of the tank, drainage system, and monitoring system. The permit is valid for only one year. More frequent testing is usually required since any monitoring system must be capable of determining the containment ability of the underground storage tank and detecting any active or future unauthorized releases.

References: California Code of Regulations, Title 23, Chapter 3, Subchapter 16; 1988 Uniform Fire Code, Articles 79 & 80.

CONTINUED FROM: City of Mountain View; Fire DepartmentPROGRAM: City of Mountain View Underground Storage Tanks Regulation

GEOGRAPHIC COVERAGE: City of Mountain View

THIS ACTIVITY STARTED: 06/26/1984 and CONTINUING as of: 03/02/1990 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Kurt Danziger, Hazardous Materials Specialist

PHONE: (415) 966-6378

This summary information was LAST VERIFIED on: 03/02/1990

City of Needles; Public Works Department

Mailing address of Organization: P.O. Box 887; Needles, CA 92363

PROGRAM: City of Needles--Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Needles

THIS ACTIVITY STARTED: 01/01/1954 and CONTINUING as of: 09/15/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Harry Harvey, Director

PHONE: (619) 326-4834

This summary information was LAST VERIFIED on: 09/15/1988

PROGRAM: City of Needles--Regulation of On-Site Sewage Disposal Systems

The installation and maintenance of individual sewage disposal systems consisting of septic tanks and leach fields are regulated by a permit program. This program conducts percolation tests to determine the suitability of the leach field for treating wastes, checks for setback before issuing building permits, and ensures that there is good separation from water supply wells.

There is no separate collection of data, it is all filed under the building permits.

GEOGRAPHIC COVERAGE: City of Needles

THIS ACTIVITY STARTED: 01/01/1953 and CONTINUING as of: 09/15/1988 (dates may be approximate).

KEYWORDS: enforcement, permitting, planning, site inspection, technical support, septic tanks, sewage, leach fields, percolation tests, wells.

FOR DETAILS, CONTACT: Harry Harvey, Director

PHONE: (619) 326-4834

This summary information was LAST VERIFIED on: 09/15/1988

City of Newark; Fire Department; Hazardous Materials Bureau

Street address of Organization: 37101 Newark Boulevard; Newark, CA 94560

PROGRAM: City of Newark Hazardous Materials Spills

The city prepares an area-wide emergency response plan to hazardous materials spills as outlined by the Office of Emergency Services. The emergency response plan outlines the responsibilities of the agencies involved. Events are coordinated with the appropriate incident commander, resources necessary to handle the spill are gathered, the spill is isolated and the media are informed. Appropriate people are called in to assess the extent of needed cleanup procedures.

All individual businesses that handle hazardous materials must submit to the city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

The city has assumed the responsibility of preparing an emergency response plan within its jurisdiction by entering into a Memorandum of Understanding with the county. The city coordinates its activities with the county.

The city has designated the Fire Department's Hazardous Materials Bureau to implement this program. In addition to the above responsibilities, the Bureau also provides information to the public, performs public education functions and receives complaints related to hazardous materials within the city.

Reference: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Newark

THIS ACTIVITY STARTED: 09/01/1986 and CONTINUING as of: 08/04/1988 (dates may be approximate).

CONTINUED FROM: **City of Newark; Fire Department; Hazardous Materials Bureau**
 PROGRAM: City of Newark Hazardous Materials Spills

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, permitting, pertinent reports available, planning, site inspection, site investigation, technical support, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Jacquelyn Bretschneider, Hazardous Materials Coordinator

PHONE: (415) 790-7254

This summary information was LAST VERIFIED on: 08/04/1988

PROGRAM: City of Newark Underground Tanks Program

Regulations apply to the design, construction, closure and abandonment of underground storage tanks. These regulations also apply to the monitoring and drainage systems installed at the tank locations.

Regulations are enforced through a permit program. Permits for underground tanks are renewed, modified or terminated based on an inspection of the tank and monitoring system. The permit is valid for 5 years, whereas the underground tank and the monitoring records are inspected every year.

Reference: The California Code of Regulations, Title 23, Chapter 3, Subchapter 16.

GEOGRAPHIC COVERAGE: City of Newark

THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 08/04/1988 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, permitting, planning, site inspection, underground tank, hazardous material spills, Subchapter 16.

FOR DETAILS, CONTACT: Jacquelyn Bretschneider, Hazardous Materials Coordinator

PHONE: (415) 790-7254

This summary information was LAST VERIFIED on: 08/04/1988

City of Newman; Public Works Department

Street address of Organization: 1162 O Street; Newman, CA 95360

Mailing address of Organization: P.O. Box 787; Newman, CA 95360

PROGRAM: City of Newman Large Water Supply Systems Monitoring Program

The community water system consisting of more than 200 service connections is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at both the County Department of Environmental Health and at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Newman

THIS ACTIVITY STARTED: 04/11/1962 and CONTINUING as of: 09/29/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Ernie Garza, Director

PHONE: (209) 862-2625

This summary information was LAST VERIFIED on: 09/29/1988

City of Newport Beach; Fire Department

Mailing address of Organization: P. O. Box 1768; Newport Beach, CA 92659-1768

PROGRAM: City of Newport Beach Hazardous Materials Disclosure Program

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Newport Beach

THIS ACTIVITY STARTED: 01/04/1988 and CONTINUING as of: 06/04/1990 (dates may be approximate).

