
INITIAL STUDY and
Negative Declaration
For
Conditional Waiver of
Waste Discharge Requirements for
Discharges from Irrigated Lands

Central Coast Regional Water Quality Control Board

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Attachments

1. Draft Order titled “Conditional Waivers of Waste Discharge Requirements for Discharges from Irrigated Lands”
2. Draft Monitoring and Reporting Program titled “Monitoring and Reporting Program No. R3-2004-XXXX for Dischargers Enrolled under Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands”

Project Information Form

Central Coast Regional Water Quality Control Board

Draft Negative Declaration

- 1. Project title:** Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands
- 2. Lead agency name and address:** Central Coast Regional Water Quality Control Board
895 Aerovista Place
San Luis Obispo, CA 93401
- 3. Contact person and phone number:** Alison Jones, Environmental Scientist
(805) 542-4646
- 4. Project location:** Central Coast Region
- 5. Project sponsor's name and address:** Not applicable
- 6. General plan designation:** Not applicable
- 7. Zoning:** Not applicable

8. Description of project: Section 13269 of the California Water Code (CWC) authorizes the Central Coast Regional Water Quality Control Board (Regional Board) to waive waste discharge requirements (WDRs) for a specific discharge or specific type of discharge if the waiver is in the public interest. The waiver must be conditional and may be terminated at any time. The Regional Board may also waive the requirement to submit a report of waste discharge. In 1999, Senate Bill 390 amended CWC Section 13269. CWC Section 13269 specifies that waivers in effect on January 1, 2000, terminate on January 1, 2003, but may be renewed following a hearing. Waivers may only be adopted for a maximum of five years.

The Regional Board proposes to adopt a conditional waiver of WDRs for discharges from irrigated lands, including tailwater, subsurface drainage, and stormwater runoff, and to waive the requirement to submit reports of waste discharge. Irrigated lands include nurseries and soil-floored greenhouses as well as lands planted to row crops, vineyards, tree crops, and field crops. This waiver would be in effect for five years beginning July 8, 2004.

The conditions of the proposed waiver would require all owners and operators of irrigated lands in the Central Coast Region to: 1) enroll with the Regional Board by submitting a Notice of Intent, 2) complete fifteen hours of water quality education, 3) develop a farm water quality management plan that addresses, at a minimum, erosion control, irrigation management, nutrient management and pesticide management, 4) implement management practices in accordance with the farm plan, and 5) conduct individual monitoring or participate in a cooperative monitoring program.

This waiver would set forth two categories of waivers of Waste Discharge Requirements. One category (Tier 1) applies to dischargers who have already completed the education and farm plan development requirements and have begun to implement management practices for their operations. The other category (Tier 2) applies to dischargers who have not yet completed all the requirements for a Tier 1 waiver. Tier 2 waivers would be renewable annually for up to three years.

The conditions of the waiver include timely completion of education and plan development requirements, implementation and reporting of management practices designed to protect water quality, and compliance with all requirements of applicable water quality control plans.

The goal of the waiver program is to manage discharges from irrigated lands to ensure that such discharges do not cause or contribute to conditions of pollution or nuisance as defined in Section 13050 of the California Water Code and do not cause or contribute to exceedances of any Regional, State, or Federal numeric or narrative water quality standard.

Details of the proposed waiver conditions are contained in the attached draft order (*Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands*).

9. Surrounding land uses and settings: The project encompasses approximately 600,000 acres of irrigated agricultural lands in the Central Coast Region, and includes the irrigated lands in the Pajaro, Salinas, Santa Maria, and Santa Ynez River watersheds as well as several smaller coastal streams. Although agriculture (irrigated lands and rangeland) is the dominant land use throughout the Central Coast Region, many watersheds have mixed uses, where agricultural lands are interspersed with rural residential, suburban and urban areas. Salinas, the Region's largest city, has a population of more than 100,000, and lies surrounded by agricultural lands at the base of the watershed of the Salinas River, which drains to Monterey Bay National Marine Sanctuary. The Central Coast Regional Water Quality Control Board has jurisdiction over all of the watersheds listed above, which all drain to the Pacific Ocean. The region includes all or part of the following counties: San Mateo, Santa Cruz, Santa Clara, San Benito, Monterey, San Luis Obispo, Santa Barbara and Venture.

10. Other public agencies whose approval is required: None

Environmental Factors List

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental resource categories identified below are analyzed herein to determine whether the Proposed Project would result in adverse impacts to any of these resources. None of the categories below are checked because the Proposed Project is not expected to result in “significant or potentially significant impacts” to any of these resources.

Aesthetics	Biological Resources
Hazards & Hazardous Materials	Mineral Resources
Public Services	Utilities/Service Systems
Agriculture Resources	Cultural Resources
Hydrology/Water Quality	Noise
Recreation	Mandatory Findings of Significance
Air Quality	Geology/Soils
Land Use Planning	Transportation/Traffic

Determination

The Central Coast Regional Water Quality Control Board has reviewed the proposed project and has determined that the project, based on the Initial Study attached hereto, will not have a significant effect on the environment. An environmental impact report is not required pursuant to the California Environmental Quality Act of 1970 (CEQA). This environmental review process and negative declaration is done in accordance with CEQA (PRC 21000 et seq.) and the CEQA Guidelines (14 CCR 15000 et. Seq.)

Based on the findings of the Initial Study, the project would not:

- Degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of California history or prehistory.
- Achieve short-term, to the disadvantage of long-term, environmental goals.
- Have impacts that are individually limited, but cumulatively considerable.
- Have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly.

On the basis of this initial evaluation:

- I find that the Proposed Project **COULD NOT** have a significant effect on the environment, and a **NEGATIVE DECLARATION** will be prepared.
- I find that although the Proposed Project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the Project have been made by or agreed to by the Project proponent. A **MITIGATED NEGATIVE DECLARATION** will be prepared.

- I find that the Proposed Project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- I find that the Proposed Project MAY have a “potentially significant impact” or “potentially significant unless mitigated” impact on the environment, but at least one effect: 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
- I find that although the Proposed Project could have a significant effect on the environment because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the Proposed Project, nothing further is required.

No potentially significant impacts were identified.

