Future Actions List and Workplan for the August 2010 Groundwater Quality Protection Strategy for the Central Valley Region, a Roadmap

This document has been prepared to comply with direction in Resolution #R5-2010-0095 of the California Regional Water Quality Control Board, Central Valley Region (Central Valley Water Board). The following information provides the listing of future actions identified in the Groundwater Quality Protection Strategy for the Central Valley Region, a Roadmap (Roadmap) as well as task specific workplans for the high priority actions.

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Introduction

The Central Valley Water Board recognizes the critical importance of groundwater quality. With it's commitment to ongoing programs as well as coordination with other agencies and stakeholders with an interest in groundwater quality protection, the Central Valley Water Board adopted Resolution R5-2008-0181 in support of developing a Groundwater Quality Protection Strategy for the Central Valley Region through an active stakeholder process.

To develop the Groundwater Quality Protection Strategy for the Central Valley Region, a Roadmap, public workshops were held to solicit information from stakeholders on groundwater quality protection concerns. Workshops were attended by stakeholders representing a variety of interests including: food processors, water purveyors, irrigation districts, conservation districts, rural communities, agricultural interests, federal and state agencies, cities, counties, elected officials, environmental groups, non-profit organizations, and other interested parties.

At the Central Valley Water Board September 2010 meeting, Resolution 5-2010-0095 was adopted approving the August 2010 Groundwater Quality Protection Strategy for the Central Valley (Roadmap) recognizing that all high priority actions cannot be fully implemented with existing resources. The resolution directed staff to develop workplan(s) for the highest priorities, and continue to pursue new, and improve existing, partnering opportunities to leverage existing resources and avoid duplication of efforts.

Table 1 below lists the future actions (action) identified in the Roadmap. Each action identified was either underway or would be taken to improve or restore groundwater quality and was prioritized as high, medium, or low. The following sections contain workplan(s) for each of the actions identified as high priorities.

Table 1

Future Action #	Future Action	Priority		
		High	Medium	Low
6.4.1	CV-SALTS – Develop a Salt and Nutrient Management Plan	X		
6.4.2	Implement Consistent and Scientifically Sound Groundwater Monitoring Programs	X		
6.4.3	Implement Groundwater Quality Protection Programs through the Integrated Regional Water Management Plan Groups		X	
6.4.4	Broaden public participation through enhanced communication, education, and outreach	X		
6.4.5	Improve local implementation of Well Design and Destruction Programs		X	
6.4.6	Groundwater database	X		
6.5.1(a)	Alternative Dairy Waste Disposal – Dairy Manure Digester and Dairy Manure Co-Digester Facilities	X		
6.5.1(b)	Develop Individual and General Orders for Poultry, Cattle Feedlot, other types of CAFO Facilities		X	
6.5.2(a)	Implementation of Long-Term ILRP	X		
6.5.2(b)	Coordinate with CDFA to identify methods to enhance fertilizer research and education program		X	
6.5.3	Reduce site cleanup backlog		X	
6.5.4(a)	Draft Waiver once new regulations adopted based on AB 885		X	
6.5.4(b)	Update Guidelines for Waste Disposal from Land Developments	X		
6.5.4(c)	Develop methods to reduce backlog and increase facilities regulated	X		
6.5.4(d)	Actively coordinate with State Water Board on development of statewide ASR policy guidance		X	

In the following pages, a workplan that covers the time frame of June 2011 through June 2013 for each of the high priority actions identified in Table 1 is provided. For those who are interested in reviewing the Groundwater Quality Protection Strategy for the Central Valley Region, a Roadmap, which includes information on the Central Valley Water Board' s existing groundwater quality protection programs, it is available electronically at:

http://www.waterboards.ca.gov/centralvalley/water_issues/groundwater_quality/index.shtml

Or a request for a hard copy may be made to:

Pam Buford
Central Valley Water Board
1685 E Street
Fresno CA 93706
(559) 445-5576
pbuford@waterboards.ca.gov

GROUNDWATER QUALITY PROTECTION WORKPLAN(S)

For each of the actions that were prioritized as high (see Table 1), a workplan has been developed. Some of the actions involve multiple regulatory programs, while other actions are more singularly focused. This difference has resulted in some variations in the workplan(s) presentation; however, staff has attempted to develop and present them in a consistent manner for ease of review. For each high priority action we have included the goal, objective(s), and action(s) identified in the Roadmap along with task descriptions and a task summary table that includes a time schedule to identify tasks that will be completed through June 2013. Where information was available, tasks or resources that will be required beyond June 2013 are also included.

The Roadmap is considered an evolving document and as actions are completed or new information is gathered, revisions will be made. This is also true for the following workplans, which span two fiscal years. To allow for adaptive management based on new information, or expanded collaboration opportunities, workplans will be assessed in June 2012 to determine if any adjustments are needed.

Action #6.4.1 CV-SALTS Develop a Salt and Nitrate Management Plan
Project Sponsor: Pamela Creedon
Project Manager: Jeanne Chilcott, jchilcott@waterboards.ca.gov

Stakeholder Group Sponsor: CV-SALTS Executive Management Committee
Stakeholder Group Project Manager: Daniel Cozad, dcozad@cvsalinity.org

Goals: Through the CV SALTS initiative, a collaborative stakeholder effort, develop a basin plan amendment to implement a comprehensive Salt and Nitrate Management Plan for surface and ground water within the entire Central Valley Region.

Objective: Ensure that ground and surface water within the Central Valley Region are protected from impacts of salt and nitrates such that all applicable beneficial uses are attained.

Action: Amendment to the Basin Plans covering the Sacramento River, San Joaquin River, and Tulare Lake basins. The amendment will address review of beneficial use designations and establishment of new water quality objectives for salts and nitrates as appropriate. The amendment will also establish a comprehensive implementation plan to protect water quality, achieve compliance where those water quality objectives are not met, and identify a monitoring and surveillance program to insure objectives of the amendment are met.

Time schedule: CV-SALTS Executive Committee is currently re-evaluating the issues and needs that the Stakeholders and the Central Valley Water Board believe are most critical to complete in this basin planning process. The results of this will be used to update and revise the following workplan, schedule, and budget by October 2011.

Resource needs: As noted in the goal of this action the CV-SALTS initiative is a broad effort to develop a comprehensive Salt and Nitrate Management Plan for the entire Central Valley Region. Over $1 million dollars has been put towards the planning effort and $5 million has been allocated for the next three years from the Clean-up and Abatement Account (CAA). Resource needs are estimated by stakeholders based on CV-SALTS May 2009 workplan to be approximately $20 to $40 million for the development and implementation of the Salt and Nitrate Management Plan. These figures will be updated as part of the revised workplan in October 2011.

Workplan Task(s) Narrative Description:

The following tasks have been developed by CV-SALTS committees in an attempt to capture the efforts needed to produce an implementable Salinity and Nitrate Management Plan for the Central Valley and complete a basin plan amendment and to support the plan.

Some of the sub-tasks under Task 1 are underway during the current re-evaluation of the needs and issues. Based on the outcome of the re-evaluation Tasks 2, 3 and 4 will be updated by October 2011.

