

APRIL 2010

SACRAMENTO VALLEY
WATER QUALITY COALITION

Water Quality Management Plan Progress Report

prepared by

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Management Plan Progress Report

The purpose of this document is to provide an update on the status of the Sacramento valley Water Quality Coalition's (Coalition) Water Quality Management Plan (the Management Plan¹) and the Coalition's progress toward completion of this plan.

Reporting for the Management Plan is intended to provide information regarding achievement of the Management Plan performance goals. These Progress Reports will document the results of source identification evaluations, evaluations needed to determine the effectiveness of the management practice implementation, and whether additional or different management practices need to be implemented. These evaluations will be conducted and reported annually, in coordination with the Coalition's Annual Monitoring Report. Data reports for monitoring conducted for the Management Plan are submitted on the same quarterly schedule and in the same formats as required by the Monitoring and Reporting Program (MRP) for regular Coalition monitoring.

This first Management Plan Progress Report was originally scheduled to be submitted in coordination with the Annual Monitoring Report (AMR) in December 2009. The schedule for the AMR was modified by agreement of the Coalition and the Regional Water Quality Control Board Irrigated Lands Regulatory Program (ILRP) staff to be delivered in March 2010, and the schedule for this coordinated Progress Report was also modified. This initial Progress Report provides summaries of progress toward completion of specific Management Plan elements, updates to the list of required Management Plan elements, and recommendations for continuation or modification of the Management Plan. This Progress Report also summarizes the results of initial source identification evaluations and results of selected Management Plan monitoring for the previous year, provides documentation of outreach efforts, and a summary of completed baseline management practice inventories in priority drainages. Future Progress Reports will also document goals established for additional management practice implementation and assess progress toward the implementation goals set in previous years.

Management Plan Progress Reports will also include the results of additional pesticide application reviews, any necessary evaluations of analytical methods, and outcomes of other source evaluations, if these have not been reported in Source Evaluation Reports. They will also include documentation of initial outreach meetings, documentation of any ground level reconnaissance conducted, and recommendations for the Management Plan monitoring.

The primary activities conducted in 2009 to implement the Coalition's Management Plan were focused on addressing registered pesticides and toxicity exceedances.

Implementation completed for registered pesticides included review and evaluation of pesticide application data, identification of potential sources, and determination of likely agricultural sources. Implementation completed to address toxicity exceedances included review and evaluation of pesticide application data, evaluation of monitoring results to identify potential causes of toxicity, and determination of likely agricultural sources of

¹ SVWQC 2009. Water Quality Management Plan. Prepared by Larry Walker Associates for the Sacramento Water Quality Coalition (SVWQC). Sacramento, California. January 2009.

identified causes of toxicity. These evaluations are documented in the Source Evaluation Reports submitted for each water body and management plan element² in March 2010. For registered pesticides and identified causes of toxicity, surveys of Coalition members operating on high priority parcels were conducted to determine the degree of implementation of relevant management practices. These survey results will be used to establish goals for additional management practice implementation needed to address exceedances of Basin Plan water quality objectives and *ILRP* trigger limits.

MANAGEMENT PLAN PROGRESS

Status of Management Plan tasks

Management Plan elements with tasks to be completed in 2009 are listed in Table 1. This table provides the water body and analyte or monitoring category of concern, and a summary of the major Management Plan task activity.

The status and outcomes of specific Management Plan tasks scheduled for completion in 2009 are documented in Table 2. For each Management Plan category and implementation element, the table describes the specific management plan task, scheduled completion date, and the results and outcomes.

Results of Management Plan monitoring

The results of monitoring for all management plan analytes through September 2009 have been reported previously in the Coalition's 2009 AMR. Additionally, exceedances for all management plan sampling conducted from September through December 2009 have been reported in Exceedance Reports as required by the *ILRP* MRP. In some cases, results were also discussed in Source Evaluation Reports submitted to the Water Board in March 2010.

The 2009 monitoring year was a "Core" monitoring year for most sites, and most management plan monitoring for core parameters (DO, pH, E. coli, conductivity) was coordinated with scheduled Core monitoring. Management Plan sampling for non-Core parameters (pesticides and toxicity) was also coordinated with scheduled monitoring or conducted independently as needed for the specific locations and parameters. The results of Management Plan sampling performed in addition to scheduled Core or Assessment monitoring are summarized in Table 3.

Coon Creek Pathogen Indicator Sampling

Sampling to identify a possible upstream source of E. coli was conducted in Coon Creek (Placer-Nevada-South Sutter-North Sacramento subwatershed). The focus of the sampling was to determine whether one of two potential sources was a source of the occasionally elevated E. coli in samples at the Coon Creek at Brewer Road sampling site. The sampling consisted of the scheduled Core sampling for E. coli at the CCBRW site and at an additional sampling site located upstream at the DLX Ranch on Coon Creek

² A Management Plan element is the specific individual combination of the water body and analyte or monitoring category requiring management, e.g., diazinon in Gilsizer Slough, or invertebrate toxicity in Coon Hollow Creek.

(CCDLX). The CCDLX site was located above the Coon Creek Trap and Skeet Range and below the Coon Creek Duck Club and Rice Ranch (**Figure 1**). The Coon Creek Trap and Skeet Club property has recreational vehicle trailers near the creek bank that may be a source of *E. coli*. The Duck Club property straddles the creek and includes acreage managed for waterfowl habitat and hunting which may increase *E. coli* inputs to the creek.

Based on the sampling results for January – June 2009, the Duck Club property appears to be a source of elevated *E. coli* numbers. Samples collected at CCDLX below the Duck Club are consistently elevated to numbers that are above or near the Trigger Limit of 235 MPN/100mL (**Figure 2**). The elevated concentrations appear to be moderated in the distance between CCDLX and CCBRW and concentrations of *E. coli* were lower at the downstream CCBRW site in 5 of 6 samples. Only one CCBRW sample exceeded the Trigger Limit. These results also indicate that the Trap and Skeet Club is not a consistent source of elevated *E. coli*, although it is possible that it may have been responsible for the exceedance observed at CCBRW in February 2009.