Signature

Date

Printed Name

Organization

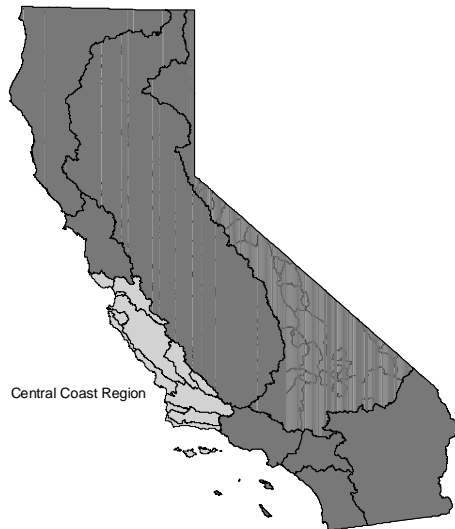
1 Initial Study

1.1 Project Purpose

The purpose of the project is to adopt an Order approving a “Conditional Waiver of Waste Discharge Requirement for Discharges from Irrigated Lands” (Waiver). (See attached Order and Waiver) that would regulate the discharge of waste from irrigated lands, including commercial nurseries and soil-floored greenhouses, consistent with the California Water Code and other goals, policies and objectives of the State of California.

1.2 Location

The Waiver applies to all of the irrigated land within the jurisdiction of the Central Coast Regional Water Quality Control Board.



1.3 Background

Regulatory Requirements

Although discharges that constitute “agricultural return flows” are exempt from regulation through the National Pollutant Discharge Elimination System (NPDES) permit program of the federal Clean Water Act, they are not exempt from the California Water Code. Any discharge from irrigated agricultural activities to surface water or to land, that impacts or threatens to impact water quality, is subject to regulation under Porter-Cologne Water Quality Control Act.

CWC Section 13260 requires persons who are discharging or who propose to discharge waste where it could impact the quality of waters of the State to submit a Report of Waste Discharge. The Regional Board uses the Report of Waste Discharge in preparing Waste Discharge Requirements that regulate the discharges of waste in compliance with the CWC and other applicable laws and regulations. The purpose of this regulatory program is to protect the beneficial uses of the waters of the State.

CWC Section 13269 authorizes the Regional Board to waive Waste Discharge Requirements for a specific discharge or specific type of discharge if the waiver is in the public interest. The waiver must be conditional and may be terminated at any time. The Regional Board may also waive the requirement to submit a Report of Waste Discharge. In 1999, Senate Bill 390 amended CWC Section 13269. CWC Section 13269 now specifies that all waivers in effect on January 1, 2000, were terminated on January 1, 2003, unless renewed following a hearing. All waivers must be reviewed and renewed or revised at least every five years.

In 1983, the Regional Board approved a list of categories of discharge for which waste discharge requirements could be waived, including discharge of irrigation return flows (tailwater) and non-NPDES stormwater runoff. When waivers for discharges from irrigated agriculture were adopted in 1983, little was known about the potential impacts of irrigation tail water and other runoff or the magnitude of groundwater impacts from the use of inorganic fertilizers. Regional Board regulatory effort at that time was largely focused on addressing point source discharges such as wastewater treatment plants and industrial dischargers, and cleanups from spills and leaks. Even though the waiver policy included agricultural tail water as appropriate for waivers, the Regional Board did not issue individual formal waivers for these discharges. The 1983 waivers pertaining to irrigated agriculture were not renewed before January 1, 2003, and have now terminated.

In 1987, Section 319 was added to the Clean Water Act to address nonpoint source pollution, and subsequently the State of California adopted its Nonpoint Source Program in 1988. Although staff resources were extremely limited, the Regional Board began to work with agriculture through the Nonpoint Source (NPS) Program and later the State's Watershed Management Initiative. Since the inception of the NPS program, the Regional Board's emphasis in working with agriculture has been on encouraging proactive efforts to address water quality concerns, and supporting such cooperative partnerships as Monterey Bay National Marine Sanctuary's Plan for Agriculture. The Regional Board has directed grant funding toward increasing educational outreach, and has encouraged efforts toward self-determined compliance with water quality regulations through promotion of ranch and farm water quality management planning short courses throughout the region.

The State's NPS Plan identifies waivers (Tier 2, "Regulatory Encouragement") as an appropriate regulatory tool available to protect water quality from NPS pollution, recognizing the challenges involved in regulating a large number of individual dischargers.

Agriculture in the Central Coast Region

Irrigated agriculture in the Central Coast Region comprises approximately 600,000 acres and more than 100 different crops. There are about 2500 agricultural operations in the region that would be enrolled under this program. Operations range in size from less than ten acres to more than 2000; however, approximately two-thirds of all operations are less than fifty acres. About one-third are less than ten acres. Fewer than 200 operations (less than 8%) exceed 2000 acres. Major crops include vegetable crops (such as lettuce, broccoli, cauliflower, celery, cabbage and spinach), fruits (such as strawberries and wine grapes), cut flowers, and potted plants. Other crops include mushrooms, artichokes, raspberries, asparagus, carrots, onions, snap peas, and many more.

Agriculture is concentrated in several major drainages, including the Salinas Valley and upper Salinas watershed, the Pajaro Valley, the lower Santa Maria River, the Santa Ynez

Valley and the Santa Barbara coastal area, as well as in numerous small drainages throughout the region.

A number of factors make agriculture in the Central Coast region unique. In general, farming is on a smaller scale than in the Central or Imperial Valleys. The Central Coast climate is unique in California and comprises a “niche” in the agricultural industry that distinguishes Central Coast farm products from other areas. The majority of operations are less than 50 acres. There are no large irrigation districts since most operations use groundwater as their water source. Many properties have been held in families for generations and are leased out rather than sold. The area is considered highly desirable, and growth pressures drive up the price of agricultural rents. There is a mixture of owned and leased lands and many operators own some ranches and lease others. Leases can be either short or long term (one year or more than five years), resulting in varying incentive by lease-holders to implement water quality protection.

Crop prices are primarily controlled by the existing market structure. Consolidation in the food industry has resulted in a smaller group of buyers, giving corporate retailers more bargaining power. In addition, local farmers often compete with products from other countries, where the costs of production may be substantially less. The result is that growers often have little control over the price they are paid even though the costs of producing and delivering products continues to rise. Additionally, issues of food safety are increasingly dictating practices growers must use in order to sell crops, and some recommended food safety practices may run counter to water quality protection practices. Because of these and other factors, the agricultural industry is extremely sensitive to cost increases and management practice requirements.