Task 1 Program Development

1.1 Scoping and revising the CV-SALTS Strategy
- 1.1.1 Update schedule, critical path, milestone monitoring, and program implementation
- 1.1.2 Budget/Funding Plan and Financing Program
- 1.1.3 Continue to increase membership

Deliverables: Semi-annual Status Reports **Date:** June/Dec
Final Updated Strategy (including policy & framework) July 2011

1.2 Initial Efforts and Pilot Studies
- 1.2.1 Westside Salt Assessment (Bureau of Reclamation)

Deliverable: Report **Date:** May 2011

- 1.2.2 Assess Validity of Salt and Nitrate Sources Pilot Studies:
  - Salt and Nitrate Sources Pilot Implementation Study Report Feb2010 http://intpln.com/Docs/Final%20SNSPIS%20Report%20Submittal_02.22.10%20ESOnlys.pdf
  - A Mass Balance Approach to Evaluate Salinity Sources in the Turlock Sub-Basin, California June 2010
  - Westside Salt Assessment (Bureau of Reclamation) May 2011

Deliverable: Report identifying adjustments to make studies useful for the rest of the Central Valley Region **Date:** April 2011

- 1.2.3 Develop interim recommended review process for identifying Best Practical Treatment or Control (BPTC) for salinity and nitrate

Deliverable: BPTC Screening Tool **Date:** June 2011

1.3 Consolidate and Prioritize Issues to be Addressed
- 1.3.1 Solicit Stakeholder and Regional Water Board issues and needs
- 1.3.2 Categorize into areas of policy and technical work
  - 1.3.2.1 Integrate prior work and develop work needed to address consolidated issues and needs
  - 1.3.2.2 Update CV-Salts workplan based on prioritized issues and needs

Deliverable: Final 5-Year Workplan **Date:** October 2011

1.4 Technical Project Management Team

1.4.1 Under direction of the CV-SALTS Executive Committee will manage task 2 ensuring technical tasks needed to complete effort accomplished on time and on budget

Deliverable: Contract awarded **Date:** July 2011

Task 2 Technical Studies, Research, and Monitoring to Support Prioritized Needs and Issues

2.1 Scope and initiate contracts to support development of Salt and Nitrate Management Plan and associated basin plan amendment through technical studies, research, and monitoring. This task will be further defined and deliverables identified following the completion of Final 5-Year workplan in October 2011.

Task 3 Salinity and Nitrate Management Plan for Central Valley

3.1 Develop Salinity and Nitrate Management Plan for Central Valley

3.1.1 Identify actions needed to implement the “regulatory and non-regulatory” salt management strategies.

3.1.2 Utilizing information gathered in Tasks 1, 2, and 3.1.1, develop components of salinity and nitrate management plan to insure sustainable economic and environmental health of the Central Valley and provide the sound technical basis for a basin plan amendment.

Deliverable: None during this workplan time frame **Date:** June 2014

Task 4 Basin Plan Amendments to the Sacramento and San Joaquin Rivers, and Tulare Lake Basin Plans

4.1 Basin Plan Amendments Supported by Salinity and Nitrate Management Plan

4.1.1 Develop amendment language and supporting documents

4.1.2 Coordinate with Regional Board for review and approval with the State Water Board, Office of Administrative Law, and USEPA.

Deliverable: None during this workplan time frame **Date:** June 2015

Table #6.4.1: Task Summary - CV-SALTS Develop a Salt and Nitrate Management Plan					
Time Frame: June 2011 through June 2013					
Task #	**Task Description**	**Task Deliverable**	**Coordination Commitment**	**Contract Dollars**	**Completion Date**
1	Program Development 1.1 Scoping & revising the CV-SALTS Strategy	-Updated Final Strategy based on re-evaluation of schedule, critical path, and milestone monitoring and program of implementation -Semi-annual Status Reports	~$400,000 as of Dec 2010 in stakeholder support from CVSC	~$500K in CAA support Utilized	Began in 2007 and will continue through at least 2014
	1.2 Initial efforts and Pilots	- Salt and Nitrate Sources Pilot Implementation Study - Westside Salt Assessment - Report on Validity of Pilot Studies - BPTC Screening Tool	~$450,000 for studies funded by CVSC stakeholders & ~$350,000 BOR		-Feb 2010 -May 2011 -Apr 2011 -June 2011
	1.3 Consolidate and Prioritize Issues to be addressed	- Final 5-Year Workplan	~1850 hours for July 2009 to January 2011 and $50,000 in stakeholder in kind support	$100K CAA Support utilized	Oct 2011
	1.4 Technical Project Mgt Team	-Contract Award	-1	$ tbd CAA	July 2011
2	Technical studies, research, and monitoring to support needs and issues	Scope and initiate contracts to support the basin plan issues above with technical studies and data as needed, This task will be better defined by Oct 2011	-1	CAA funding ~$4.3 Mil will need other funds	June 2014*
3	Salinity and Nitrate Management Plan For Central Valley	-Develop implementation plan -Combine with components in Tasks 1 and 2 to develop overall plan to provide sustainable economic and environmental health	-1	-1	June 2014*
4	Basin Plan Amendment	- Develop amendment language and supporting documents. Coordinate for review and approval with State Water Board, OAL, and EPA -Implementation Plan	-1	-1	June 2015*

*****Potential for time extension -1: Being developed as part of revised workplan

Action #6.4.2 Implement Consistent and Scientifically Sound Groundwater Quality Monitoring Program

Project Sponsor: Clay Rodgers
Project Manager: Clay Rodgers, crodgers@waterboards.ca.gov

Goals: Implement groundwater quality monitoring programs throughout the Central Valley that will yield water quality data that are based on sound science and technically and scientifically defensible techniques and approaches.

Objective: To bring together experts in the field of groundwater quality monitoring to advise and comment on technical issues. The workgroup will be an advisory panel to assist the Central Valley Water Board in evaluating how and why groundwater quality monitoring is conducted, to maximize the collection of reliable data, ensure the efficient use of resources, and provide for the proper evaluation of data.

Action Items:

- Through an expert advisory committee, issue white papers on groundwater quality monitoring issues that provide guidance to staff and promote consistency throughout the Central Valley Region on technical issues related to groundwater quality monitoring.
- These white papers will improve staffs technical knowledge that influences groundwater quality monitoring requirements for WDRs and keep the Central Valley Water Board staff current on methods of evaluation of groundwater quality monitoring data.
- Serve as the Technical Advisory Committee for groundwater monitoring to the Irrigated Lands Regulatory Program.

Workplan Task(s) Narrative Description:

Task 1 Groundwater Monitoring Advisory Workgroup (GMAW)

1.1 Assemble an advisory group that is composed of groundwater experts from the State Water Resources Control Board, Regional Water Quality Control Board, U.S. Geologic Survey, academia, and private consultants.

Deliverable: Workgroup List **Date**: Completed

Task 2 Identify Technical Issues to be Addressed by the GMAW

2.1 Determine the specific technical issues related to groundwater monitoring that would be addressed through recommendations of the workgroup and the development of white papers.

Deliverable: List of Technical Issues **Date**: Completed

Task 3 Identify Central Valley Water Board staff for Internal Review

3.1 Assemble a group of Central Valley Water Board staff for internal review of technical issue white papers.

Deliverable: List of Central Valley Water Board staff **Date**: Completed

Task 4 Irrigated Lands Regulatory Program Groundwater Technical Advisory Committee

4.1 Identify groundwater quality questions that should be answered by groundwater monitoring conducted to comply with waste discharge requirements adopted for coalition groups.

4.2 Identify sources and types of data that need to be collected to answer the groundwater quality questions. The groundwater quality questions will be proposed under Task 4.1, vetted by the Irrigated Lands Regulatory Program Stakeholder Advisory Work Group, and agreed to by Central Valley Water Board management.