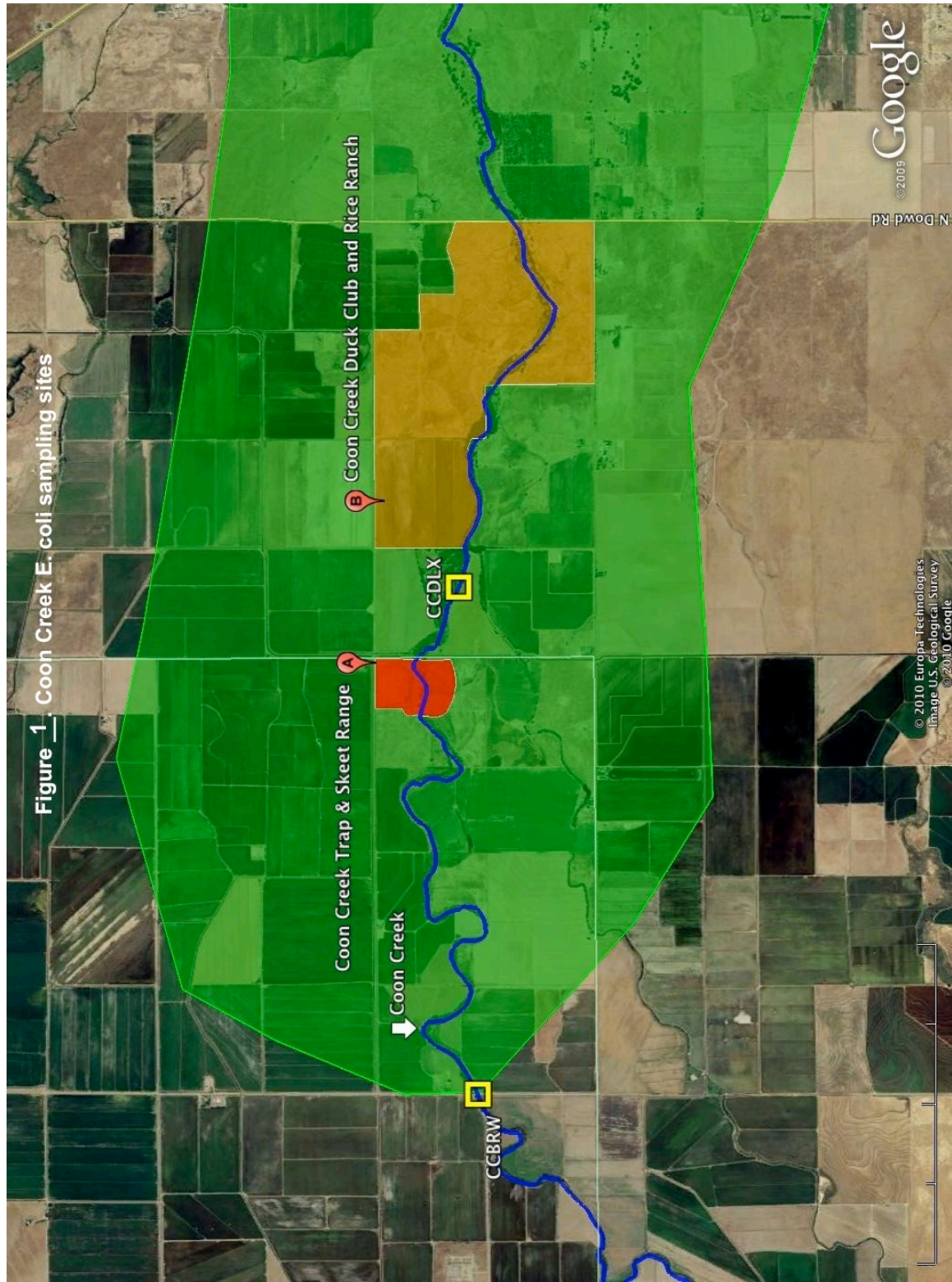
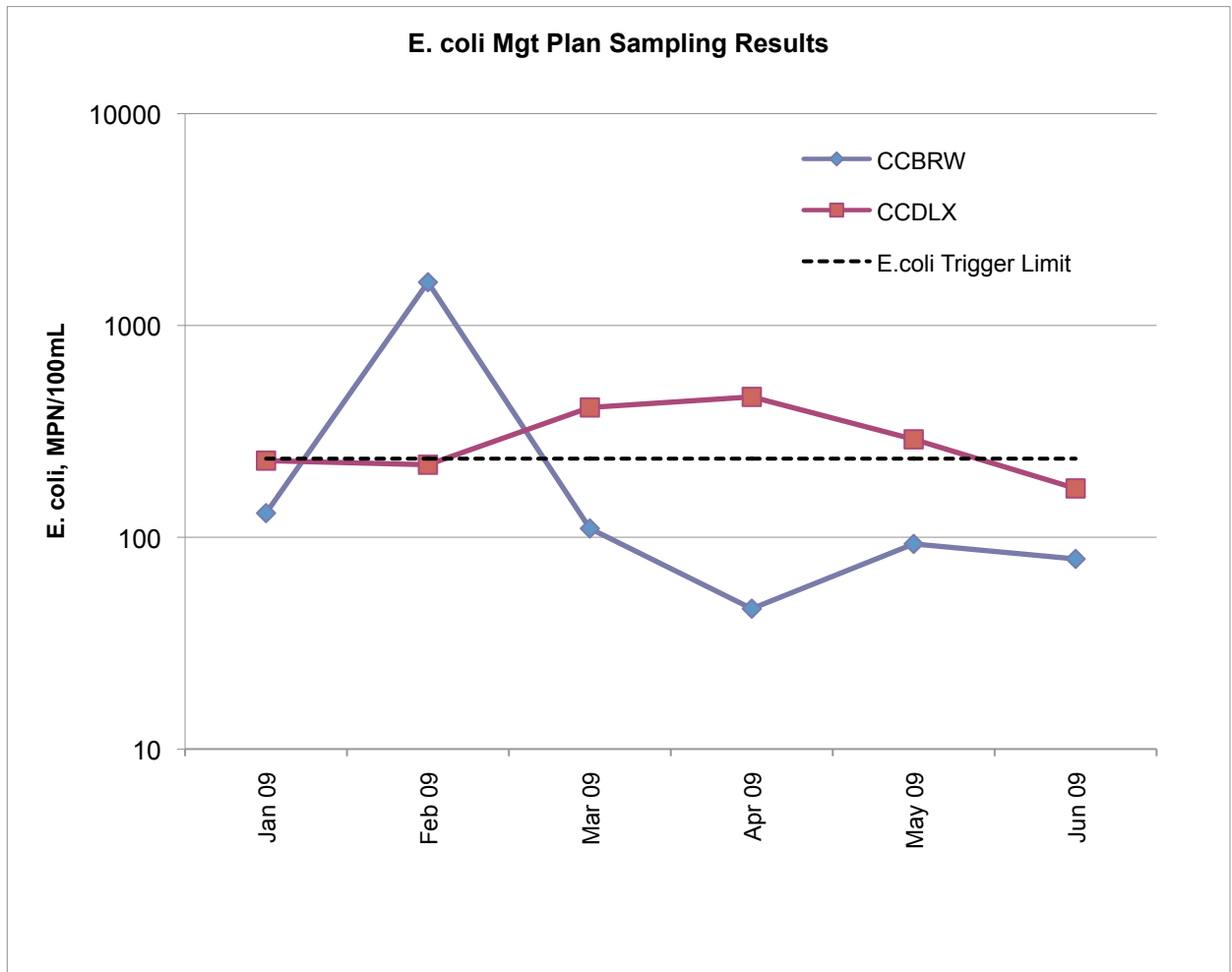