Existing Water Quality in Agricultural Areas

Information available to the Regional Board, including information used in identifying impaired water bodies within the Region in accordance with Clean Water Act section 303(d), indicates that irrigation return water and storm water runoff from irrigated lands contains waste that has impacted water quality in the waters of the State within the Region.

Over the past five years, the Regional Board’s Central Coast Ambient Monitoring Program (CCAMP) has provided information to characterize water quality, support waterbody beneficial use determinations, support waterbody listings for impairment, and to evaluate regional priorities. Under CCAMP, the Region has been divided into five rotational monitoring areas, based on hydrologic units such as the Pajaro River, Salinas River and Santa Maria River. Each rotational area is monitored once every five years. CCAMP performs tributary-based, in-stream monitoring at fixed sites throughout the rotational area on a monthly basis. The same sites are monitored again during the next rotational cycle.

CCAMP data, as well as other data sources, have shown that waterbodies in areas of intensive agriculture often have high levels of nutrients. For example, nitrate in some surface waters is present at levels far in excess of the drinking water standard of 10 mg/L as N (nitrogen). Persistent toxicity has also been documented in some areas of intensive agricultural operations, with its cause being traced to currently applied pesticides. Many surface waterbodies are on the Clean Water Act Section 303(d) list of impaired waters for pollutants associated with agricultural activities, and are scheduled for development of Total Maximum Daily Loads. Of the region’s 178 currently listed waterbodies, about 75 designate agriculture as a potential source. In addition, many groundwater basins underlying agricultural areas in

the Central Coast Region show elevated nitrate concentrations, in some cases well over the drinking water standard.

Existing Efforts by the Agricultural Industry to Address Water Quality Issues

The Central Coast Region has benefited from the proactive approach taken by several segments of the agricultural industry. Notable examples include the Agricultural Water Quality Program of the Coalition of Central Coast County Farm Bureaus (Farm Bureau Coalition) and efforts to promote sustainable wine growing practices by the Central Coast Vineyard Team and the Central Coast Winegrowers Association. Efforts are also underway to promote sustainable practices by Spanish-speaking farmers through the Rural Development Center and the Agricultural Land-Based Training Association (ALBA) in Monterey County.

The Farm Bureau Coalition has been working to address agricultural water quality impacts in areas that drain to the Monterey Bay National Marine Sanctuary, which represents approximately two-thirds of the region. This is a broadly supported cooperative effort that is implementing the Sanctuary's Plan for Agriculture and Rural Lands. The Sanctuary Plan was developed in cooperation with the California State Farm Bureau Federation and the Coalition of Central Coast County Farm Bureaus, the Regional Board and numerous other partners, including University of California Cooperative Extension, the Natural Resource Conservation Service and local Resource Conservation Districts.

Key components of the Sanctuary Plan implementation strategy include formation of grower working groups, and development and implementation of farm water quality management plans. Technical assistance is provided by Farm Bureau watershed coordinators active in each county, as well as all of the other partners listed above. Farm Bureau watershed coordinators provide the Regional Board with annual reports summarizing practice implementation and self-monitoring results by grower watershed working groups.

A small but significant (and increasing) percentage of growers on the Central Coast are participating in the Farm Bureau Coalition's program. As of March 2004, there were 17 active grower watershed working groups and another 17 in the process of organizing. The Regional Board estimates that active participants represent approximately 10% of operations in the region. Participants are often industry leaders who have chosen to be proactive in addressing water quality concerns.

In 1999, the University of California Cooperative Education and the Natural Resources Conservation Service developed and piloted a Farm Water Quality Planning short course in the Central Coast, to provide farmers with the information and resources needed to address water quality issues on their farms. The course provides farmers with information on water quality management practices for irrigation, pesticides, nutrients, and erosion control. Course participants are able to complete a farm water quality management plan by the end of the 15-hour course. In 2001, UC Cooperative Extension and the Farm Bureau Coalition teamed up to offer the short course to members of grower working groups that are implementing the Sanctuary Plan for Agriculture. As of May 2004, more than 500 Central Coast farmers will have completed the course. Funding to support farm water quality planning has come from a variety of sources, including a current Clean Water Act Section 319(h) grant from the Regional Board. The Regional Board has been closely involved in the development of the short course. Regional Board staff, along with UC Cooperative Extension, NRCS, local Resource Conservation Districts, California Department of Fish and Game and others, participate in teaching the classes.

Another industry-led effort has been underway for several years to promote sustainable practices by wine grape growers. There are approximately 100,000 acres of grapes in the Central Coast, representing about 16% of the irrigated croplands in the region. Many of the growers have undertaken an evaluation process to assess irrigation, nutrient management, pest management, and erosion control practices through the Positive Point System developed by the Central Coast Vineyard Team (CCVT). CCVT estimates that approximately 75-100 operations have completed the Positive Point System evaluations and are using them to evaluate management practices and identify opportunities for improvement.

Agricultural Advisory Panel Recommendations

In beginning to develop a replacement for the old waivers, Regional Board staff held a number of informal discussions with several agricultural and environmental groups throughout the Region. After hearing comments during several such meetings, staff concluded that the interests of all concerned would be best served by face-to-face meetings among all parties. The Central Coast Region is relatively small, at least compared to the Central Valley Region, California's other major agricultural Region. This feature made it feasible to convene an advisory group of agricultural and environmental representatives from across the Region. Participants included the Ocean Conservancy, the Central Coast Coalition of County Farm Bureaus, Monterey County Farm Bureau, Jefferson Farms, Santa Cruz County Farm Bureau, San Benito County Farm Bureau, the Environmental Center of San Luis Obispo (ECOSLO), the Environmental Defense Center, Monterey Bay National Marine Sanctuary, the Agricultural Land-Based Training Association (ALBA), the Central Coast Winegrowers Association, San Luis Obispo County Farm Bureau and Cattlemen's Association, Santa Barbara County Farm Bureau, Grower Shipper Vegetable Association of Santa Barbara, and Santa Barbara Channel Keeper. Several other organizations that were contacted felt that their interests were adequately represented but expressed a desire to be kept informed.