Task 5 Technical Issues White Paper #1, Establishing and Applying Site-Specific Background Concentrations

5.1 Draft an outline for Technical Issues White Paper #1 and present it to the GMAW for comments and recommendations.

Deliverable: Outline and GMAW meeting **Date**: Completed

5.2 Complete a draft Technical Issues White Paper #1 and present it to the GMAW for comments and recommendations.

Deliverable: Draft document / meeting **Date**: Completed

5.3 Internal review by Central Valley Water Board staff. Revise document and submit to GMAW for comments.

Deliverable: Distribute draft **Date**: June 2011

5.4 Final Technical Issues White Paper #1.

Deliverable: Submit final document **Date**: August 2011

Task 6 Technical Issues White Paper #2, Site Characterization and the Conceptual Model Approach

6.1 Draft outline for Technical Issues White Paper #2 and present it to the GMAW for comments and recommendations.

Deliverable: Outline and GMAW meeting **Date**: July 2011

6.2 Complete a draft Technical Issues White Paper #2 and present it to the GMAW for comments and recommendations.

Deliverable: Draft document / meeting **Date**: October 2011

6.3 Internal review by Central Valley Water Board staff. Revise document and submit to GMAW for comments.

Deliverable: Distribute draft **Date**: November 2011

6.4 Final Technical Issues White Paper #2

Deliverable: Submit final document **Date**: January 2012

Task 7 Technical Issues Paper #3, Groundwater Monitoring Well Network Design

7.1 Draft outline for Technical Issues White Paper #3 and present it to the GMAW for comments and recommendations.

Deliverable: Outline and GMAW meeting **Date**: March 2012

7.2 Complete a draft Technical Issues White Paper #3 and present it to the GMAW for comments and recommendations.

Deliverable: Draft document / meeting **Date**: April 2012

7.3 Internal review by Central Valley Water Board staff. Revise document and submit to GMAW for comments.

Deliverable: Distribute draft **Date**: May 2012

7.4 Final Technical Issues White Paper #3

Deliverable: Submit final document **Date**: July 2012

Task 8 Technical Issues White Paper #4, Additional Groundwater Monitoring Techniques, Methods, and Tools

8.1 Draft outline for Technical Issues White Paper #4 and present it to the GMAW for comments and recommendations.

Deliverable: Outline and GMAW meeting **Date**: September 2012

8.2 Complete a draft Technical Issues White Paper #4 and present it to the GMAW for comments and recommendations.

Deliverable: Draft document / meeting **Date**: December 2012

8.3 Internal review by Central Valley Water Board staff. Revise document and submit to GMAW for comments.

Deliverable: Distribute draft **Date**: April 2013

8.4 Final Technical Issues White Paper #4

Deliverable: Submit final document **Date**: June 2013

Table #6.4.2: Task Summary Implement Consistent and Scientifically Sound Groundwater Quality Monitoring Program						
Time Frame: June 2011 through June 2013						
Task #	**Task Description**	**Task Deliverable**	**PYs***	**Coordination Commitment**	**Contract Dollars**	**Completion Date**
1	Assemble Groundwater Monitoring Advisory Workgroup (GMAW)	Completed				Complete
2	Identify technical issues that may be addressed by the GMAW	Completed through prior GMAW meetings and detailed in white paper outlines				Complete
3	Identify staff who would provide technical review of future white papers	List of staff				Complete
4	Irrigated Lands Regulatory Program Groundwater Technical Advisory Committee	See task 1f of ILRP Program, page 24				
5	Technical Issues White Paper #1: Establishing and Applying Site-Specific Background Concentrations	Final document	0.1	40%		Aug 2011
6	Technical Issues White Paper #2: Site Characterization and the Conceptual Model Approach	Final document	0.1	40%		Jan 2012
7	Technical Issue White Paper #3: Groundwater Monitoring Well Network Design	Final document	0.1	40%		July 2012
8	Technical Issues White Paper #4: Additional Groundwater Monitoring Techniques, Methods, and Tools	Final document	0.1	40%		June 2013

*PY = Person Year based on 1,750 hours annually

Action #6.4.4 Broaden Public Participation Through Enhanced Communication, Education, and Outreach

Project Sponsor: Richard Loncarovich
Project Manager: Linda Bracamonte, lbracamonte@waterboards.ca.gov

Goals: Ensure all interested parties have the opportunity to participate in the Central Valley Water Board's decision making processes.

Objective:

- Broaden public participation throughout the Central Valley Region.
- Assure that our regulatory process is transparent and the public has access to information about the process.
- Leverage our public outreach efforts with other government entities and partner with business and other interest groups to increase public participation and awareness.

Action Items:

1. Increase number of Central Valley Water Board staff trained on how to facilitate public meetings to increase the meetings effectiveness and efficiency. This training is available in-house through the State Water Board Training Academy.

2. Increase the transparency of our regulatory process by holding more focused public meetings on groundwater providing information about our groundwater programs compliance and enforcement process. Increase public participation by utilizing video conferencing, translation services, and providing better noticing of items. We will continue to work with the State Water Board and other state agencies to expand our video capabilities so that we could offer remote site Board Meeting participation from our Fresno and Redding Offices.

3. Create a "Public Advisory Group" that will consist of representatives from various businesses, tribes, local governments, federal agencies, non-profit organizations, etc, to help identify ways to enhance our outreach efforts.

4. Improve our website functionality so that it is easier for the public to navigate.

5. Evaluate the possibility of utilizing hearing panels on certain water quality issues to provide more opportunities for public participation. Hearing panels would hold meetings throughout the Region rather than just in Sacramento.

6. Develop educational materials that can be distributed via the internet to help educate the public, dischargers, and stakeholders.

Workplan Task(s) Narrative Description:

Task 1 Provide meeting facilitation training

1.1 Work with the State Water Board Training Academy to schedule training.

Deliverable: Submit request to State Water Board **Date**: July 2011

Task 2 Increase Access to Public Meetings

2.1 Repair our video conferencing equipment

Deliverable: Working Video Conferencing System **Date**: August 2011

2.2 Purchase and install remote Board Meeting Participation equipment

Deliverable: Remote Board meeting capabilities **Date**: August 2012

2.3 Hold additional public meetings and increase noticing

Deliverable: More public meetings **Date**: Ongoing

Task 3 Create Public Advisory Group

3.1 Solicit participation from interested parties

Deliverable: List of members **Date**: October 2011

3.2 Develop group charter

Deliverable: Group Charter **Date**: November 2011

3.3 Identify and work on specific efforts to improve participation

Deliverable: List of specific work projects **Date**: Ongoing

Task 4 Improve Website Navigation

4.1 Request funds to hire Website Design expert

Deliverable: Submit request to EMG **Date**: July 2011

4.2 Write contract with design expert

Deliverable: Executed Contract **Date**: March 2012

4.3 Design and develop new Website

Deliverable: New Website **Date**: October 2012

Task 5 Evaluate Hearing Panels

5.1 Work with Board to evaluate using hearing panels as opportunities arise

Deliverable: Discussions with Board **Date**: Ongoing

Task 6 Develop Education Material

6.1 Develop program specific outreach and educational material

Deliverable: Flyers, brochures, etc. **Date**: Ongoing

Table #6.4.4: Task Summary - Broaden Public Participation Through Enhanced Communication, Education, and Outreach						
Time Frame: June 2011 through June 2013						
Task #	**Task Description**	**Task Deliverable**	**PYs**	**Coordination Commitment**	**Contract Dollars**	**Completion Date**
1	Meeting Facilitation Training	Provide meeting facilitation training for staff through the Training Academy.	0.50	State Water Board 50%		2012
2	Increase Access to Public Meetings	2.1 Working Video Conferencing 2.2 Remote Board Meeting Capabilities 2.3 Increase Public Meetings	0.50		$300k	Aug 2011 Aug 2012 ongoing
3	Create Public Advisory Group	Develop a charter and solicit participation from interested parties	0.25			Nov 2011
4	Improve Website	Improve the ease of use of our website.	0.50			Oct 2012
5	Evaluate hearing panels	Work with the Board to evaluate the use of hearing panels.	0.25			ongoing
6	Develop Education Material	Develop Power Point presentations and other training material that can be used by schools, stakeholders, etc.	0.50	20%		ongoing

*PY = Person Year based on 1,750 hours annually

Action #6.4.6 Groundwater Database
Project Sponsor: Richard Loncarovich and Clay Rodgers
Project Manager: Calvin McGee, cmcgee@waterboards.ca.gov

Goals: To develop a groundwater quality database that facilitates the compilation and assessment of data and allows for seamless integration with information from different Central Valley Water Board programs and other agencies.