Figure 2. Coon Creek *E. coli* Management Plan Sampling Results for 2009



Legacy pesticide sediment analyses

Legacy organochlorine pesticides (e.g., DDT, dieldrin, endrin, etc.) are pesticides that have not been registered for use in California for many years, but that have chemical characteristics that allow them to persist in the environment long after their application. Sediment samples were collected from 29 locations on 7 waterbodies in 6 drainages to evaluate whether there was evidence of “hot spots” or trends that indicate that additional focus is needed to manage for control legacy organochlorine pesticides (e.g., DDT, DDE, DDD, dieldrin, endrin, etc.).

A total of 13 different compounds were detected in the 29 samples collected. DDT and its breakdown products (DDD and DDE) were the most commonly detected compounds and accounted for approximately 75% of the detected results. The discussions of spatial trends and patterns focus primarily on DDE and DDD because these were the most consistently detected compounds and allowed the best spatial characterization. Dicofol, which was detected in about 15% of the samples, is currently registered for use in California and is not a legacy organochlorine pesticide. Aldrin, dieldrin, nonachlor, and chlordane were each detected in three or fewer samples. Endosulfan, endrin, HCH, heptachlor, methoxychlor, mirex, and perthane were not detected in any samples.

The preliminary evaluations of the sampling results for individual drainages and water bodies are summarized below. Results are illustrated and data are provided in Appendix A (Legacy OC Pesticides in Sediment Sampling Results).

Sycamore Slough (Rough and Ready Pumping Plant, RARPP)

- DDE was <11 ng/g dry weight at all sites
- DDE was relatively elevated (~11ng/g) at the Lateral Three site (LTTHR) and Lateral Seven site (LTSVN) compared to other sites in the drainage, but not compared to other drainages.
- The channels and drains in Sycamore Slough drainage are very interconnected and spatial trends are not obviously tied to flow direction.
- No additional spatial focus for management is indicated.

Willow Slough Bypass (WLSPL)

- DDT, DDD, and DDE were below detection in Willow Slough (WLSNO) and <6 ng/g in Dry Slough (WLSSO) west of the bypass.
- DDE was relatively elevated in the Willow Slough at County Road 29 (WLSTN) north of Willow Slough Bypass, but was still below 20 ng/g. There is a “crop duster” airport facility near the WLSTN sampling site that may have been a historical source.
- DDE concentrations were intermediate in the bypass at Pole Line Road (WLSPL). This location is the primary sampling site and is downstream from the other sites.
- The Willow Slough arm north of the bypass may often be hydrologically isolated from the bypass and Willow Slough west of the bypass because it may only be connected when pumps are running at the confluence of these channels.

Grand Island (GIDLR)

- DDE and DDD were elevated in the “west channel” of Grand Island drain (68 ng/g and 35 ng/g) compared to other channels. (Note that none of these channels appear to have official names on available maps.)
- Samples could not be collected in the “east channel”, but results for GIDLR indicate that the east channel is not an elevated source.
- Results suggest that legacy OC pesticides may be somewhat elevated in the “west channel” drainage.

Gilsizer Slough (GILSL)

- DDT, DDD, and DDE were notably lower at the GILSL location (<7 ng/g), when compared to upstream sites (13 – 36 ng/g) nearer to Yuba City.
- No other spatial trend was apparent and the results did not indicate that management would benefit from additional spatial focus.

Lurline Creek (LRLNC)

- The channels and drains in the lower Lurline Creek drainage are very interconnected and spatial trends are not obviously tied to flow direction.
- Sediment OC concentrations were low at all sites (<5 ng/g) compared to other drainages.
- No spatial trends were apparent and the results did not indicate that management would benefit from additional spatial focus.

North Canyon Creek, Coloma drainage (NRTCN)

- DDD and DDE were <27 ng/g at all sites.
- Concentrations were slightly elevated at the downstream location (NRTCN) relative to the upstream sites (NCAUD and NRLSN).
- No spatial trends were apparent and the results did not indicate that management would benefit from additional spatial focus.

Coon Hollow Creek, Coloma drainage (COONH)

- DDD and DDE were highly elevated at the upstream location (CNHFU) compared to the locations downstream (COONH and CNHFB) and compared to other drainages. This location has been used
- Concentrations of DDD and DDE decreased from upstream to downstream.

The spatial pattern of concentrations in Coon Hollow Creek is not consistent with a diffuse upstream agricultural source of legacy OCs in eroded soils. An agricultural source would result in a fairly consistent concentration in the creek sediments with no strong gradient. The observed pattern indicates a localized elevated source near the upstream location. The El Dorado County Department of Transportation has sometimes stockpiled soils from ditch cleaning along North Canyon Road adjacent to Coon Hollow Creek at CNHFU. Others may also have added soil to the stockpiles. Runoff from these piles can flow directly into the creek if erosion control measures

are absent (as was observed on at least one occasion). The DOT and landowner have installed erosion control measures to mitigate the erosion potential.

Source Evaluations

Draft Source Evaluation Reports (SER) for seven pesticide and nine toxicity Management Plan elements were initially submitted in 2009. Revised SERs responding to Water Board *ILRP* staff comments were completed and submitted in March 2010.

The purpose of the SERs is to determine whether agriculture is a potential source of exceedances and to prioritize potential agricultural sources for outreach and management practice implementation. Additionally, the purpose of the SERs for toxicity includes identifying causes of toxicity and to evaluating potential agricultural and non-agricultural contributions to toxicity observed in Coalition Irrigated Lands Regulatory Program (ILRP) monitoring. The SERs document the following drainage-specific information: reported use of the specific pesticides of concern by each crop or commodity; crops by percent of the total irrigated acreage and total acreage; application and irrigation practices; and an initial list of the types of relevant management practices thought to be currently in use. In some cases, the percentage of acreage represented by Coalition members was provided, but this information was not available or obtainable for all SERs. Potential agricultural sources were prioritized by reported use of the pesticide(s) of concern, drainage distance and connectivity to water bodies, percent of irrigated acreage and total acreage, pesticide application and irrigation practices, and relevant management practices.