Panel meetings were conducted as facilitated discussion sessions. The group adopted ground rules and spent time hearing about the interests and concerns of each of the participants. In this way, a foundation of understanding was built that allowed the participants to discuss ideas and propose solutions in a respectful environment. At the second meeting, the panel agreed on a mission statement, which reads, "The goal of the panel is to assist staff in developing recommendations to the Regional Board for a replacement to the expired waivers that will be protective of water quality, the viability of Central Coast agriculture, and comply with state law."

All panel recommendations were developed by consensus. Although the panel did not have consensus on all aspects of the proposed program, considerable progress was made during the year of panel meetings. The input provided by the panel has been very valuable in helping staff develop the proposed Waiver program. Perhaps even more importantly, a foundation has been laid for future communication between the agricultural and environmental communities across the Central Coast Region, as well as with the Regional Board.

Among the recommendations of the panel are the education and farm water quality plan development requirements, management practice implementation and reporting through a checklist format, and the tiered structure of the waivers, which offer reduced reporting requirements for those meeting all the requirements by the enrollment deadline. The panel also recommends that monitoring focus on currently applied agricultural constituents, make use of existing monitoring resources wherever possible, and be structured on a regionwide, cooperative basis rather than on individual discharge monitoring.

Program Implementation Costs

The Regional Board has attempted to consider costs to both the Regional Board and the regulated community in developing the conditional waivers. Anticipated program implementation costs to the agricultural community include potential fees, management practice implementation, monitoring costs and costs for education. Costs to the Regional Board include staff time for program development, outreach to the regulated community, submittal review, program oversight and enforcement.

The Regional Board has endeavored to develop a cost-effective approach to water quality protection, by focusing on management practice implementation and by developing a regionalized monitoring option that will focus monitoring resources on currently applied agricultural constituents and concentrate monitoring in areas where data already indicates problems associated with agricultural activities. Primary focus during the first waiver cycle will be on performance requirements and use of water quality information to adjust practice implementation. To reduce administrative costs, staff is exploring such data management options as direct monitoring data submittals, web-based enrollment and practice reporting, and coordination with pesticide use reporting.

1.4 Project Description

The Regional Board proposes to adopt a conditional waiver of waste discharge requirements and a waiver of the requirement to submit a report of waste discharge for discharges of waste from irrigated lands. Irrigated lands are lands where water is applied for producing crops and, for the purpose of this program, include, but are not limited to, land planted to row, vineyard, field and tree crops as well as commercial nurseries, nursery stock production and greenhouse operations with soil floors that are not currently operating under Waste Discharge Requirements (WDRs). Fully contained greenhouse operations (those that have no groundwater discharge due to impervious floors) are not covered under this Conditional Waiver and must either eliminate all surface water discharges or apply for Waste Discharge Requirements.

Discharges include surface discharges (also known as irrigation return flows or tailwater), subsurface drainage generated by installing drainage systems to lower the water table below irrigated lands (also known as tile drains), discharges to groundwater, and storm water runoff flowing from irrigated lands. These discharges can contain wastes that could affect the quality of waters of the state.

Discharger means the owner and/or operator of irrigated cropland on or from which there are discharges of waste that could affect the quality of any surface water or groundwater.

Tiered Waiver Structure

Two categories of conditional waivers are proposed, in acknowledgement that a significant number of farmers in the Central Coast Region have already begun to actively address water quality protection by obtaining water quality education, developing farm plans or completing practice assessment tools, and changing their practices to protect and improve water quality.

Tier 1(five-year) waivers are intended for those dischargers that have already completed a minimum of fifteen hours of farm water quality training, have completed farm water quality plans, and have begun the process of implementing management practices to protect water

quality. Tier 1 waivers are valid for five years or the length of time remaining in the five-year waiver cycle.

Tier 2 (one-year) waivers are intended for those dischargers that cannot meet all requirements of Tier 1 by the enrollment deadline of December 1, 2004. Tier 2 waivers are renewable annually for a maximum of three years. A discharger may move from Tier 2 to Tier 1 at any time during the three year period. Tier 2 dischargers that have not met all requirements for a Tier 1 waiver by the end of three years may be required to apply for waste discharge requirements unless they can demonstrate progress toward meeting Tier 1 requirements as well as extenuating circumstances, such as lack of available training classes, that prevented them from meeting all requirements within the allotted time period.

Tiered conditional waivers will provide increased regulatory oversight and focus attention on those dischargers that have not begun to address water quality issues, while allowing those dischargers that are already working toward full compliance with water quality objectives to devote their time and resources to implementing management practices. The time schedule will allow a limited amount of time to meet requirements for education and planning, and allow time for implementation and adjustment of management practices. Dischargers will report current and planned management practice implementation upon enrollment and during the five-year waiver cycle through annual or biennial reports. Waste discharge requirements and enforcement will be reserved for non-compliant dischargers, or if water quality does not improve.

Enrollment

All applicants will be required to submit the following information as part of their Notice of Intent (NOI) to enroll:

- Completed application form
- Copy of map of operation (map should be the same as the one submitted to the County Agricultural Commissioner for Pesticide Use Reporting, or equivalent)
- Completed management practice checklist/self assessment form
- Certificates of attendance at Regional Board-approved farm water quality education courses, if applicable
- Statement of farm water quality plan completion, if applicable
- Election for cooperative or individual monitoring

Waiver Conditions

All waiver holders will be required to meet the following conditions:

1. The Discharger shall not cause or contribute to conditions of pollution or nuisance as defined in CWC Section 13050.
2. The Discharger must comply with all requirements of applicable water quality control plans.
3. The Discharger shall not cause or contribute to exceedances of any Regional, State, or Federal numeric or narrative water quality standard.
4. Wastewaters percolated into groundwater shall be of such quality at the point where they enter the ground so as to assure the protection of all actual or designated beneficial uses of all groundwaters of the basin.