Objective:

- Enhancing existing State Water Board databases, the Central Valley Water Board will leverage database development already completed.
- Requiring electronic data submittal from dischargers should result in reducing errors in data reporting, improving data analysis capability, reducing staff time through electronic data transfer, and improving accessibility of data by the public and other agencies.

Action Items:

1. Through coordination with the State Water Board, work to expand the use of or the input of data to existing databases such as CIWQS, GeoTracker, and GeoTracker GAMA to develop a groundwater component. Central Valley Water Board executive management will identify staff to form a workgroup that will begin database expansion discussions with the State Water Board.

2. New and existing orders submitted should be drafted requiring future electronic data submittals for groundwater monitoring data required through MRPs, WDRs, Cleanup and Abatement Orders, and any other monitoring requirements in a format to be determined by the Water Board.

Time schedule: Development or enhancement of existing databases is an extensive and long range project which will occur in phases. The first phase, which is covered by this workplan for the period of June 2011 through June 2013, will be a needs assessment and database enhancement identification. Future workplans for Fiscal Years 13/14, and 14/15 will be developed to meet Feasibility Study Reports (FSR) requirements and identify funding for pilot projects of Geotracker GAMA or a like database utilizing a subset of Central Valley Water Board data.

A workplan specific time schedule for the period of June 2011 through June 2013 is incorporated into the Task Narrative below.

Resource needs
Resource needs to achieve this groundwater database goal will require a combination of staff hours, in-kind services, and contract dollars. The following workplan represents the initial phase for the time period June 2011 through June 2012 that will need approximately 1,300 staff hours and approximately 650 hours of in-kind services from the State Water Board through coordination meetings. Once the needs assessment

has been completed in June 2013, we will be in a better position to estimate resource needs for database enhancement and management.

Workplan Task(s) Narrative Description:

Task 1 Groundwater Database Program Staff Workgroup

1.2 Initial meeting with State Water Board to determine participation in this as a state-wide process. We will need to assess current capabilities, develop a schedule for possible enhancements, feasibility of changes to Geotracker GAMA, Geotracker, CIWQS, and any other groundwater focused statewide database that might exist.

Deliverable: Obtain approval from State Water Board Executive Management to initiate task 2 **Date:** May 2012

1.3 Assemble a Region 5 Program Staff Groundwater Database Workgroup

Deliverable: Workgroup List **Date**: September 2011

1.4 Conduct Survey of Region 5 Programs data acquisition needs and storage capabilities

Deliverable: Survey Summary **Date**: December 2011

Task 2 Identify Data Management Needs

2.1 Program Staff Workgroup Identify Data Management Needs:
Concerns
Storage Needs
Query/Evaluation Needs
Links or interface requirements with other systems
Define the scope of the project

2.1.1 Broaden Identification Data Management Needs through meetings with:
Internal meetings with Region 5 staff
State Water Board
Other Regional Boards

2.1.2 Meeting with Sr/Sups to identify needs specific to management issues

Deliverable: Issue Paper Identified Needs (Data Criteria Elements) to provide justification of the business need and preliminary identification of the data needs to be used in the development of an FSR and various control agencies approval **Date**: August 2012

2.2 Groundwater Monitoring Advisory Workgroup (GMAW) Consultation: Program Staff Workgroup in coordination with State Water Board will provide GMAW with deliverables from task 2 for review and recommendations.

Deliverable: GMAW Recommendations **Date**: February 2011

Table #6.4.6: Task Summary - Groundwater Database						
Time Frame: June 2011 through June 2013						
Task #	**Task Description**	**Task Deliverable**	**PYs**	**Coordination Commitment**	**Contract Dollars**	**Completion Date**
1	Groundwater Database Program Staff Workgroup	1.1 Obtain Approval from State Water Board Executive Management	0.25			March 2012
		1.2 List of Workgroup				Sept 2011
		1.3 Survey Summary				Dec 2011
2	Identify Data Management Needs	2.1 Issue Paper Identified Needs	0.25			June 2012
		2.2 GMAW Recommendations				Feb 2012

*PY = Person Year based on 1,750 hours annually

Action #6.5.1(a) Alternative Dairy Waste Disposal Project - Dairy Manure Digester and Dairy Manure Co-Digester

Project Sponsor: Clay Rodgers
Project Manager: Rob Busby, rbusby@waterboards.ca.gov

Goal: Find alternative wastewater disposal methods and processes that protect groundwater quality while providing multiple environmental media benefits.

Objective:

- Develop a programmatic EIR for Digester Facilities at dairies that use manure waste as a renewable energy source that will generate power and ensure protection of groundwater quality.
- Develop and implement a General Order for digester facilities throughout the Central Valley that is based on the EIR.

Action Items:

- Streamlined permitting of digesters on dairies has been completed with the certification of the Program EIR (Resolution R5-2010-0116) and adoption of the General Order (Order R5-2010-0130) at the Central Valley Water Board's December 2010 meeting.
- A General Order for centralized digester facilities offsite of dairies, which relies on the Program EIR is scheduled to be presented to the Central Valley Water Board for consideration at the June 2011 meeting.

Central Valley Water Board action on this item at the June 2011 meeting will finalize these action items. When the Groundwater Quality Protection Strategy for the Central Valley Region, a Roadmap is updated it will be noted that the Central Valley Water Board will continue efforts to promote digester facilities.

Action #6.5.2(a) Implementation of the Long-Term Irrigated Lands Regulatory Program (ILRP)
Project Sponsor: Ken Landau
Project Manager: Joe Karkoski, jkarkoski@waterboards.ca.gov

Goals: Implement an irrigated lands program that establishes a groundwater protection program for wastes associated with agricultural practices.

Objective: The Central Valley Water Board will implement the long-term ILRP through the development, issuance, and enforcement of a series of geographically or commodity based general waste discharge requirements and conditional waivers of waste discharge requirements.

Action Items:

- Fiscal year 2011/12 and 2012/2013 activities will focus on the development and issuance of 8-10 general waste discharge requirements and conditional waivers of waste discharge requirements that will cover large geographic areas or specific commodities and a general WDR for individuals that are not in Coalition groups.
- Fiscal year 2011/12 and 2012/13 activities will also include outreach and enrolling growers under the new Orders; and working with Coalitions and growers to ensure compliance with the new requirements
- Fiscal year 2012/13 and beyond activities will be dependent on the Orders issued by the Board.
    - Activities likely to include:
        - managing the information submitted to meet requirements;
        - overseeing and reviewing monitoring and assessment efforts;
        - determining adequacy and effectiveness of regional management plans; individual nutrient management plans; and management practices that are implemented;
        - taking compliance/enforcement action against individuals and Coalitions, when needed; updating/modifying the Orders;
        - coordinating internally and with various local and State agencies.