The results of pesticide SERs are summarized in Table 4. For each water body and pesticide, this table summarizes the key outcomes of the Source Evaluation:

- Priority of the specific Management Plan element
- Whether agricultural uses were found to be a likely source
- Non-agricultural sources of potential significance
- Which agricultural crops (or categories of crops) were considered priorities for outreach and management practice implementation
- Recommendations for future monitoring
- Status of the specific Management Plan element (whether completed or ongoing)
- Whether surveys of management practices were conducted

The results of toxicity SERs are summarized in Table 5. In addition to the information listed for pesticide SERs, the table for toxicity SERs also provide the following:

- Whether the cause(s) of toxicity exceedances were identified
- Identified priority pesticides for management and/or monitoring

Outreach

The Coalition and its subwatersheds, working with the Coalition for Urban/Rural Environmental Stewardship (CURES) continue to work with the Regional Water Board and its staff to implement the Coalition's *Management Practices Process* and the Coalition's approved Management Plan to address water quality problems identified in

the Sacramento Valley. The primary strategic approach taken by the Coalition has been to notify and educate the subwatershed landowners, farm operators, and/or wetland managers about the cause(s) of toxicity and/or exceedance(s) of water quality standards. Notifications have been focused on (but not limited to) growers who operate directly adjacent to or within close proximity to the waterway. The broader outreach program, which includes both grower meetings and the notifications distributed through direct mailings, encourages the adoption of BMPs and modification of the uses of specific farm and wetland inputs to prevent movement of constituents of concern into Sacramento Valley surface waters.

When exceedances are initially observed, the Coalition's targeted outreach approach is to focus on the growers with fields directly adjacent to or near the waterways of concern. To identify those landowners operating in high priority lands, the Coalition identifies the assessor parcels and subsequently the owners of agricultural operations nearest the water bodies of interest. From the list of assessor parcel numbers, the Coalition identifies its members and mails to them an advisory notice along with Sacramento Valley Water Quality Coalition 71 December 2008 – September 2009 Annual Monitoring Report information on how to address the specific exceedances using BMPs. This same approach has been used to conduct management practice surveys in areas targeted by the Management Plan.

Descriptions of the outreach and education activities specifically related to the Management Plan are provided in **Appendix B** (Management Plan Outreach Efforts – 2009).

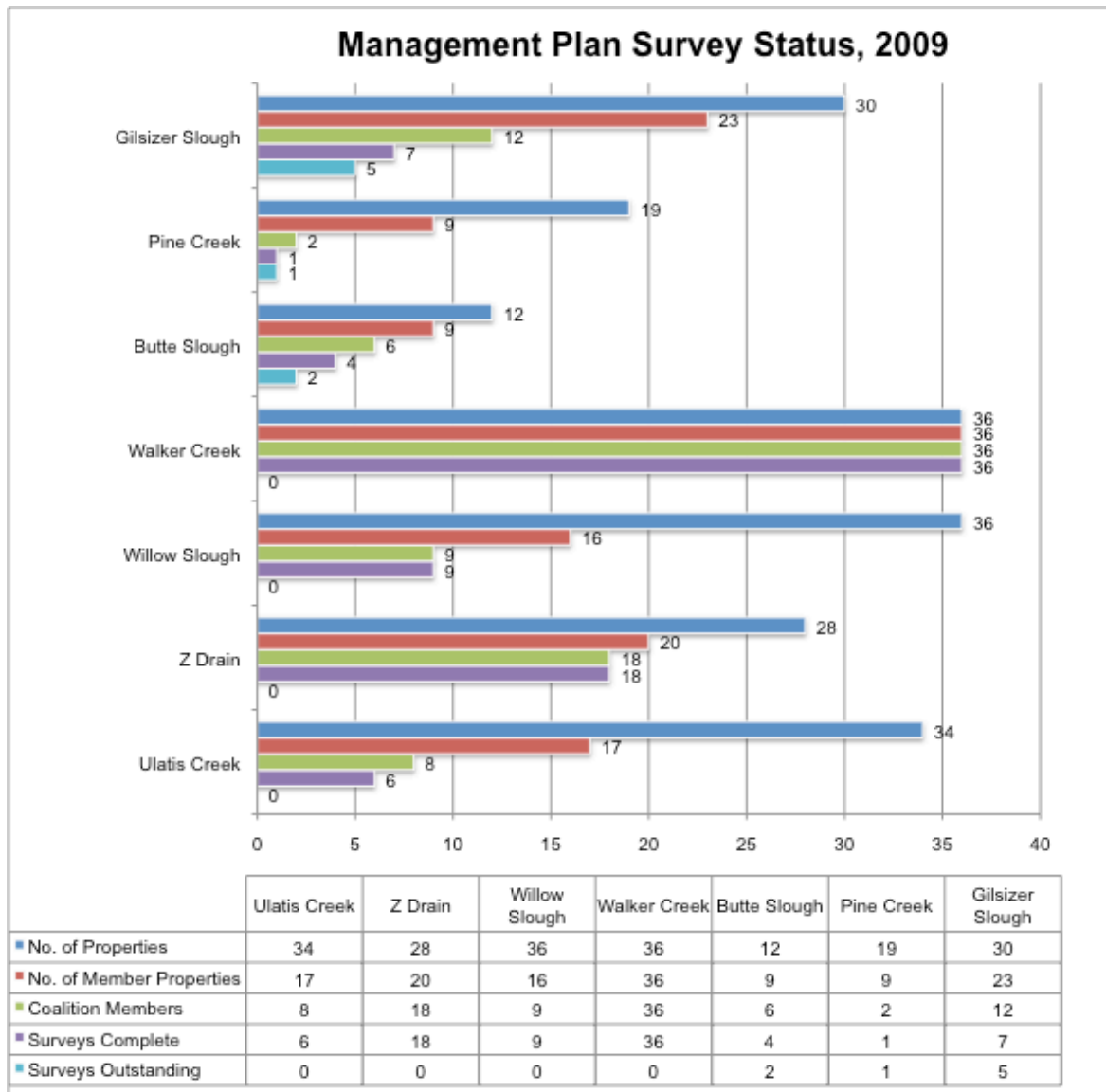
Management Practices Inventories and Member Surveys

Inventories of management practices have been conducted by the Coalition in several contexts for the ILRP. As part of finalizing the Monitoring and Reporting Program Order No. R5-2009-0875, the SVWQC and its coalition partners³ verified and updated the initial list of management practices in use from the Coalition's *Watershed Evaluation Report* (2004). More recently, seventeen (17) Source Evaluation Reports were prepared for thirteen (13) water bodies in 2009. These reports provide specific crop, hydrology, water management, irrigation methods and management practices information for each of the subwatersheds in the Sacramento Valley Water Quality Coalition (SVWQC). These inventories of Management Practices will be further refined by water body and constituent of concern based on the results of Management Practice Surveys conducted for high priority water bodies. The water body- and constituent-specific baselines from the surveys will form the basis for setting goals for implementation for the Management Plan.