5. Wastes discharged to groundwater shall be free of toxic substances in excess of maximum contaminant levels (MCLs) for primary and secondary drinking water standards established by the United States Environmental Protection Agency or California Department of Health Services, whichever is more stringent; taste, odor, or color producing substances; and nitrogenous compounds in quantities which could result in a groundwater nitrate concentration (as NO₃) above 45 mg/l.
6. The Discharger shall comply with each applicable Total Maximum Daily Load (TMDL), including any plan of implementation for the TMDL, commencing with the effective date or other date for compliance stated in the TMDL. If an applicable TMDL does not contain an effective date or compliance date, the Discharger shall commence compliance with the TMDL's implementation plan no later than twelve months after USEPA approves the TMDL.
7. The Discharger shall allow Regional Board staff reasonable access onto the subject property (the source of runoff and percolating water) whenever requested by Regional Board staff for the purpose of performing inspections and conducting monitoring, including sample collection, measuring, and photographing to determine compliance with conditions of the waiver.
8. The Discharger shall comply with applicable time schedules.
9. This Conditional Waiver does not authorize the discharge of any waste not specifically regulated under this Order. Waste specifically regulated under this Order includes: earthen materials, including soil, silt, sand, clay, rock; inorganic materials including metals, salts, boron, selenium, potassium, nitrogen, phosphorus, etc.; and organic materials such as pesticides that enter or threaten to enter into waters of the state. Examples of waste not specifically regulated under this Order include hazardous materials, and human wastes.
10. Objectionable odors due to the storage of wastewater and/or stormwater shall not be perceivable beyond the limits of the property owned or operated by the Discharger.

Water Quality Monitoring

Water quality monitoring is a requirement of the waiver program. Dischargers will be required to elect a monitoring option during enrollment. They may choose individual monitoring or join a cooperative agricultural water quality monitoring program. The cooperative monitoring program will focus on currently applied agricultural constituents and is designed to provide information on in-stream water quality and detect trends over time. The cooperative monitoring option is proposed as an efficient way to determine the effectiveness of the waiver program at a reasonable cost, as well as to manage large amounts of monitoring data and ensure data quality.

Cooperative monitoring represents a watershed-based approach to meeting monitoring requirements. Fifty sites will be selected throughout the agricultural areas of the region, on main stems of rivers and on tributaries entering the rivers. These sites will be monitored on a regular basis, to see whether implementation of management practices as the result of adoption of the waiver is improving water quality. Sites will be selected in areas where the Regional Board's Central Coast Ambient Monitoring Program and other data have identified water quality problems from nutrients and other constituents that are likely attributable to irrigated agriculture. The cooperative monitoring program allows dischargers to pool resources in order to accomplish required monitoring at a lower cost than individual monitoring. Costs will be distributed based on a number of factors, including type and quantity of discharge, which will be determined by an Agricultural Monitoring Committee working with the Regional Board. The cooperative monitoring approach will also allow for additional resources, such as grant funds, to be utilized to reduce costs to dischargers.

Broad objectives of the cooperative monitoring program are to:

Short Term Objectives

- Assess status of water quality and associated beneficial uses in agricultural areas
- Identify problem areas associated with agricultural activities, where Basin Plan objectives are not met or where beneficial uses are impaired
- Conduct focused monitoring to further characterize problem areas and to better understand sources of impairment.
- Provide feedback to growers in problem areas; require additional monitoring and reporting as necessary to address problems

Long Term Objective

- Track changes in water quality and beneficial use support over time.

The focus of the cooperative monitoring program is on beneficial use protection and waterbody health as opposed to individual discharge (effluent) monitoring. Most of the major creeks and rivers of the Central Coast have designated beneficial uses that include cold and warm water fish habitat, agriculture, wildlife habitat, commercial and recreational fishing, and municipal and domestic supply. Other beneficial uses may also apply. Waterbodies which are not specifically identified in the Basin Plan also have designated beneficial uses, including municipal and domestic supply, recreation, and aquatic life (either for cold or warm water, whichever is applicable).

Impairment to beneficial uses in surface waters may result from conditions including nitrate concentrations which exceed the drinking water standard, toxic chemicals which exceed levels which are safe for human consumption or which cause toxicity or alterations in aquatic community structure, excessive buildup of salts to levels which create problems for irrigation and other uses, low dissolved oxygen levels which are harmful to aquatic life, and algal growth which may cause nuisance or otherwise impair beneficial uses. Some of these impairments are readily assessed through exceedance of numeric criteria. Others are assessed through narrative criteria (e.g. causing nuisance); in these cases a “weight of evidence” approach is desirable, where multiple measures of impairment are employed to determine if narrative objectives are met.

Assessing Program Effectiveness

The Regional Board will use a variety of tools to evaluate the overall effectiveness of the waiver program. Tasks and milestones will include enrollment levels in the two tiers, levels of farm water quality plan completion, levels and types of management practice implementation, and submittals of required reports according to the time schedule established in the waiver order. It is expected that most dischargers will have completed farm water quality plans and be implementing management practices by the end of the first waiver cycle (five years).

Water quality monitoring will be used in conjunction with management practice implementation to determine progress toward meeting waiver conditions. The cooperative monitoring program is designed to detect trends and allow the Regional Board to determine whether water quality is improving. Monitoring program milestones include establishment of a cooperative monitoring entity, development of a Quality Assurance Project Plan,

monitoring program enrollment levels and establishing adequate funding, and submittal of monitoring reports according to the time schedule established in the waiver order.

Staff will review progress on an on-going basis. At the end of the first waiver cycle, the program will be evaluated and revised as necessary as part of the waiver review process.

1.5 *Environmental Setting*

The project encompasses all of the irrigated land in the Central Coast Region, including the Salinas River, Pajaro River, Santa Maria River, and Santa Ynez River Basins, and smaller coastal streams. Agricultural production is a major land use in the Central Coast Region, with more the 600,000 acres of irrigated agriculture and more than 100 different crops produced.