Resource needs: Based on the evaluation in the long-term program staff report, longer-term staff resource needs are expected to be between 20-50 PY. The current program utilizes approximately 15 full time staff. Increasing resources to 30 staff would result in a discharger to staff ratio of approximately 1,150 to 1. This level of staffing will be sufficient given the use of Coalition groups (assuming 99% grower participation in Coalitions, leaving approximately 350 growers managed individually) and the use of electronic data submittals (i.e., limited or no submittal of paper documents).

Approximately $100,000 per year in contract funds will be needed for student assistance in information management and $100,000 per year will be needed to conduct special studies and analysis associated with enforcement activities. A new

information management system for tracking discharger information will cost approximately $150,000 to establish and $100,000 annually to maintain.

Funds to offset grower costs for implementation of management practices would facilitate adoption of practices. Those estimated costs are in the hundreds of millions of dollars.

Workplan Task(s) Narrative Description:

Task 1a -1e Adoption of 8-10 Orders

1a-1e Adoption of 8-10 new Orders (waste discharge requirements and waivers of waste discharge requirements). To adopt those Orders within 15-22 months, 1-2 Orders will need to be adopted every quarter. The schedule assumes that minimal supplemental CEQA analysis will be required.

Deliverable: 8-10 Orders over 15-22 months **Date:** Every 3-4 Months

Task 1f Advisory Groups

1f Staff will solicit participation in two advisory groups to provide discussion forums for technical and policy issues associated with the new Orders. A subcommittee of the Groundwater Monitoring Advisory Workgroup will be formed to provide objective scientific and technical advice on proposed groundwater quality monitoring requirements for irrigated agriculture. The Stakeholder Advisory Workgroup will be asked to provide input on policy issues associated with the Orders. A limited number of meetings of each group (2-3) will be held in the summer/early fall 2011.

Deliverable: Agendas/Meeting Notes **Date:** Per TBD meeting schedule of groups.

Task 2 Implementation of Adopted Orders

2.1 Oversee the implementation of the Orders to ensure the requirements and conditions are being fulfilled.

2.1.1 Priority focus after the initial adoption of the Orders will be on working with the Coalitions on the preparation and review of any required assessments (e.g., of ground water quality); monitoring plans; and management plans.

Deliverable: Updates provided in EO Reports **Date:** Based on Board Calendar

Task 3 Long-Term ILRP Outreach

3.1 Outreach to inform growers currently enrolled in the program and growers that need to be enrolled in the program of new requirements.
3.1.1 Coordinate with agriculture community to support outreach

3.2 Prepare informational mailings, conduct outreach meetings, and prepare necessary web based material

Deliverables: Outreach materials, summary of meetings attended
Date: Continuous Updates in EO Reports

Task 4 Grower Enrollment

4.1 Implement grower enrollment (target 90% enrollment of 33-35,000 growers)
4.1.1 Web-based tool development to facilitate grower enrollment, pending approval and available funding

Deliverable: Web-based Enrollment Tool **Date**: June 2012

4.1.2 Outreach to identify growers requiring enrollment assistance

Deliverable: Summary of methods used to identify growers/ assistance provided
Date: Continuous Updates in EO Reports

Task 5 Compliance/ Enforcement

5.1 Identify non-participating growers who do not respond to outreach efforts.
5.1.1 Progressive compliance/enforcement actions (e.g., informal letters/postcards; 13260/13267 Orders; administrative liability complaints) will be used to ensure those growers receive the proper regulatory coverage.
5.1.2 Water quality related compliance efforts will generally be conducted in response to complaints.

Deliverable: Enforcement Reports included EO Reports
Date: Continuous Updates in EO Reports

Table #6.5.2(a): Task Summary - Implementation of Long-term ILRP						
Time Frame: June 2011 through June 2013						
Task #	**Task Description**	**Task Deliverable**	**PYs**	**Coordination Commitment**	**Contract Dollars**	**Completion Date**
1a	Adopt 1-2 Geographic/Commodity based Orders	WDRs or waivers for Board Consideration/ Adoption	1.50	Coordinate with Coalitions and interested parties.		Oct 2011
1b	Adopt 1-2 Geographic/Commodity based Orders	WDRs or waivers for Board Consideration/ Adoption	1.25	Coordinate with Coalitions and interested parties.		Jan 2012
1c	Adopt 1-2 Geographic/Commodity based Orders	WDRs or waivers for Board Consideration/ Adoption	0.75	Coordinate with Coalitions and interested parties.		June 2012
1d	Adopt 1-2 Geographic/Commodity based Orders	WDRs or waivers for Board Consideration/ Adoption	0.75	Coordinate with Coalitions and interested parties.		Oct 2012
1.e	Adopt remaining Orders	WDRs or waivers for Board Consideration/ Adoption	0.75	Coordinate with Coalitions and interested parties		April 2013
1f	Advisory Groups	Technical and policy input from advisory groups	0.30	Coordinate with Coalitions, interested parties and GMAW.	$20,000	October 2011
2	Oversee Implementation of Adopted Orders	Approval of/comments on plans/reports submitted pursuant to Orders.	12.0	Coordinate with Coalitions and interested parties.	$200,000	Continuous / Consistent with schedules in Orders
3	Grower Outreach to explain new program requirements	Outreach meetings; mailings; web posting.	1.0	Coordinate with Coalitions and other ag representatives	$100,000	Continuous
4	Grower Enrollment	Up to 9,000 new growers enrolled in ILRP out of approximately 10,000 required to enroll.	2.5	Coordinate with Coalitions and other ag representatives	$300,000	June 2013
5	Compliance / Enforcement	Inspection reports; enforcement follow-up to inspection reports; staff review of submitted reports; compliance actions for 3rd parties.	6.0	Coordinate with other regulatory agencies (DPR, DFG), Coalitions and other ag representatives.	$100,000	Continuous

*PY = Person Year based on 1,750 hours annually

Action #6.5.4(b) Update Guidelines for Waste Disposal from Land Developments
Project Sponsor: Rick Moss
Project Manager: Greg Cash, gcash@waterboards.ca.gov
Rob Busby, rbusby@waterboards.ca.gov

Update to Action #6.5.4(b).
At the time of approval of the Roadmap, September 2010, the State Water Board's efforts related to Assembly Bill 885 (AB 885) had stalled. The priority given to action 6.5.4(b) was partly based on resources and the need to continue to work on an update to the waste disposal guidelines.

AB 885, creating Section 13291 et. seq. of the California Water Code, legislated statewide minimum 'regulations or standards' (regulations) for onsite sewage treatment systems (including septic systems). AB 885 requires the State Water Board to adopt new regulations for discharges from onsite wastewater treatment systems.

The approach for all actions in the Roadmap is to leverage resources and coordinate efforts with other agencies or organizations. The State Water Board has recently formed teams to satisfy the requirements of AB 885 and plans to adopt a Policy for Water Quality Control for Onsite Wastewater Treatment Systems by March 2012. The Central Valley Water Board's EMG has directed staff to work cooperatively with the State Water Board in their efforts. The following goals, objective, action, and workplan tasks are based on cooperation within the State Water Board's activities, which incorporates actions 6.5.4(a) and (b).

Goals: Assist State Water Board to ensure on-time completion of the Water Quality Control Policy for Onsite Wastewater Treatment Systems (OWTS) and amend the Region 5 Basin Plans to reflect both the Policy and Region 5 specific guidelines, as appropriate

Objective: Present the Basin Plan Amendment to the Central Valley Water Board for consideration during fiscal year 2013-2014.