CONTINUED FROM: City of Newport Beach; Fire DepartmentPROGRAM: City of Newport Beach Hazardous Materials Disclosure Program

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, pertinent reports available, planning, site inspection, hazardous material spills, emergency response plan, disclosure inventory, AB2185.

FOR DETAILS, CONTACT: Sylvia Marson, Fire Safety Engineer

PHONE: (714) 644-3113

This summary information was LAST VERIFIED on: 06/04/1990

City of Newport Beach; Public Works Department

Street address of Organization: 3300 Newport Blvd; Newport Beach, CA 92663

STUDY: City of Newport Beach Ground Water Quality Studies

Site-specific studies on ground water quality and hydrogeology are conducted to evaluate the potential for augmenting City of Newport Beach water supplies with ground water, as are miscellaneous studies of the potential for ground water contamination. The studies ascertain constituents of ground water including color, volatile organic chemicals, general physical, dissolved solids, and minerals.

GEOGRAPHIC COVERAGE: City of Newport Beach

THIS ACTIVITY STARTED: 01/01/1950 and CONTINUING as of: 05/22/1990 (dates may be approximate).

KEYWORDS: ground water cleanup, ground water management, ground water usage, hydrogeology, pertinent reports available, project planning, studies ground water pollutant transport, studies sources of pollution, hydrogeology, ground water quality and quantity.

FOR DETAILS, CONTACT: Jeff Stanearth, Deputy Utilities Director

PHONE: (714) 644-3011

This summary information was LAST VERIFIED on: 05/22/1990

City of Norco

Street address of Organization: 3954 Old Hamner Road; Norco, CA 91760

PROGRAM: City of Norco Back-Flow Prevention Program

The city of Norco Back-Flow Prevention program is implemented to comply with Title 17 of the California state water regulations.

GEOGRAPHIC COVERAGE: City of Norco

THIS ACTIVITY STARTED: 01/01/1986 and CONTINUING as of: 04/20/1989 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, enforcement, back-flow prevention, title 17.

FOR DETAILS, CONTACT: Jim Ashcraft, Chief Engineer

PHONE: (714) 735-3900

This summary information was LAST VERIFIED on: 04/20/1989

PROGRAM: City of Norco Large Water Supply Systems Monitoring

The city of Norco water system (consisting of more than 200 service connections) is regularly sampled at random distribution points for total coliform concentration and chlorine residuals. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and every 4 years for radioactivity. Other constituents are tested for occasionally as requested by the Department of Health Services.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Norco

THIS ACTIVITY STARTED: 01/01/1986 and CONTINUING as of: 04/20/1989 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, enforcement, ground water monitoring, permitting, planning, site inspection, site investigation, technical support, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Jim Ashcraft, Chief Engineer

PHONE: (714) 735-3900

This summary information was LAST VERIFIED on: 04/20/1989

PROGRAM: City of Norco Regulation of On-Site Sewage Disposal Systems

The installation and maintenance of individual waste disposal systems (consisting of septic tanks and leach fields) are regulated by a permit program. Various parameters, setbacks, ground water levels, lot size, and the proximity of water supply wells are checked before issuing building permits. Percolation tests are conducted to determine the suitability of the leach field to accept waste loads.

GEOGRAPHIC COVERAGE: City of Norco

THIS ACTIVITY STARTED: 01/01/1986 and CONTINUING as of: 04/20/1989 (dates may be approximate).

KEYWORDS: enforcement, permitting, planning, site inspection, technical support, septic tanks, sewage, leach fields, percolation tests, wells.

FOR DETAILS, CONTACT: Jim Ashcraft, Chief Engineer

PHONE: (714) 735-3900

This summary information was LAST VERIFIED on: 04/20/1989

CONTINUED FROM: City of Norco

PROGRAM: Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the county or city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

The city may assume the responsibility of preparing an emergency response plan and administering this program within its jurisdiction by enacting an ordinance. If the city assumes this responsibility, its response must be coordinated with the county's response program.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Norco

THIS ACTIVITY STARTED: 01/01/1986 and CONTINUING as of: 04/20/1989 (dates may be approximate).

KEYWORDS: administrative support, ground water cleanup, enforcement, ground water monitoring, pertinent reports available, planning, site inspection, hazardous material spills, emergency response plan, inventory, AB2185.

FOR DETAILS, CONTACT: Jim Ashcraft, Chief Engineer

PHONE: (714) 735-3900

This summary information was LAST VERIFIED on: 04/20/1989

PROGRAM: Water Well Permitting

The city of Norco inspects water wells in its jurisdiction. All counties will be required to adopt a well permitting ordinance in 1990, either the State of California's model ordinance or their own.

References: California Water Code Sections 231, 13800, DWR Bulletin 74-81 (Water Well Standards: State of California); Model Well Ordinance Act (AB3127, Arias, 1986); California Water Code Sections 13701, 13712, 13800, 13801.