The Central Coast Regional Water Quality Control Board has jurisdiction over a 300-mile long by 40-mile wide section of the State's central coast. Its geographic area encompasses all of Santa Cruz, San Benito, Monterey, San Luis Obispo, and Santa Barbara Counties as well as the southern one-third of Santa Clara County, and small portions of San Mateo, Kern, and Ventura Counties. Included in the region are urban areas such as the Monterey Peninsula and the Santa Barbara coastal plain, prime agricultural lands in the Pajaro, Salinas, and Santa Maria, Valleys, National Forest lands, extremely wet areas like the Santa Cruz mountains, and arid areas like the Carrizo Plain. Some physical characteristics of the Region are listed below:

CENTRAL COAST REGION¹¹

<u>CHARACTERISTICS</u>	<u>NUMBER</u>	<u>MEASURE</u>
Area of Region	11,274 square miles	
Streams	Unknown	2,360 miles
Lakes	99	25,040 acres
Ground Water Basins	53	3,559 square miles
Mainland Coast -	378 miles	
Wetlands and Estuaries	59	8,387 acres
Areas of Special Biological Significance	9	235,825 acres

Topographic features are dominated by a rugged seacoast and three parallel ranges of the Southern Coast Mountains. Ridges and peaks of these mountains, the Diablo, Gabilan, and Santa Lucia Ranges, reach to 5,800 feet. Between these ranges are the broad valleys of the San Benito and Salinas Rivers. These Southern Coast Ranges abut the west to east trending

¹ Water Quality Assessment for Water Years 1986 and 1987, Water Quality Monitoring Report No. 88-1 Water Quality, Division of Water Quality, State Water Resources Control Board, July, 1988.

Santa Ynez Mountains of the Transverse Ranges that parallel the southern exposed terraces of the Santa Barbara Coast.

The trend of the mountain ranges, relative to onshore air mass movement, imparts a marked climatic contrast between seacoast, exposed summits, and interior basins. Variations in terrain, climate, and vegetation account for a multitude of different landscapes. Seacliffs, sea stacks, white beaches, cypress groves, and redwood forests along the coastal strand contrast with the dry interior landscape of small sagebrush, short grass, and low chaparral.

2 Environmental Significance Checklist

This Environmental Checklist has been prepared in compliance with the requirements of CEQA relating to certified regulatory programs.

IMPACT	POTENTIALLY SIGNIFICANT IMPACT	POTENTIALLY SIGNIFICANT UNLESS MITIGATION INCORPORATION	LESS THAN SIGNIFICANT IMPACT	NO IMPACT
2.1 Aesthetics				
Would the Project:				
a) Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially degrade the existing visual character or quality of the site and its surroundings?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2.2 Agriculture Resources

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. Would the Project:

a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

IMPACT	POTENTIALLY SIGNIFICANT IMPACT	POTENTIALLY SIGNIFICANT UNLESS MITIGATION INCORPORATION	LESS THAN SIGNIFICANT IMPACT	NO IMPACT
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2.3 Air Quality

Where available, the significance criteria established by the applicable air quality management or air pollution control the District may be relied upon to make the following determinations. Would the Project:

a) Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2.4 Biological Resources

Would the Project:

a) Have a substantial adverse effect, either directly, or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

IMPACT	POTENTIALLY SIGNIFICANT IMPACT	POTENTIALLY SIGNIFICANT UNLESS MITIGATION INCORPORATION	LESS THAN SIGNIFICANT IMPACT	NO IMPACT
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2.5 Cultural Resources

Would the Project:

a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Directly or indirectly destroy a unique paleontological resource of site or unique geological feature?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2.6 Geology and Soils

Would the Project:

a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ii) Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

IMPACT	POTENTIALLY SIGNIFICANT IMPACT	POTENTIALLY SIGNIFICANT UNLESS MITIGATION INCORPORATION	LESS THAN SIGNIFICANT IMPACT	NO IMPACT
iii) Seismic-related ground failure,, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iv) Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the Project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform building Code (1994), creating substantial risks to life or property?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2.7 Hazards and Hazardous Materials

Would the Project:

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) For a Project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project result in a safety hazard for people residing or working in the Project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

IMPACT	POTENTIALLY SIGNIFICANT IMPACT	POTENTIALLY SIGNIFICANT UNLESS MITIGATION INCORPORATION	LESS THAN SIGNIFICANT IMPACT	NO IMPACT
f) For a Project within the vicinity of a private airstrip, would the Project result in a safety hazard for people residing or working in the Project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2.8 Hydrology and Water Quality

Would the Project:

a) Violate any water quality standards or waste discharge requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of preexisting nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which results in flooding on- or off-site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Create or contribute runoff water which exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

IMPACT	POTENTIALLY SIGNIFICANT IMPACT	POTENTIALLY SIGNIFICANT UNLESS MITIGATION INCORPORATION	LESS THAN SIGNIFICANT IMPACT	NO IMPACT
f) Otherwise substantially degrade water quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
j) Inundation by seiche, tsunami, or mudflow?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2.9 Land Use and Planning

Would the Project:

a) Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the Project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2.10 Mineral Resources

Would the Project:

a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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IMPACT	POTENTIALLY SIGNIFICANT IMPACT	POTENTIALLY SIGNIFICANT UNLESS MITIGATION INCORPORATION	LESS THAN SIGNIFICANT IMPACT	NO IMPACT
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2.11 Noise

Would the Project result in:

a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) A substantial permanent increase in ambient noise levels in the Project vicinity above levels existing without the Project?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) A substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) For a Project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project expose people residing or working in the Project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) For a Project within the vicinity of a private airstrip, would the Project expose people residing or working in the Project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2.12 Population and Housing

Would the Project?

a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

IMPACT	POTENTIALLY SIGNIFICANT IMPACT	POTENTIALLY SIGNIFICANT UNLESS MITIGATION INCORPORATION	LESS THAN SIGNIFICANT IMPACT	NO IMPACT
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2.13 Public Services

a) Would the Project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:

Fire protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Police protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2.14 Recreation

a) Would the Project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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b) Does the Project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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2.15 Transportation/Traffic

Would the Project:

a) Cause an increase in traffic which is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either the number of vehicle trips, the volume to capacity ratio to roads, or congestion at intersections?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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b) Exceed, either individually or cumulatively, a level of service standard established by the

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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IMPACT	POTENTIALLY SIGNIFICANT IMPACT	POTENTIALLY SIGNIFICANT UNLESS MITIGATION INCORPORATION	LESS THAN SIGNIFICANT IMPACT	NO IMPACT
county congestion/management agency for designated roads or highways?				
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Result in inadequate parking capacity?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2.16 Utilities and Service Systems

Would the Project?