Action: Participate in the State Water Board Policy Writing Team to formulate the specific language of the Policy. Prepare a Basin Plan Amendment to reflect the new Policy and any other Region 5 specific guidelines.

Time schedule of the following Tasks*:

Task 1: Development of State Water Board Policy
Task 2: Evaluation of Adopted State Water Board Policy
Task 3: Collaboration with Technical Advisory Panel for OWTS Criteria
Task 4: Initiation of Public Process
Task 5: Draft Basin Plan Amendment
Task 6: Peer/Public Review and Adoption of Basin Plan Amendment/Waiver
Task 7: Approval of Basin Plan Amendment/Waiver

**The overall objective is to adopt a Basin Plan Amendment and Waiver. Portions of Tasks 2 and 3 might not be necessary if the State Water Board Policy is sufficiently detailed and restrictive to meet all of the Region 5 requirements. It should also be noted that not all tasks are sequential but may occur simultaneously. For example, the public participation process will be on-going until adoption of the Basin Plan Amendment.*

The Workplan-specific time schedule for the period of June 2011 through September 2013 is incorporated into the Workplan Task Narrative below.

Workplan Task(s) Narrative Description:

Task 1 Development of State Water Board Policy

1.1 Participate in development of State Water Board Policy as part of Policy Writing Team. Assist in coordinating Region 5 review of policy objectives, language, and specific OWTS criteria to ensure concerns and issues specific to Region 5 are included and/or addressed in the Policy, as appropriate.

1.2 Attend State Water Board OWTS meetings and Central Valley public workshops for coordination purposes.

1.3 Provide input and support to other teams, as needed.

Deliverable: Final State Water Board Policy for Onsite Wastewater Treatment Systems
Date: March 2012

Task 2 Evaluation of Adopted State Water Board Policy

2.1 Review State Water Board Policy and determine whether language and specific criteria in the State Water Board Policy meet Region 5 requirements for protection of surface water and groundwater.

2.2 Make determination whether clarifications or more stringent criteria are necessary.

2.3 Review existing Basin Plan language and determine initial scope of revisions.

2.4 Develop draft language.

Deliverable: Final Problem Definition Statement and Scope of Revisions
Date: June 2012

Task 3 Collaboration with Technical Advisory Panel for OWTS Criteria, as appropriate

3.1 Form technical advisory panel, both internal and external (local agencies, counties, cities, health directors, etc).

3.2 Organize/hold series of internal and external workshops.

3.3 Collect input from technical advisory panel and determine whether language in the State Water Board Policy needs to be clarified and/or augmented.

3.4 Work with technical advisory panel to resolve potential issues regarding Draft OWTS language for Region 5 (for Basin Plan Amendment).

Deliverable: Draft OWTS Criteria and Language to augment the State Water Board Policy and Implementation Strategy (to be included in the Basin Plan Amendment)

Date: December 2012

Task 4 Initiation of Public Process

4.1 CEQA Scoping meeting, as appropriate

4.2 Begin administrative record

4.3 Determine type and frequency of public process/activities and develop plan for implementation of public participation activities

*Process and activities will be carried out for remainder of the tasks

Deliverable: Plan for public process/activities; CEQA Scoping Meeting

Date: December 2012

Task 5 Draft Basin Plan Amendment

5.1 Draft staff report supporting the Draft OWTS Criteria and language to augment the State Water Board Policy, including an analysis of environmental factors (environmental checklist) and economic considerations.

5.2 Draft Implementation Strategy, including the State Water Board Policy waiver to implement criteria.

Deliverable: Draft Basin Plan Amendment **Date:** March 2013

Task 6 Peer/Public Review and Adoption of Basin Plan Amendment and Waiver

6.1 Peer Review of criteria and staff report.

6.2 Respond to peer review comments.

6.3 Revise criteria and staff report as appropriate in response to peer review.

6.4 Release criteria, staff report and waiver for 45-day public review.

6.5 Prepare Basin Plan Amendment and Waiver for Central Valley Water Board consideration.

6.6 Central Valley Water Board Hearing/Adoption.

Deliverable: Adopted Basin Plan Amendment **Date:** June 2013

Task 7 Approval of Basin Plan Amendment and Waiver

7.1 Prepare and submit record for State Water Board approval.

7.2 Assist State Water Board staff in responding to any comments and with any questions at the State Water Board hearing; assist State Water Board in Office of Administrative Law process.

7.3 File Notice of Decision

Deliverable: Adopted Basin Plan Amendment **Date:** September 2013

Table #6.5.4(b): Task Summary - Update Guidelines for Waste Disposal from Land						
Time Frame: June 2011 through September 2013						
Task #	**Task Description**	**Task Deliverable**	**PYs**	**Coordination Commitment**	**Contract Dollars**	**Completion Date**
1	Development of State Board Policy	Final State Board Policy for Onsite Wastewater Treatment Systems				March 2012
2	Evaluation of Adopted State Board Policy	Final Problem Definition Statement and Scope of Revisions				June 2012
3	Collaboration with Technical Advisory Panel for OWTS Criteria	Draft OWTS Criteria and Language, Implementation Strategy				Dec 2012
4	Initiation of Public Process	Plan for Public Process/Activities, CEQA Scoping Meeting				Dec 2012
5	Draft Basin Plan Amendment	Draft Basin Plan Amendment				March 2013
6	Review & Adoption of Basin Plan Amendment and Waiver	Adopted Basin Plan Amendment				June 2013
7	Approval of Basin Plan Amendment and Waiver	Adopted Basin Plan Amendment, Notice of Decision from State Water Board and Office of Administrative Law				Sept 2013

*PY = Person Year based on 1,750 hours annually

Action #6.5.4(c) Develop methods to reduce backlog and increase facilities regulated

Project Sponsor: Rick Moss
Project Manager: Lonnie Wass, lwass@waterboards.ca.gov

Goals: Reduce backlog of existing WDRs to be updated and new WDRs to be developed.

Objective(s):

- Reduce number of pending applications for new or expanding facilities,
- Decrease the number of unregulated facilities;
- Update WDRs for existing facilities where the orders are old or ineffective.

Action Items:

- Identify applications for WDRs or old and outdated WDRs that are eligible for coverage under existing general WDRs or waivers;
- Develop process improvement tools including standardized checklists, process flow charts, a decision matrix, and permit templates to assist and improve the efficiency of WDR writers in the review of applications and development of waste discharge requirements;
- Review the existing body of State-wide or regional general WDRs and waivers and determine if they can be expanded to enroll more dischargers;
- Identify other similar industrial facilities or operations that new general WDRs, waivers, or requirements of a similar type and format could be developed, ranking these by potential threat to water quality and begin expedited order development for them.
- Prioritization of backlogged individual facility waste discharge requirements.

Time schedule: This workplan will be for the period of July 2011 through June 2013. In June 2012 there will be an assessment of progress and effectiveness of the individual measures to determine the need for modifications for fiscal year 2012/2013.

The time-schedule for tasks contained in this workplan is identified within the task narrative below.

Resource needs: The complexity of developing individual WDRs has increased tremendously. The population growth in Valley communities, growing concern with protecting the water supplies of these communities who often rely solely on groundwater for their water supply, industrial growth often away from communities with the capacity to accept the industrial wastewater into their systems, and competing demand on groundwater resources for supply, has made WDRs more complex through the years. In addition, the number of applications for new or revised WDRs has resulted in a backlog of applications for which WDRs need to be developed.