Surveys have been conducted of growers on seven water bodies for the Management Plan. Out of a total of 91 surveys, there are a total of eight remaining to be completed for three water bodies. The status of the surveys initiated in 2009 is presented in **Figure 3**.

³ Coalition partners include local Farm Bureaus, Agricultural Commissioners' Offices, Resource Conservation Districts (RCDs), University of California Cooperative Extension (UCCE), Ducks Unlimited and the Coalition for Urban and Rural Environmental Stewardship (CURES).

Figure 3. Management Plan Survey Status, 2009.



MANAGEMENT PLAN UPDATE

This section provides an update to the Coalition’s currently approved Management Plan. The existing Management Plan approved in 2009 included elements based on monitoring conducted from 2005 through September 2007. Data collected by the Coalition through September 2009 were evaluated to update the management plan requirements.

Requirements for new management plan elements were based on observations of more than one exceedance in a three-year period, as required by the ILRP. Proposed tasks and schedules to implement the new elements were developed. In some cases, modifications to the existing scope or schedule for implementation outlined in the approved Management Plan were proposed.

New Management Plan Elements

There are 25 new Management Plan requirements in seven subwatersheds triggered by Coalition monitoring results collected since September 2007. These include 17 new elements in low priority categories (Do, pH, TDS, *E. coli*) and 7 new elements in high priority categories (toxicity and registered pesticides). One new element was also added in the nutrient category. This category was not included or assigned a category in the current approved Management Plan because monitoring conducted through September 2007 did not result in any Management Plan requirements. The priority proposed for nutrient management requirements is “medium”.

New Management Plan elements based on monitoring data through September 2009 are listed in **Table 6**.

Implementation Tasks and Schedule for New Elements

Tasks and schedules to implement the new management plan requirements were developed to be consistent with the Coalition’s existing Management Plan, unless otherwise specified. In cases where it was possible, the existing schedules for a category were adopted without modification. In others, the schedules were adjusted to conform to agricultural cycles, Coalition reporting schedules, or other ILRP programmatic constraints. Any modifications to the approaches or scope for specific Management Plan categories are documented in “Proposed Changes to the Management Plan”

The tasks and schedules proposed for the new Management Plan elements are provided in **Table 7**.

Proposed Changes to the Management Plan

Changes to the current approved Management Plan are proposed in the following areas:

- Addition of an approach to address the nutrient category of analytes
- Modification of the approach for the pathogen indicator category
- Schedule modifications for ongoing Management Plan element tasks

The proposed modifications are described in the following sections. If these modifications are approved as proposed, they will be incorporated into a revised Management Plan.

Addition of Nutrient Approach

The current approved Management Plan does not include an approach for analytes in the nutrient category (nitrogen and phosphorus compounds). Due the addition of a Management Plan requirement for nitrate in the Cache Slough drainage for Ulatis Creek, an approach for management of nutrient exceedances must be added to the Management Plan. These tasks and schedule for implementation of the proposed nutrient management approach are included in Table 7 and follow the general model for the Management Plan. The elements of the proposed approach are as follows:

Review Regulatory Basis

- Confirm regulatory basis establishing the need for the management plan. Discuss regulatory basis with ILRP Staff to confirm that MUN use applies in the affected water body.

Source Identification

- Identify and evaluate potential sources, including irrigation supply water quality, natural background, non-agricultural discharges, and agricultural inputs.
- Evaluate the timing and typical annual agricultural nutrient applications per acre for dominant crop types.
- Evaluate relevant monitoring data for relationships between nutrient exceedances and the timing of source discharges or applications.
- Prepare a Source Evaluation Report to identify and prioritize agricultural and non-agricultural sources of nutrients. Determine whether agriculture is a source of the observed exceedances.

Management Practice Implementation

- *If agriculture is identified as a source* of the exceedances, the Coalition will conduct surveys of Coalition members to identify the current level of implementation of relevant management practices.
- *If agriculture is identified as a source*, develop list of prioritized Management Practices specific to nutrients.
- *If agriculture is identified as a source*, set goals and schedule for additional Management Practice implementation.
- Implement additional Management Practices per established the Management Plan goals established above.

Effectiveness Evaluation

- Conduct follow-up surveys for tracking the progress of implementation.
- Conduct effectiveness monitoring for tracking the goals established for implementation. Generally, this will be conducted synoptically with Core and Assessment monitoring.

Modification of Pathogen Indicators Approach

The Source Identification element of the pathogen indicator approach currently includes development of a study to definitively identify sources of pathogen indicators in affected drainages. Development of this study was to be coordinated with the Central Valley Regional Water Board and include peer review to ensure the scientific validity of the study strategy and methods. The specific objectives and time frame for conducting the study have not yet been established. While such a study is possible, implementing a scientifically valid study at the proposed regional scale would be prohibitively costly and the expense cannot be borne by the Coalition (or even all of the coalitions in the ILRP). Additionally, based on the current development of scientific methods in pathogen source identification, it is not expected that even a scientifically valid study at a regional scale

would provide results adequately definitive to address the primary source question at the scale needed for individual affected water bodies (e.g., Is agriculture a significant source in the specific water body?).

Based on these factors, and at the request of the Regional Water Board ILRP staff, the Coalition is undertaking evaluation and development of a possible alternative approach for pathogen indicators. This approach would be focused on the effectiveness of implemented management alternatives for agricultural sources of pathogen indicators. A preliminary outline of the scope for the study has been proposed to include the following:

- Outline a process focused on management practice effectiveness that will establish adequate levels of pathogen indicator management alternatives for agriculture. Because this is a significant change in approach, the first steps in this process are to acquire approval from Coalition representatives, and subsequently from the Water Board for the proposed change.
- The preliminary work products from the group would be (1) a matrix of management alternatives and effectiveness estimates, and (2) identified significant gaps in knowledge requiring additional information to characterize effectiveness of practices.
- Convene a small group of experts and practitioners (commodity representatives, agriculture management "practioners" from UCCE and NRCS, scientists, Water Board staff) to discuss and identify known effective management strategies. These should address a range of crops and management practices in the areas of manure application methods and timing, grazing practices, irrigation practices, and runoff controls and "treatment". The group would be charged with estimating the effectiveness of different practices and identifying gaps in our understanding of these practices.
- Fill in the information gaps from existing literature sources and assess remaining gaps for significance, priority, and whether sufficient guidance can be provided without the information. If sufficient guidance can't be provided without it, assess whether the information can be developed through a sampling-based study and develop the study if needed.
- The final products of the management effectiveness study would be the matrix of management alternatives and effectiveness estimates, guidance for implementation of alternatives, and targets to define practice implementation adequate to eliminate agriculture as a significant source of pathogens.