a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Have sufficient water supplies available to serve the Project from existing entitlements and resources, or are new or expanded entitlements needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Result in a determination by the wastewater treatment provider which serves or may serve the Project that it has adequate capacity to serve the Project's projected demand in addition to the provider's existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

IMPACT	POTENTIALLY SIGNIFICANT IMPACT	POTENTIALLY SIGNIFICANT UNLESS MITIGATION INCORPORATION	LESS THAN SIGNIFICANT IMPACT	NO IMPACT
f) Be served by a landfill with sufficient permitted capacity to accommodate the Project's solid waste disposal needs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Comply with federal, state, and local statutes and regulations related to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2.17 Mandatory Findings of Significance

a) Does the Project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number of restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Does the Project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probably future projects)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Does the Project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3 Thresholds of Significance

For the purposes of making impact determinations, potential impacts were determined to be significant if the Proposed Project would result in changes in environmental condition that would, either directly or indirectly, cause a substantial loss of habitat, substantial conversion of prime agricultural lands, or substantial degradation of water quality or other resources.

Discussion of Environmental Impacts

The analysis of potential environmental impacts is based on possible changes in irrigation management methods and other approaches to controlling agricultural discharges taken in response to the proposed Conditional Waiver of Waste Discharge Requirements for irrigated agriculture. The proposed project will result in more widespread implementation of management practices for irrigation management, erosion control, pesticide management and nutrient management. Potential impacts to biological, agricultural and water resources are discussed below, but are generally found to be of no significance.

2.1 Aesthetics

None of the potential practices described above would alter any scenic vistas, damage scenic resources, degrade the visual character of any site, or adversely affect day or nighttime views.

2.2 Agricultural Resources

The purpose of the Conditional Waiver is to increase the use of management practices that will protect water quality. In some cases, the water quality benefits of a practice are well documented, but in other cases, the effectiveness of a given practice, especially in coastal California crops, is not known. Regional Board has in the past, and will continue, to support research into the effectiveness of various practices. However, there are currently many practices available to growers which will have a beneficial impact on water quality by reducing erosion, improving irrigation efficiency to reduce the amount of water entering state waters from agricultural lands, and reducing the total amount of fertilizer and pesticides applied to crops. The following is a list of typical practices often recommended by University of California Cooperative Extension, Resource Conservation Districts and USDA's Natural Resources Conservation Service to protect water quality by reducing erosion, reducing the amount of fertilizer or pesticides applied, or preventing such constituents from entering waterways or groundwater. Many of these practices may actually improve agricultural resources by reducing the loss of topsoil or improving soil quality, and are likely to be implemented on a more widespread basis than currently, as a result of implementation of the Conditional Waiver:

- Vegetating roads to reduce erosion (cost-benefit analysis available from UCCE; net benefit in representative case due to reduced maintenance costs)
- Planning row arrangements to reduce runoff and erosion (cost-benefit analysis available from UCCE; net benefit in representative case)
- Underground outlet to transport water to bottom of steep slope and reduce erosion (cost-benefit analysis available from UCCE; initial outlay offset by increased yield within about 3 years)
- Tailwater recovery to eliminate surface water discharges of tailwater
- Vegetating waterways (ditches, drainage swales) (cost-benefit analysis available from UCCE; net cost in first year, little cost thereafter)
- Water and sediment control basins (cost-benefit analysis available from UCCE; net cost due to installation cost plus loss of acreage)
- Cover crops to reduce erosion during the rainy season and improve soil quality
- Filter strips (vegetation planted between crops and waterways to remove sediment and other pollutants)
- Hedgerow (a “living fence” of trees and shrubs planted around a field to attract beneficial insects, reduce erosion, stabilize banks and provide wildlife with food and cover)
- Irrigation water management to control the volume, frequency, and application rate of irrigation water in order to optimize the use of water, reduce erosion and decrease pollution of surface and groundwater
- Nutrient management to supply plant nutrients in the right amounts and at the right times to optimize crop yields and minimize loss of nutrients to surface and groundwater by developing a crop nitrogen budget
- Pest management practices to reduce pesticide applications by monitoring pest populations, promoting beneficial insects and other Integrated Pest Management techniques

Conservation practices that could affect the amount of land used for producing crops include vegetating farm roads, installing vegetated filter strips along creeks and at the ends of field rows, planting cover crops, and installing sediment detention basins. The Regional Board has reviewed the potential cost of some commonly used practices that might be employed by growers. Practices vary widely in both their initial installation costs and in long-term costs associated with maintenance and reduced cropping area. In some cases practices can result in improved productivity that will offset costs associated with taking some land out of production for conservation practices. Some practices, such as improved irrigation efficiency and nutrient management, can result in cost savings over time.

The practices described above, or other potential strategies that could be pursued by growers, are unlikely to lead to a conversion of prime agricultural farmland to other uses. Although some land may be vegetated for erosion control rather than planted to crops, the overall land use is still agricultural.

Growers have a wide range of options available to minimize or eliminate water quality impacts. Based on the range of options available, growers should be able to choose an

approach appropriate to their crops and fields that will minimize cost and allow them to continue farming. The availability of federal and state government funds for environmental conservation, as well as settlement funds (e.g. USDA's Environmental Quality Incentives Program, Proposition 40 and 50 funds, and PG&E and Guadalupe settlement funds) should allow growers to offset some of their costs, if they choose an approach that requires a greater capital investment.

2.3 Air Quality

Implementation of some alternative pest management strategies could lead to a reduction in aerial drift, and therefore an improvement in air quality.

2.4 Biological Resources

The proposed Conditional Waiver is designed to improve water quality through the widespread implementation of on-farm management practices that will reduce the amount of sediment, pesticides and nutrients entering the region's waterbodies. Growers must identify practices to address sediment, nutrients, pesticides, and irrigation efficiency in their farm water quality management plans. The goal of the associated monitoring program is to assess beneficial use protection in the agricultural areas of the region. Increased regulation of agriculture through the Conditional Waiver program will reduce impacts to biological resources by reducing exposure to agricultural pollutants.