The Central Valley Region WDR program has a total of 12 personnel years budgeted to work on permitting in the program. It is recognized that additional resources will not be

available to assist in the reduction of the backlog. As a result, this work plan is intended to address the backlog to the greatest extent possible with the current resources through the development of tools designed to process applications and develop WDRs more efficiently.

This issue is not unique to the Central Valley Region. To address this issue on a statewide basis a new unit within the State Water Board Division of Water Quality has been formed. In addition, an Executive Management Steering Committee consisting of State Water Board and Regional Water Board Executive Officers has been convened to establish the work plan of this new unit for the coming years. The Central Valley Regional Water Board effort to address the WDR backlog will be coordinated with, and will capitalize on, the same effort being conducted at the State Water Board through the new WDR Unit and the Executive Management Steering Committee.

Workplan Task(s) Narrative Description: The State Water Board or the Regional Water Boards may prescribe general waste discharge requirements for a category of dischargers if all the following criteria apply to the discharges in that category:

a. The discharges are produced by the same or similar operations.
b. The discharges involve the same or similar types of waste.
c. The discharges require the same or similar treatment standards.
d. The discharges are more appropriately regulated under general requirements than individual requirements.

The State Water Board or the Central Valley Water Board have adopted the following general waste discharge requirements for the land application of waste that are currently available for use in the Central Valley Region:

1. Waste Discharge Requirements General Order for Dairies with Manure Anaerobic Digester or Co-Digester Facilities, Order R5-2010-0130, Adopted on 10 December 2010,

2. Waste Discharge Requirements, General Order for In-Situ Groundwater Remediation at Sites with Volatile Organic Compounds, Nitrogen Compounds, Perchlorate, Pesticides, Semi-Volatile Compounds, Hexavalent Chromium and/or Petroleum Hydrocarbons, Order R5-2008-0149, Adopted on 11 September 2008,

3. Biosolids - General Waste Discharge Requirements for the Discharge of Biosolids to Land for Use As a Soil Amendment in Agricultural, Silvicultural, Horticultural, and Land Reclamation Activities, Order 2004-0012-DWQ, Adopted by the State Water Resources Control Board on 22 July 2004,

4. General Waste Discharge Requirements For Discharges to Land With a Low Threat to Water Quality, Water Quality Order 2003-0003-DWQ, Adopted on 30 April 2003,

5. Petroleum Cleanup - Land Discharge of Groundwater or Surface Water from Cleanup of Petroleum Pollution, Order R5-2003-0044,

6. General Waste Discharge Requirements for Discharges to Land by Small Domestic Wastewater Treatment Systems, Order 97-10-DWQ, Adopted by the State Water Resources Control Board on 18 November 1997.

The State Water Board or regional water boards may waive waste discharge requirements, or even the applications for waste discharge requirements, for a specific discharge or type of discharge. Waivers must be consistent with the applicable state or regional water quality control plans, must be properly noticed, must be found to be in the public interest, and must be reviewed every five years. Current general waivers available for use in the Central Valley Region are:

1. Conditional Waiver of Waste Discharge Requirements for Disaster-Related Wastes During a State of Emergency, Order R5-2008-0093, adopted Small Food Processors and Small Wineries, Order R5-2009-0097, adopted by the Central Valley Water Board on 12 June 2008,

2. Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands within the Central Valley, (currently under review for continuance),

3. Small Food Processors and Small Wineries, Order R5-2009-0097, adopted by the Central Valley Water Board on 8 October 2009,

4. Specific Types of Discharge within the Central Valley Region, Order R5-2008-0182 (Replaces R5-2003-0008), Adopted on 4 December 2008, including
    a. **Air Conditioner, Cooling, And Elevated Temperature Waters**
    b. **Drilling Muds/Boring Wastes**
    c. **Disposal of Dredge Material to Land**
    d. **Inert Solid Waste Disposal**
    e. **Test Pumping Of Fresh Water Wells**
    f. **Swimming Pool Discharges**
    g. **Construction - Dewatering Discharges**
    h. **Hydrostatic Testing**
    i. **Agricultural Commodity Wastes**
    j. **Disposal of Residual Waste to Land as a Soil Amendment**
    k. **Water Recycling For Construction Projects And Road Dust Control**
    l. **Projects Requiring Water Quality Certification**
    m. **Small, Short-Term Sand and Gravel Operations**

In order to provide for efficiencies in permitting, developing new general WDRs, developing additional waivers of waste discharge requirements, or expanding the breath of the existing general WDRs would allow for a larger number of like industries or discharge types to be permitted with reduced staff resources. Process improvement tools are needed to assist permit writers in the development of WDRs. If it is not feasible or efficient to develop a general WDR or waiver for a type of discharge, then efficiencies

can be achieved by developing individual orders in categories. Much of the orders would be the same. However, differences in individual orders would be incorporated to reflect the uniqueness of the discharge or the site.

Central Valley Water Board staff will review the pending Reports of Waste Discharge, as well as older orders and sort them by type of facility. Staff will identify types of facilities that could be considered for inclusion in general orders, waivers, or an expedited process of individual orders because of the like-nature of discharges. These would be in addition to the General Orders being developed by the State Water Board. Staff will complete initial studies of the discharge types. It will then prepare reports for executive management to consider for preparation of a general order, waiver, or individual orders.

If a General Order seems to be the most efficient process given the discharge type, Central Valley Water Board staff will draft a conceptual order and if appropriate will present it to the state-wide WDR program (Non-15) roundtable. If, after consultation with the Roundtable, the State Water Board WDR unit, and the Executive Management Steering Committee, it is determined there is a state-wide need for the order, then the order and CEQA review will be drafted for state-wide consideration by the State Water Board. If the order is of interest only to the Central Valley Region, then staff will draft that order for consideration by the Central Valley Water Board.

Work on a General Order for Aquifer Storage and Recovery (ASR) has already begun. Sacramento staff has been working with a small stakeholder group to develop of a general order for adoption by the State Water Board. An Issue Paper was circulated to members of the Management Coordination Committee in March 2011. Based on feedback from that group and the Executive Management Group of the Central Valley Water Board, staff has prepared a framework for the general order, which is being developed by the stakeholder group. If after consultation between the State Water Board and the Regions there is not any interest in a State-wide order, the ASR General Order may be considered for adoption as a Central Valley Water Board general order.

Concurrent with the work described above, staff will develop process improvement tools to assist permit writers and improve efficiency. Tools will be developed such as standardized checklists for reviewing applications and drafting of WDRs; process flow charts; a decision matrix; and permit (WDR) templates.

Because there are more applications for new or revised WDRs than can be individually written in the planning period of this workplan, staff will prioritize which waste discharge requirements to work on. Factors that must be considered include completeness of applications, threat to water quality, number of like-discharges needing WDRs, and whether a general order or waiver is planned for the type of facility in the foreseeable future.