Schedule and Implementation Task Modifications

Pathogen Indicator Management in the Upper Feather River Watershed: It is proposed that requirement for coordination with a regional source ID study should be modified to recognize the drainage-specific studies already implemented and completed by UFRW/UCCE as adequate to address this requirement of the plan.

Stony Creek Sediment Toxicity: The schedule and tasks for the Management Practice Implementation element were incorrectly specified and were not consistent with the scope of the approach. The tasks and schedule for this plan should be made consistent

with other toxicity management plans initiated in 2009. The schedule for Management Practice Implementation tasks should be as follows:

Task	Detail	Completion
Survey Coalition members	If specific cause identified and agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of management practices relevant to specific cause.	12/31/09
Develop list of Management Practices	If specific cause identified and agriculture is identified as a source, develop list of prioritized Management Practices specific to cause of toxicity	3/31/10
Set goals and schedule for implementation	If agriculture is identified as a source, set goals and schedule for additional outreach and Management Practice implementation.	6/30/10
Implement additional Management Practices	Implement additional Management Practices per established Management Plan goals	6/30/11

2010 Tasks and Schedule for Ongoing Management Plan Elements

The tasks to be completed in 2010 for the newly added Management Plan elements are included in Table 7. Tasks for the existing Management Plan elements established in 2008 are provided in Table 8.

TMDLS

Chlorpyrifos and Diazinon TMDL

The Basin Plan amendments (R5-2007-0034 and R5-2006-0061) require dischargers, either individually or as a coalition, to submit a management plan that describes the actions that they will take to reduce diazinon and chlorpyrifos discharges and meet the applicable allocations by the required compliance dates. The Coalition's Management Plan (SVWQC 2009) includes a process for source identification and identification of additional management practices that may be needed to achieve additional reductions in diazinon and chlorpyrifos discharges. Quarterly meetings will be held with the Regional Water Board in order to evaluate progress in meeting these reductions, and revisions to the Management Plan will be made if sufficient progress is not being achieved.

The Coalition continues to monitor chlorpyrifos and diazinon according to the Coalition's approved 2009 Monitoring and Reporting Program Plan (MRPP) Core and Assessment monitoring schedule and the SVWQC 2010-2014 MRP Order⁴. The monitoring locations are representative of discharges to the Sacramento River, Feather River, and Delta. This monitoring will continue to provide information on the wide range of discharges and hydrologic conditions likely to occur in the Sacramento Valley watershed and Delta. The Coalition's 2009 MRPP and the 2010 MRP present the technical rationale for selecting representative monitoring locations. The schedule for TMDL monitoring at these locations is provided in the **Appendix C** (Addendum to Sacramento Valley Water

⁴ Monitoring And Reporting Program Order No. R5-2009-0875 for Sacramento Valley Water Quality Coalition Under Amended Order No. R5-2006-0053 Coalition Group Conditional Waiver Of Waste Discharge Requirements For Discharges From Irrigated Lands. California Regional Water Quality Control Board Central Valley Region, Rancho Cordova, California. December 2009.

Quality Coalition Management Plan: Chlorpyrifos and Diazinon TMDLs). The Addendum detailing the Coalition's monitoring frequency and locations for chlorpyrifos and diazinon will be evaluated and updated in these annual Management Plan Progress Reports.

Additional monitoring beyond the routine Core and Assessment monitoring will continue to take place at existing Coalition monitoring sites in water bodies where at least one exceedance has occurred and that are directly tributary to the affected TMDL water bodies. Coalition efforts in these subwatersheds will include but not be limited to: (1) Continued monitoring at periods when peak pesticide application use occurs, (2) analysis of Pesticide Use Report (PUR) data, (3) holding subwatershed grower meetings, (4) continue to encourage and evaluate implementation of management practices, and (5) address the seven compliance components described in the Basin Plan and listed below in conjunction with other entities identified as potential sources of discharges. Additional activities addressing Basin Plan and MRP Order requirements for source identification, outreach, and management practice evaluation are described in the Coalition's Management Plan.

The seven Basin Plan requirements for TMDL compliance monitoring are:

1. Determine compliance with established water quality objectives and loading capacities in Sacramento-San Joaquin Delta and the Sacramento and Feather rivers;
2. Determine compliance with established waste load allocations and load allocations for diazinon and chlorpyrifos;
3. Determine the degree of implementation of management practices to reduce off-site migration of diazinon and chlorpyrifos;
4. Determine the effectiveness of management practices and strategies to reduce off-site migration of diazinon and chlorpyrifos;
5. Determine whether alternatives to diazinon and chlorpyrifos are causing surface water quality impacts;
6. Determine whether the discharge causes or contributes to a toxicity impairment due to additive or synergistic effects of multiple pollutants; and
7. Demonstrate that management practices are achieving the lowest pesticide levels technically and economically achievable.

The Coalition's approach in addressing these requirements is described in the Addendum in Appendix B.