It is possible that greatly improved irrigation efficiency in some areas will result in reduced flows during the summer. However, many Central Coast streams and rivers would not flow during the summer under natural conditions, and reductions in summer flows will not affect migration and spawning of fish, which are adapted to such hydrologic regimes. Reduced withdrawals of water for irrigation uses in some locations will allow surface and groundwater flows to return to, or more closely approximate, natural flows and will either cause no impact or improve habitat by allowing it to return to a natural state. Improved irrigation efficiency will generally improve habitat conditions for migration and spawning of fish, because of the low overall water quality of irrigation return flow. It is not expected that the Conditional Waiver will result in significant loss of habitat for threatened or endangered species. Practices such as vegetated waterways, hedgerows, and riparian restoration will likely result in increased habitat for many species.

2.5 Cultural Resources

Implementation of the proposed Conditional Waiver is not likely to affect cultural resources. None of the potential practices that growers might implement are likely to change the significance of any historical or archaeological resource, destroy a unique paleontological resource or geologic feature, or disturb any human remains.

2.6 Geology and Soils

Implementation of the proposed Conditional Waiver will not affect the geology of the region and will not expose people to additional geologic hazards. Growers may plant cover crops or buffer strips to increase soil infiltration and reduce runoff, which will likely reduce soil erosion.

2.7 Hazards and Hazardous Materials

The Department of Pesticide Regulation examines hazards posed by pesticides to workers and the public during its regulatory process. Each product is evaluated for potential hazards and any conditions necessary for the safe use of the material are required on the label or in specific regulations. Some of these requirements include use of protective clothing and respirators, use of a closed system for mixing and loading, or special training requirements for workers applying the pesticide. Implementation of the Conditional Waiver should not result in any increased exposure to hazards or hazardous material and may reduce exposure as growers implement pest management techniques that reduce applications in order to minimize potential runoff.

2.8 Hydrology and Water Quality

None of the management practices implemented to reduce discharges of agricultural constituents are likely to result in changes in drainage patterns that would increase erosion or siltation, increase the rate or amount of surface runoff, increase the risk of flooding, contribute to increases in storm water runoff that would exceed the capacity of stormwater drainage systems, or increase the chance of inundation by seiche, tsunami, or mudflow. Management practices will be implemented with the aim of improving water quality by reducing the amount of nutrients and pesticides applied to and/or discharging from agricultural lands. The requirement for all agricultural operations to have a farm plan is intended to ensure that operations are aware of the potential impacts of various practices and to ensure that reducing surface water discharges does not result in increasing groundwater discharges. Growers are required to have nutrient management plans to address both surface and groundwater impacts.

If dischargers elect to implement practices such as sediment detention basins, which could potentially fail and cause downstream problems, the management practices must meet local design standards. Practices designed to slow stormwater runoff and increase filtration by maintaining vegetation may increase recharge and increase stream flow in some areas. Improved irrigation efficiency will also reduce pumping and may reduce overdraft and seawater intrusion in some areas.

2.9 Land Use and Planning

Implementation of the proposed Conditional Waiver should not result in any changes in land use or planning. See discussion of Agricultural Resources, Section 9.4.2, above.

2.10 Mineral Resources

The effect of the proposed Conditional Waiver should be limited to land currently under agricultural production, and there should be no impact to mineral resources.

2.11 Noise

The proposed Conditional Waiver should have no impact on noise in the project area.

2.12 Population and Housing

The proposed Conditional Waiver will likely result in changes in on-farm management practices. Those changes in practices would not directly or indirectly induce population growth in the area, displace existing housing, or displace people. The proposed Conditional Waiver should not have an impact on population and housing.

2.13 Public Services

The proposed Conditional Waiver will not have an impact on public services.

2.14 Recreation

There should be no increase in use of parks or recreational facilities or the need for new or expanded recreational facilities as a result of this proposed Conditional Waiver.

2.15 Transportation/Traffic

The proposed Conditional Waiver will not have an impact on transportation/traffic.

2.16 Utilities and Service Systems

The proposed Conditional Waiver will likely result in changes in on-farm management practices. No wastewater treatment requirements for runoff from agricultural lands have been established by the Regional Water Quality Control Boards. The proposed Conditional Waiver should not result in changes in wastewater treatment requirements.

The proposed Conditional Waiver does not require and should not result in the construction or expansion of new storm water drainage facilities. The most feasible practices for the control of discharges from farms are on-field practices. It is unlikely that alterations in storm drainage facilities would be an effective means of reducing runoff from agricultural areas.

The proposed Conditional Waiver should not result in significant changes in water supply. One of the potential alternative practices that could be used by growers would be the use of cover crops to increase infiltration and reduce surface runoff of water, which may contain contaminants. The use of cover crops may require additional irrigation water, but may also result in reduced evaporation from soil surfaces, resulting in no or

little net change in irrigation water needs. Improved irrigation efficiency, one of the principle means of reducing agricultural discharges, will likely result in water savings.

The proposed Conditional Waiver should not require any changes in wastewater treatment services. The potential practices that could be applied by growers should not result in any changes in the generation of solid waste and therefore should not impact landfill capacity. The potential practices that could be applied by growers should not result in any changes in the generation of solid waste and therefore should not affect compliance with federal, state, or local statutes and regulations related to solid waste.

2.17 Mandatory Findings of Significance

The Conditional Waiver is designed to reduce discharges of agricultural pollutants and improve water quality. The Conditional Waiver does not require or allow any changes in practices that could degrade the quality of the environment or have environmental effects that could cause substantial indirect or direct adverse effects on human beings.

The proposed Conditional Waiver represents the establishment of a comprehensive program to address the impacts of agricultural discharges throughout the Central Coast Region. There are no probable future changes in Regional Board programs that would lead to cumulatively significant impacts when combined with likely impacts from the proposed Conditional Waiver.

Public Participation and Agency Consultation

Interested parties, agencies and the public have been consulted throughout the development of the proposed Conditional Waiver. Regional Board staff met with, or contacted by phone or email, agricultural industry representatives, environmental groups and local entities such as county Resource Conservation Districts and Agricultural Commissioners. The Agricultural Advisory Committee, made up of agricultural and environmental representatives, met for a year to assist staff in developing the program. Staff has consulted with the Department of Pesticide Regulation, University of California Cooperative Extension, and USDA Natural Resources Conservation Service. In addition, the Board held three public workshops at locations throughout the region to hear public testimony prior to completing the draft proposed Conditional Waiver and Initial Study.

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