Task 1 Review Body of Applications and Old Orders

1.1 Identify staff from all three offices and a lead staff to conduct review

Deliverable: Staff assignments **Date:** July 2011

1.2 Sort applications and orders into categorized groups of like industries or similar waste discharges

Deliverable: Summary of Categorized Groups **Date:** August 2011

1.2.1 Further categorize applications and orders into:

- Like industries or discharges with Statewide applicability
- Like industries or discharges with Region 5 only applicability

Deliverable: Summary of Review Findings for Executive Management Consideration
Date: September 2011

Task 2 Prioritize WDRs for Development

2.1 Develop a prioritization matrix

Deliverable: Matrix for Executive Management Consideration
Date: August 2011

2.2 Prioritize types of facilities for the development of general orders and priority list of facilities for individual WDRs
2.2.1 General Orders
2.2.2 Individual Order

Deliverable: Priority list for Executive Management Consideration
Date: September 2011

Task 3 Develop Process Improvement Tools

3.1 Identify staff from the three offices to develop tools

Deliverable: Staff assignments **Date:** July 2011

3.2 Draft tools
   3.2.1 WDR application completeness checklist
   3.2.2 WDR processing checklist
   3.2.3 Process flow chart
   3.2.4 Decision matrix
   3.2.5 WDR permit template

Deliverable: checklists, charts, matrix, and template for Executive Management Consideration

Date: September 2011

Task 4 Coordination with State Water Board WDR II Unit

4.1 As State Water Board WDR II unit identifies WDR categories they are focusing on, the Central Valley Water Board will provide liaisons for coordination

4.2 Central Valley Water Board will present applications and old order review findings (task 1 deliverable) to the State Water Board WDR II unit to avoid any duplication

4.3 State Water Board WDR II unit will identify any WDR categories from Central Valley Water Board's task 1 deliverable that have state-wide applicability

4.4 Through coordination with the State and Central Valley Water Boards, identify General Order, waivers, or like-order type that is specific to Region 5 for development

Deliverable: Quarterly reporting to Executive Management. The Central Valley Water Board staff will report to its executive management in the region; State Water Board or Regional Water Board staff will provide quarterly reports to the combined State and Regional Water Boards executive management steering committee.

Task 5 General WDRs, Waiver, or "individual WDRs of a similar type for Development

5.1 Identify staff lead for order development of high priority general orders

Deliverable: Staffing assignment **Date:** October 2011

5.2 Complete CEQA Initial Studies

Deliverable: Status meeting with Program Manager **Date:** December 2011

5.3 Identify issues and perform anti-degradation analysis of identified discharge

Deliverable: Issues memo and initial study presented to managers of all the programs and executive management

Date: January 2012

5.4 Develop Draft Orders
- 5.4.1 Identify Findings
- 5.4.2 Determine Effluent Limitations
- 5.4.3 Identify any Provisions, Time Schedules, and Monitoring Requirements
- 5.4.4 Define recording and reporting requirements
- 5.4.5 Identify any Pretreatment Requirements (if applicable)

Deliverable: Draft Order(s) **Date:** March 2012

5.5 Identify annual contract needs for California Environmental Quality Act (CEQA) review to support General Order development

Deliverable: Executed contract for CEQA, if necessary **Date:** May 2012

5.6 Develop CEQA documentation for Draft General Order

Deliverable: Negative Declaration or EIR **Date:** August 2012 (if Neg Dec) or January 2013 (if EIR)

5.7 Presentation of tentative Orders for Central Valley Water Board Approval
- 5.7.1 Required Public Notification
- 5.7.2 Required Discharger Notification
- 5.7.3 Preparation of Agenda Materials

Deliverable: General Order for Board Consideration **Date:** September 2012 (if Neg Dec) or March 2013 (If EIR)

Table #6.5.4(c): Task Summary - Develop methods to reduce backlog and increase facilities regulated						
Time Frame: June 2011 through June 2013						
Task #	**Task Description**	**Task Deliverable**	**PYs**	**Coordination Commitment+**	**Contract Dollars**	**Completion Date**
1	Review Applications & Old Orders	1.1 Staff Assignments	0		$	Jul 2011
		1.2 Summary of Categorized industries or similar waste discharges	0.15	0.1		Aug 2011
		1.2.1 Summary of Review Findings	0.1	0.1		Sept 2011
2	Prioritize WDRs for Development	2.1 Prioritization Matrix	0.1			Aug 2011
		2.2 Priority Lists	0.15			Sept 2011
3	Develop Process Improvement Tools	3.1 Staff Assignments	0			July 2011
		3.2 Checklist for Application Completeness review, Checklist for WDR Processing, Process Flow Chart, Decision Matrix, and WDR Template	0.25	0.1		Sept 2011
4	Coordination with State Water Board WDR II Unit	4.0 Quarterly Reporting to Executive Management	0.25	0.25		Quarterly through June 2013
5	General Order or “Like”-order type Development	5.1 Staff Assignment	0			Oct 2011
		5.2 Status meeting Program Manager	0.2			Dec 2011
		5.3 Issues memo and Initial Study Presented to Program Manager and Exec. Management	0.4	0.2		Jan 2012
		5.4 Draft Orders	0.6	0.2		Mar 2012
		5.5 Executed contract for CEQA, if needed	0.4	0.1		Aug 2012
		5.6 Neg Dec or EIR	0.2	01		Aug 2012 to Jan 2013
		5.7 General Orders for Board Consideration	0.4	0.1		Sept 2012 to Mar2013

*PY = Person Year based on 1,750 hours annually

+Recognizes the need for coordination with the State Water Board, particularly its WDR II unit

Acronyms and Abbreviations

ASR	Aquifer Storage and Recovery
Basin Plan	Water Quality Control Plan
BLM	United States Bureau of Land Management
BMP	Best Management Practice
BOR	United States Bureau of Reclamation
BPTC	Best Practical Treatment or Control
CAA	Cleanup and Abatement Account
CAFO	Confined Animal Feeding Operation
Cal/EPA	California Environmental Protection Agency
CCR	California Code of Regulations
CDFA	California Department of Food & Agriculture
CGC	California Government Code
CDQAP	California Dairy Quality Assurance Program
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CHSC	California Health and Safety Code
CIWQS	California Integrated Water Quality System
CV-SALTS	Central Valley Salinity Alternatives for Long-Term Sustainability
CVSC	Central Valley Salinity Coalition
CWC	California Water Code
DFG	California Department of Fish and Game
DOC	California Department of Conservation
DoD	Department of Defense
DoE	Department of Energy
DOGGR	California Division of Oil, Gas, and Geothermal Resources
DPH	California Department of Public Health (formerly Department of Health Services)
DPR	California Department of Pesticide Regulations
DTSC	California Department of Toxic Substances Control
DWR	California Department of Water Resources
EIR	Environmental Impact Report
EMG	Central Valley Water Board Executive Management Group
FREP	Fertilizer Research and Education Program
Forest Service	United States Department of Agriculture Forest Service
FSR	Feasibility Study Report
GAMA	Groundwater Ambient Monitoring and Assessment Program
GMAW	Groundwater Monitoring Advisory Workgroup
ILRP	Irrigated Lands Regulatory Program
IRWM	Integrated Regional Water Management
MCL	Maximum Contaminant Level
MOA	Memorandum of Agreement
MOU	Memorandum of Understanding
MRP	Monitoring and Reporting Program

Neg Dec	Negative Declaration
NMP	Nutrient Management Plan
NOI	Notice of Intent
NRCS	Natural Resource Conservation Service
OAL	Office of Administrative Law
OEHHA	Office of Environmental Health Hazard Assessment
OPP	Office of Public Participation
OWTS	On-Site Wastewater Treatment System
PHG	Public Health Goal
PRC	Public Resources Code
RCRA	Resource Conservation and Recovery Act
Region 5	Central Valley Water Board
Roadmap	Groundwater Quality Protection Strategy for the Central Valley Region
ROWD	Report of Waste Discharge
RWMG	Regional Water Management Groups
State Water Board	State Water Resources Control Board
TDS	Total Dissolved Solids
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground Storage Tank
WBCC	Water Board Cleanup Council
WDR	Waste Discharge Requirements
WMU	Waste Management Units