

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

ORDER NO. 98-044

WASTE DISCHARGE REQUIREMENTS

FOR
CALAVERAS COUNTY WATER DISTRICT
WILSEYVILLE WASTEWATER TREATMENT PLANT
CALAVERAS COUNTY

The California Regional Water Quality Control Board, Central Valley Region, (hereafter Board), finds that:

1. Calaveras County Water District submitted a Report of Waste Discharge on 5 December 1997 for updating waste discharging requirements for Wilseyville Wastewater Treatment Plant. The wastewater and disposal site (Assessor's Parcel No. 10-19-36) is owned by Calaveras County Water District.
2. Calaveras County Water District, Wilseyville Wastewater Treatment Plant is in Section 14, T6N, R13E, MDB&M with surface water drainage to South Fork Mokelumne River via unnamed tributary as shown in Attachment A, which is attached hereto and part of the Order by reference. The site lies within the Upper Mokelumne Hydrologic Unit/ Area/ Subarea No. 532.60, as depicted on the interagency hydrologic maps prepared by the Department of Water Resources in August 1986.
3. Waste Discharge Requirements Order No. 82-015, adopted by the Board on 26 February 1982, prescribes requirements for a discharge from the Wilseyville Wastewater Treatment Plant to land.
4. Order No. 82-015 is neither adequate nor consistent with current plans and policies of the Board.
5. Wilseyville Wastewater Treatment Plant is on Rail Road Flat Road in the community of Wilseyville. The treatment of domestic wastewater consists of a pond with a single aerator. The aerator operates 24-hours a day. The pond was designed for an average dry weather flow (ADWF) of 9,000 gallons per days (gpd) and serves up to 27 residents and a general store. An on-site, 10-acre irrigation field is used occasionally. Soil in the treatment and irrigation area primarily consists of interlayered light brown to red-brown fine sandy to clayey silts and silt clay. Storm water runoff to the pond is captured by a concrete ditch and is diverted off-site. Potable water for the community of Wilseyville is provided by Calaveras County Water District.
6. The California Department of Health Services has established statewide reclamation criteria in Title 22, California Code of Regulations, Section 60301, et seq. (hereafter Title 22) for the use of reclaimed water, and has developed guidelines for specific uses. These uses are consistent with those guidelines.

WASTE DISCHARGE REQUIREMENTS
CALAVERAS COUNTY WATER DISTRICT
WILSEYVILLE WASTEWATER TREATMENT PLANT
CALAVERAS COUNTY

-2-

7. The Board adopted a Water Quality Control Plan, Third Edition, for the Sacramento River Basin and the San Joaquin River Basin, (hereafter Basin Plan) which contains water quality objectives for all water of the Basin. These requirements implement the Basin Plan.
8. The beneficial uses of the South Fork Mokelumne River are municipal, industrial, and agricultural supply; recreation; aesthetic enjoyment; navigation; fresh water replenishment; and preservation and enhancement of fish, wildlife, and other aquatic resources.
9. The beneficial uses of underlying groundwater are domestic, industrial, and agricultural supply.
10. The action to update waste discharge requirements for this facility is exempt from provisions of the California Environmental Quality Act (CEQA), in accordance with Title 14, California Code of Regulations (CCR), Section 15301.
11. This discharge is exempt from the requirements of Title 27, CCR, Section 20080, et seq. The exemption, pursuant to Section 20090 (b), is based on the following:
 - a. The Board is issuing waste discharge requirements, and
 - b. the discharge complies with the Basin Plan, and
 - c. the wastewater does not need to be managed according to 22 CCR, Division 4.5, Chapter 11, as hazardous waste.
12. The Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for this discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
13. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that Order No. 82-015 is rescinded and that Calaveras County Water District, its agents, successor, and assign, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Discharge Prohibitions:

1. Discharge of waste to surface waters or surface water drainage courses is prohibited.
2. Bypass or overflow of untreated or partially treated waste is prohibited.
3. Discharge of waste classified as 'hazardous' under Section 2521, Chapter 15 of Title 23 or 'designated', as defined in Section 13173 of California Water Code is prohibited.