Tables

Table 1 -Sites with 2009 Tasks

Management Plan Category	Subwatershed	Waterbody	Analyte	Summary of Major Mgt Plan Task Activity
DO and pH	UpperFeatherRiver	Indian Creek Middle Fork Feather River Middle Fork Feather River	DO DO pH	Special Study reports delayed by grant fundiing freeze. Report completion currently in progress.
Legacy Pesticides	ButteYubaSutter	Gilsizer Slough	DDE/DDT	Sediment sampling conducted in 2009 and data reported in 2009 AMR.
	ColusaGlenn	Freshwater Creek	DDE/DDT	
		Lurline Creek Sycamore Slough	DDE/DDT DDE/DDT	
	EIDorado	Coon Hollow Creek	DDE/DDT	
		North Canyon Creek	DDE/DDT	
SacramentoAmador	Grand Island Drain	DDE/DDT		
Pathogen Indicators	PNSSNS	Willow Slough	DDE/DDT	Targeted sampling conducted at upstream site to identify potential source.
		Coon Creek	E. Coli	
Registered Pesticides	UpperFeatherRiver	Indian Creek Spanish Creek	E. Coli E. Coli	Special Study reports delayed by grant fundiing freeze. Report completion currently in progress.
	ButteYubaSutter	Gilsizer Slough Pine Creek	Diazinon Chlorpyrifos	Major tasks included evaluations of monitoring data, reviews of pesticide data, identification and prioritization of potential sources, completion of draft source evaluation reports, and coalition member surveys.
ColusaGlenn	Walker Creek	Chlorpyrifos		
PNSSNS	Coon Creek	Chlorpyrifos		
SolanoYolo	Ulatis Creek	Malathion		
	Ulatis Creek Willow Slough	Diuron Chlorpyrifos		
Toxicity	ButteYubaSutter	Butte Slough	Selenastrum	Major tasks included evaluations of monitoring data, reviews of pesticide data, identification and prioritization of potential sources, compilation and evaluation of pesticide chemical and toxicity characteristics, completion of draft source evaluation reports, and coalition member surveys.
	ColusaGlenn	Stony Creek	Hyalella	
		Walker Creek	Ceriodaphnia	
	EIDorado	Coon Hollow Creek	Ceriodaphnia	
	SacramentoAmador	Laguna Creek	Ceriodaphnia	
	SolanoYolo	Ulatis Creek	Selenastrum	
		Willow Slough Willow Slough Z-Drain	Ceriodaphnia Selenastrum Hyalella	
	Cache Creek	Ceriodaphnia	Incorrectly included in 2008 Management Plan due to invalid analytical result. Subsequent results in 2008 required addition to Management Plan in 2010 update.	

TABLE 2 - 2009 Task Status Table

Management Plan Category	Implementation Element	Management Plan Task	Element Detail	Scheduled Completion	Results and Outcomes
DO and pH	Review Regulatory Basis	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	Jun 2009	Discussed and confirmed applicability of regulatory basis with ILRP Staff, based on support of aquatic life uses. No determination was made regarding impact of low flows on DO and pH exceedances.
	Source ID	Report UFRW 2008 Special Study results	Evaluate and Report results of 2008 Special Studies by UFRW	Jun 2009	Completion of final special study report was delayed by freeze of grant funding in December 2008. The completion date currently projected for the final study report is May 2010.
		Evaluate nutrient applications	If not resolved by initial Special Studies, evaluate nutrient applications and agricultural uses	Dec 2009	Based on special studies, evaluation of nutrient applications not warranted (nutrients found to be reduced below grazed pastures).
Legacy Pesticides	Review Regulatory Basis	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	Jun 2009	Discussed and confirmed applicability of regulatory basis with ILRP Staff, based on support of fish consumption beneficial uses and applicable TMDLs.
	Source ID	Sample sediments	Sampling of water body sediment concentrations	Dec 2009	Conducted in Spring and Summer of 2009. Preliminary analysis indicates few "hot spots" requiring additional focus. Analytical results were included in 2009 Annual Monitoring Report.
Pathogen Indicators	Review Regulatory Basis	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	Dec 2009	Discussed and confirmed applicability of regulatory basis with ILRP Staff, based on support of existing or potential contact recreation beneficial use.
	Source ID	Source Evaluation Report	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices. (UFRW only)	Sep 2009	UFRW only. Source evaluation requirement addressed by studies conducted in UFRW by UCCE. Completion of final special study report was delayed by freeze of grant funding in December 2008. The completion date currently projected for the final study report is May 2010.
		Monitor upstream location	Monitor upstream location to isolate potential non-agricultural	Dec 2009	PNSSNS only. Upstream location monitored for 6 events in 2009. Outcome suggests an upstream source of E. coli (possibly the duck club upstream). Results were reported in 2009 Annual Monitoring Report.
	Management Practice Implementation	Survey Coalition members	Conduct surveys of Coalition members for current level of implementation of relevant management practices (Applies to UFRW only in 2009).	Dec 2009	UFRW only. Surveys were not conducted. Instead, outreach to increase implementation of additional practices was initiated without establishing baseline implementation. Decision for implementation was based on the outcome of studies of pathogen indicators in this watershed.
		Coordinate to implement Region-wide Source ID Study	Coordinate with ILRP Coalitions and Water Board to develop and implement Region-wide Source ID Study (Task completion date applies to UFRW only in 2009).	Dec 2009	Propose that this should be modified to recognize region-specific studies already implemented and completed by UFRW/UCCE.
Registered Pesticides	Review Regulatory Basis	Review Regulatory Basis	Review monitoring data and regulatory basis establishing the need for the management plan	Dec 2009	Discussed and confirmed applicability of regulatory basis with ILRP Staff, based on support of aquatic life and MUN uses. Determined that Basin Plan prohibitions applied to all non-rice uses of malathion, and that existing approved management plan was not sufficient to qualify non-rice uses to be regulated based on Performance Goal.
	Source ID	Review pesticide application data	Review pesticide application data for 3 most recent years for drainage	Mar 2009	Completed and reported in Source Evaluation Reports.
		Identify potential sources	Identify agricultural and any potential non-agricultural sources explaining the exceedances	May 2009	Completed and reported in Source Evaluation Reports.
		Determination of likely agricultural sources	Determination of likely agricultural sources of pesticide(s) of concern	Jul 2009	Completed and reported in Source Evaluation Reports.
		Source Evaluation Report	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, percentage of crops from annual crop reports or permit data, pesticide applications, irrigation practices, and current management practices	Sep 2009	Drafts submitted in September 2009. Final reports responding to comments submitted March 2010. Outcomes included completion of Management Plan, identification of next steps, surveys for practice implementation, and/or recommendations for additional monitoring.
	Management Practice Implementation	Implement additional Management Practices	Implement Management Practices per established Management Plan goals (Yolo County chlorpyrifos plan only).	Dec 2009	Practice implementation consisted of adhering to additional restrictions on chlorpyrifos use by Yolo County. Implementation is ongoing.
		Survey Coalition members	If agriculture is identified as a potential source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Dec 2009	Surveys were implemented in Fall and Winter 2009. Responses to surveys were near 100%. Follow-up on a few unreturned surveys continues. Results are being compiled.
	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation	Dec 2009	Monitoring conducted in Willow Slough for effectiveness of new chlorpyrifos restrictions for Yolo County. Absence of exceedances indicated that new restrictions were effective in reducing or eliminating exceedances. Results have been reported in Semi-Annual and Annual Monitoring Reports.
Toxicity	Source ID	Additional review of pesticide applications	Additional review of pesticide applications	Jun 2009	Completed and reported in Source Evaluation Reports.
		Evaluate monitoring data	Evaluation of Coalition Monitoring Data	Jun 2009	Completed and reported in Source Evaluation Reports.
		Identify potential sources	Identification of potential agricultural and any non-agricultural sources explaining the exceedances	Jun 2009	Completed and reported in Source Evaluation Reports.
		Source Evaluation Report	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, drainage distance to surface water, irrigated acreage by crop or commodity, pesticide application, irrigation practices, and current management practices	Sep 2009	Initial drafts submitted September, revised drafts October - December 2009. Final reports responding to comments submitted March 2010. Range of outcomes included completion of Management Plan, evaluation of potential causes of toxicity, identification of causes of toxicity, identification of next steps, surveys for practice implementation (for known causes of toxicity), and/or recommendations for additional monitoring.
	Management Practice Implementation	Survey Coalition members	If specific cause identified and agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of management practices relevant to specific cause.	Dec 2009	Surveys were implemented in Fall and Winter 2009. Responses to surveys were near 100%. Follow-up on a few unreturned surveys continues. Results are being compiled.
		Set goals and schedule for implementation	If agriculture is identified as a source, set goals and schedule for additional outreach and Management Practice implementation.	Dec 2009	Stony Creek toxicity only; This element is dependent on SERs and survey results and has not yet been completed. Implementation is inconsistent with Plan approach. The schedule should be made consistent with other toxicity plans.