GEOGRAPHIC COVERAGE: City of Norco

THIS ACTIVITY STARTED: 01/01/1986 and CONTINUING as of: 04/20/1989 (dates may be approximate).

KEYWORDS: enforcement, pertinent reports available, site inspection, water wells, construction, abandonment, destruction.

FOR DETAILS, CONTACT: Jim Ashcraft, Chief Engineer

PHONE: (714) 735-3900

This summary information was LAST VERIFIED on: 04/20/1989

City of Oakdale; Public Works Department

Street address of Organization: 455 South Fifth Ave.; Oakdale, CA 95361

PROGRAM: City of Oakdale Large Water Supply Systems Monitoring Program

The community water system consisting of 4,070 service connections is regularly sampled at twenty-four locations on a rotating basis for total coliform concentration. Individual community supply wells are sampled every 3 years for minerals and organic compounds, and for radioactivity every 4 years. Other constituents are tested for occasionally as requested by the Department of Health Services.

The results of the water analyses are stored at the at the Department of Health Services regional office.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Oakdale

THIS ACTIVITY STARTED: 01/01/1965 and CONTINUING as of: 09/28/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply wells, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Vern White, Water Superintendent

PHONE: (209) 847-4245

This summary information was LAST VERIFIED on: 09/28/1988

PROGRAM: City of Oakdale Small Water Supply Systems Monitoring Program

Community water systems consisting of less than 200 service connections are regularly sampled at random distribution points for total coliform concentration. Individual community supply wells are sampled every 3 years for minerals and organic compounds. Other constituents are tested for occasionally as requested by the Department of Health Services.

CONTINUED FROM: City of Oakdale; Public Works Department
PROGRAM: City of Oakdale Small Water Supply Systems Monitoring Program

The results of the water analyses are stored at both the County Department of Environmental Health.

References: The California Code of Regulations, Title 22, Chapter 15, Section 64401, and the California Health and Safety Code, Division 5, Part 1, Chapter 7.

GEOGRAPHIC COVERAGE: City of Oakdale

THIS ACTIVITY STARTED: 01/01/1965 and CONTINUING as of: 09/28/1988 (dates may be approximate).

KEYWORDS: ground water monitoring, water supply, organics, minerals, wells, chlorine, total coliform, Title 22, AB1803.

FOR DETAILS, CONTACT: Vern White, Water Superintendent

PHONE: (209) 847-4245

This summary information was LAST VERIFIED on: 09/28/1988

City of Oakland; Fire Department

Street address of Organization: 1 City Hall Plaza; Oakland, CA 94612

PROGRAM: City of Oakland Hazardous Materials Spills Emergency Response

The responsibilities of public agencies to react to a spill of hazardous materials are delineated in an area-wide emergency response plan, prepared as outlined by the California Office of Emergency Services. The following activities are coordinated by the appropriate incident commander:

- Resources necessary to handle the spill are gathered
- The spill is isolated
- The media are informed
- An assessment is made of the extent of any needed cleanup procedures

All individual businesses that handle hazardous materials must submit to the county or city their own plan for responding to an accidental release of these materials as well as an annual inventory of their hazardous materials. This information is on file at the governing agency and is available to the public.

The city may assume the responsibility of preparing an emergency response plan and administering this program within its jurisdiction by enacting an ordinance. If the city assumes this responsibility, its response must be coordinated with the county's response program.

References: AB2185 (1985, Waters); Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.

GEOGRAPHIC COVERAGE: City of Oakland

THIS ACTIVITY STARTED: 01/01/1985 and CONTINUING as of: 03/29/1989 (dates may be approximate).

KEYWORDS: administrative support, allocates funds, ground water cleanup, pertinent reports available, technical support, hazardous material spills, emergency response plan, inventory.

FOR DETAILS, CONTACT: Jim Worlund, Emergency Plan Coordinator

PHONE: (415) 273-3938

This summary information was LAST VERIFIED on: 03/29/1989

City of Oceanside; Community Development Planning

Street address of Organization: 320 North Horne St; Oceanside, CA 92054

PROGRAM: City of Oceanside Hazardous Waste Management Planning

The management of all hazardous wastes produced by industries, businesses, homes, and other sources within a city's jurisdiction is guided by a hazardous waste management plan. The plan includes an analysis of the volume and types of hazardous wastes generated, a survey of the potential for recycling and reducing the volume of wastes generated. Sites that would be suitable for the placement of future facilities are inventoried.

References: AB2948 (1986, Tanner)

GEOGRAPHIC COVERAGE: City of Oceanside

THIS ACTIVITY STARTED: 08/01/1988 and CONTINUING as of: 01/29/1990 (dates may be approximate).

KEYWORDS: administrative support, pertinent reports available, planning, technical support, hazardous waste management, land use decisions, waste disposal.

FOR DETAILS, CONTACT: Elizabeth Graff, Development Services Coordinator

PHONE: (619) 439-7361

This summary information was LAST VERIFIED on: 01/29/1990