B. Discharge Specifications:

WASTE DISCHARGE REQUIREMENTS
CALAVERAS COUNTY WATER DISTRICT
WILSEYVILLE WASTEWATER TREATMENT PLANT
CALAVERAS COUNTY

-3-

1. The monthly average dry weather discharge flow shall not exceed 9,000 gallons per day.
2. Objectionable odors originating at this facility shall not be perceivable beyond the limits of the wastewater treatment and disposal areas.
3. As a means of discerning compliance with Discharge Specification No. 2, the dissolved oxygen content in the upper zone (1 foot) of wastewater in ponds shall not be less than 1.0 mg/l.
4. The pond shall be designed, constructed, operated, and maintained to prevent inundation or washout due to floods with a 100-year return frequency.
5. The pond shall not have a pH less than 6.5 or greater than 8.5.
6. The pond shall be managed to prevent breeding of mosquitoes. In particular,
 - a. An erosion control program should assure that small coves and irregularities are not created around the perimeter of the water surface.
 - b. Weeds shall be minimized through control of water depth, harvesting, or herbicides.
 - c. Dead algae, vegetation, and debris shall not accumulate on the water surface.
7. Public contact with wastewater shall be precluded through such means as fences, signs, and other acceptable alternatives.
8. The pond shall have sufficient capacity to accommodate allowable wastewater flow, designed seasonal precipitation, and ancillary inflow and infiltration during the nonirrigation season. Freeboard shall never be less than two feet measured vertically to the lowest point of overflow.
9. On or about 1 October of each year, available pond storage capacity shall at least equal the volume necessary to comply with Discharge Specification No. 8.

C. Reclamation Specifications:

1. Public contact with the reclaimed water shall be precluded through such means as fences, signs, and other acceptable alternatives.
2. Area irrigated with reclaimed water shall be managed to prevent breeding of mosquitoes. More specifically,

WASTE DISCHARGE REQUIREMENTS
CALAVERAS COUNTY WATER DISTRICT
WILSEYVILLE WASTEWATER TREATMENT PLANT
CALAVERAS COUNTY

-4-

- a. Tail water must be returned and all applied irrigation water must infiltrate completely within 48-hours.
 - b. Ditches not serving as wildlife habitat should be maintained free of emergent, marginal, and floating vegetation.
 - c. Low-pressure and unpressurized pipelines and ditches accessible to mosquitoes shall not be used to store reclaimed water.
3. Reclaimed water for irrigation shall be managed to minimize erosion, runoff, and movement of aerosols from the disposal area.
 4. Direct or windblown spray shall be confined to the designated reclamation area and prevented from contacting drinking water facilities.
 5. The Discharger may not spray irrigate effluent during periods of precipitation and for at least 24 hours after cessation of precipitation, or when winds exceed 30 mph.
 6. Application of reclaimed wastewater to the reclamation area shall be at reasonable rates considering the crop, soil, climate, and irrigation management system. The nutrient loading of the reclamation area, including the nutritive value of organic and chemical fertilizers and of the reclaimed water, shall not exceed the crop demand.
 7. There shall be no irrigation or impoundment of reclaimed water within 500 feet of any domestic water well or within 100 feet of any irrigation well unless it is demonstrated to the satisfaction of the Executive Officer that less distance is justified.
 8. Storm water runoff from the irrigation field shall not be discharged to any surface water drainage course within 48-hours of the last application of reclaimed water.
 9. A 100-foot buffer shall be maintained between any watercourse and the wetted area produced during spray disposal.
 10. A 50-foot buffer shall be maintained between public roads and property lines during spray disposal.

D. Sludge Disposal:

1. Collected screenings, sludge, and other solids removed from liquid wastes shall be disposed of in a manner that is consistent with Title 27 of the California Code of

Regulations and approved by the Executive Officer.

2. Any proposed change in sludge use or disposal practice from a previously approved practice shall be reported to the Executive Officer and U.S. Environmental Protection Agency (EPA) Regional Administrator at least 90 days in advance of the change.
3. Use and disposal of sewage sludge shall comply with existing Federal and State laws and regulations, including permitting requirements and technical standards included in 40 CFR 503.

If the State Water Resources Control Board and the Regional Water Quality Control Board are given the authority to implement regulations contained in 40 CFR 503, this Order may be reopened to incorporate appropriate time schedules and technical standards. The Discharger must comply with the standards and time schedules contained in 40 CFR 503 whether or not they have been incorporated into this Order.

4. **Thirty days** after the adoption of this Order, the Discharger shall submit a sludge disposal plan describing the annual volume of sludge generated by the plant and specifying the disposal practices.

E. Groundwater Limitations:

The discharge shall not cause underlying groundwater to:

1. Be degraded.
2. Exceed a most probable number of total coliform organisms of 2.2/100 ml over any seven-day period.
3. Contain taste or odor-producing substances in concentrations that cause nuisance or adversely affect beneficial uses.
4. Contain concentrations of chemical constituents in amounts that adversely affect agricultural use.

F. Provisions:

1. The Discharger shall comply with the Monitoring and Reporting Program No. 98-044, which is part of this Order, and any revisions thereto as ordered by the Executive Officer.
2. The Discharger shall comply with the “Standard Provisions and Reporting Requirements for Waste Discharge Requirements”, dated 1 March 1991, which are attached hereto and by reference a part of this Order. This attachment and its individual paragraphs are commonly referenced as “Standard Provision(s).”
3. In the event of any change in control or ownership of land or waste discharge facilities described herein, the Discharger shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be immediately forwarded to this office.
4. At least **90 days** prior to termination or expiration of any lease, contract, or agreement involving disposal or reclamation areas or off-site reuse of effluent, used to justify the capacity authorized herein and assure compliance with this Order, the Discharger shall notify the Board in writing of the situation and of what measures have been taken or are being taken to assure full compliance with this Order.
5. The Discharger must comply with all conditions of this Order, including timely submittal of technical and monitoring reports as directed by the Executive Officer. Violations may result in enforcement action, including Regional Board or court orders requiring correction action or imposing civil monetary liability, or in revision or rescission of this Order.
6. A copy of this Order shall be kept at the discharge facility for reference by operating personnel. Key operating personnel shall be familiar with its contents.
7. If reclaimed water is used for construction purposes, it shall comply with the most current edition of “Guidelines for Use of Reclaimed Water for Construction Purposes”. Other uses of reclaimed water not specifically authorized herein shall be subject to the approval of the Executive Officer and shall comply with 22 CCR, Division 4.

WASTE DISCHARGE REQUIREMENTS
CALAVERAS COUNTY WATER DISTRICT
WILSEYVILLE WASTEWATER TREATMENT PLANT
CALAVERAS COUNTY

-7-

8. The Board will review this Order periodically and will revise requirements when necessary.

I, GARY M. CARLTON, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Central Valley Region, on 27 February 1997.

Original signed by

GARY M. CARLTON, Executive Officer

IK:ik/njs

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO. 98-044

FOR
CALAVERAS COUNTY WATER DISTRICT
WILSEYVILLE WASTEWATER TREATMENT PLANT
CALAVERAS COUNTY

INFLUENT MONITORING

<u>Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Flow	mgd	Meter	*

* June and September, portable instrument

EFFLUENT MONITORING

Effluent sample shall be collected just prior to discharge to the disposal facility. Effluent samples should be representative of the volume and nature of the discharge. Time of collection of a grab sample shall be recorded. Effluent monitoring shall include at least the following:

<u>Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u> ¹
20°C BOD ₅ ²	mg/l	Grab	Monthly
Suspended Matter	mg/l	Grab	Monthly
Specific Conductivity	µmhos/cm	Grab	Monthly
pH	pH Unit	Grab	Monthly

¹ during irrigation

² Biochemical Oxygen Demand, 5 day at 20°C

POND MONITORING

The following shall constitute the pond monitoring program:

<u>Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Dissolved Oxygen	mg/l	Grab	Monthly

MONITORING AND REPORTING PROGRAM
CALAVERAS COUNTY WATER DISTRICT
WILSEYVILLE WASTEWATER TREATMENT PLANT
CALAVERAS COUNTY

<u>Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
pH	pH Unit	Grab	Quarterly
Specific Conductivity	µmhos/cm	Grab	Quarterly
Freeboard	feet	-----	Monthly

REPORTING

In reporting the monitoring data, the Discharger shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized in such a manner to illustrate clearly the compliance with waste discharge requirements.

The Monitoring report shall be submitted **monthly** to the Regional Board by the **20th day** of the following month. The results of any monitoring done more frequently than required at the locations specified in the Monitoring and Reporting Program shall be reported to the Board.

Upon written request of the Board, the Discharger shall submit a report to the Board by **30 January** of each year. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the Discharger shall discuss the compliance record and the corrective actions taken or planned which may be needed to bring the discharge into full compliance with the waste discharge requirements.

The Discharger shall implement the above monitoring program as of the date of this Order.

Ordered By: _____
GARY M. CARLTON, Executive Officer

27 February 1998
(Date)

IK:ik/njs

INFORMATION SHEET

CALAVERAS COUNTY WATER DISTRICT
WILSEYVILLE WASTEWATER TREATMENT PLANT
CALAVERAS COUNTY

Waste Discharge Requirements Order No. 82-015, adopted by the Board on 26 February 1982, need to be updated to current Board policies and standards. Calaveras County Water District, Wilseyville Wastewater Treatment Plant, is on Rail Road Flat Road in the community of Wilseyville.

Calaveras County Water District owns and operates Wilseyville Wastewater Treatment Plant. The plant serves approximately 27 homes and a general store. The plant was originally built to serve a former lumber company. The plant consists of a pond with a single aerator at a design average dry weather flow (ADWF) rate of 9,000 gallons per day (gpd). Storm water runoff to the pond is captured by a concrete ditch and is diverted off-site. A 10-acre irrigation field is also available for disposal. Surface water drains into the South Fork Mokelumne River.

IK/ns/27 February 1998