TABLE 3 - 2009 Mgt Plan Monitoring

Management Plan Category	Subwatershed	Waterbody	Analyte	Summary of Monitoring
DO and pH	UpperFeatherRiver	Indian Creek Middle Fork Feather River Middle Fork Feather River	DO DO pH	Special study sampling conducted through 2008. Final reports delayed by Grant funding freeze. Routine core monitoring conducted monthly in 2009 included DO and pH.
Legacy Pesticides	ButteYubaSutter	Gilsizer Slough	DDE/DDT	Sediment sampling event completed in 2009 and all data reported in 2009 AMR. Preliminary results indicated that there were no "hot spots" requiring additional focused sampling and that management practice outreach and implementation should apply generally, rather than to specific areas or crops.
	ColusaGlenn	Freshwater Creek	DDE/DDT	
		Lurline Creek Sycamore Slough	DDE/DDT DDE/DDT	
	EIDorado	Coon Hollow Creek North Canyon Creek	DDE/DDT DDE/DDT	
	SacramentoAmador	Grand Island Drain	DDE/DDT	
SolanoYolo	Willow Slough	DDE/DDT		
Pathogen Indicators	PNSSNS	Coon Creek	E. Coli	Targeted sampling was conducted for 6 events at upstream site (in addition to scheduled core monitoring) to identify potential source. Results indicated that an upstream source had consistently elevated E. coli and was the probable cause or contributor of majority of exceedances.
	UpperFeatherRiver	Indian Creek Spanish Creek	E. Coli E. Coli	Special study sampling conducted through 2008. Final reports delayed by Grant funding freeze. Routine core monitoring conducted monthly in 2009.
Registered Pesticides	ButteYubaSutter	Gilsizer Slough	Diazinon	2 dormant season events conducted in 2009. One exceedance observed.
		Pine Creek	Chlorpyrifos	2 dormant season events conducted in 2009. One detection and no exceedances observed.
	ColusaGlenn	Walker Creek	Chlorpyrifos	8 sample events conducted in 2009. One exceedance and one additional detection observed.
	PNSSNS	Coon Creek	Chlorpyrifos	6 sample events conducted in 2009. No exceedances or detections observed.
	SolanoYolo	Ulatis Creek	Malathion	7 sample events conducted in 2009. No exceedances or detections observed.
		Ulatis Creek	Diuron	3 wet season events conducted in 2009. One exceedance (associated with toxicity) and no additional detections observed.
Willow Slough		Chlorpyrifos	5 sample events conducted in 2009. No exceedances or detections observed.	
Toxicity	ButteYubaSutter	Butte Slough	Selenastrum	4 events conducted in 2009 in addition to CRC sampling. No exceedances were observed.
	ColusaGlenn	Stony Creek	Hyalella	Planned samples could not be collected due to lack of flow.
		Walker Creek	Ceriodaphnia	9 sample events conducted in 2009. No exceedances were observed.
	EIDorado	Coon Hollow Creek	Ceriodaphnia	No monitoring was planned or conducted in 2009.
	SacramentoAmador	Laguna Creek	Ceriodaphnia	4 events conducted in 2009. No exceedances were observed.
	SolanoYolo	Ulatis Creek	Selenastrum	3 wet season events conducted in 2009. One exceedance associated with diuron was observed.
		Willow Slough Willow Slough	Ceriodaphnia	4 wet season events conducted in 2009. No exceedances were observed.
			Selenastrum	4 wet season events conducted in 2009. One exceedance of undetermined cause was observed.
Z-Drain		Hyalella	2 sample events conducted in 2009. One exceedance associated with pyrethroid pesticides was observed.	
Cache Creek		Ceriodaphnia	4 events conducted in 2009. No exceedances were observed.	

TABLE 4 - Pesticide SER Outcomes

Subwatershed	Water Body	Analyte of Concern	Priority	Likley Ag Source	Other Sources	Priority Crops	Monitoring Recommendations	Mgt Plan Status	Management Practice Surveys
Butte Yuba Sutter	Gilsizer Slough	Diazinon	HIGH	YES	Urban Runoff (decreasing)	Peaches, Prunes	Dormant season samples 2010	ONGOING	YES
Butte Yuba Sutter	Pine Creek	Chlorpyrifos	HIGH	YES	Minor	Walnuts, Almonds	Ass't 2011	ONGOING	Pine Creek BMP Survey
Colusa Glenn	Walker Creek	Chlorpyrifos	HIGH	YES	Minor	Almonds (+alfalfa, walnuts)	JUL-SEP 2010	ONGOING	NO [completed by Ag Comms for MOU]
PNSSNS	Coon Creek	Chlorpyrifos	HIGH	YES	Minor	Walnuts, alfalfa	Ass't 2011 (CCBRW)	COMPLETED pending approval (based on no exceedances or detections since 2005; decreased overall use)	NO
Solano Yolo	Willow Slough	Chlorpyrifos	HIGH	YES	Residential use (decreasing)	Alfalfa, walnuts	Ass't 2011	COMPLETED pending approval (based on no exceedances or detections since 2007; decreased overall use; add'l regulation)	NO (based on implemented practices)
Solano Yolo	Ulati Creek	Malathion	HIGH	YES	Urban Runoff (decreasing)	Alfalfa, watermelon, nursery plants	Ass't 2011	ONGOING	YES
Solano Yolo	Ulati Creek	Diuron	HIGH	YES	ROW, urban runoff, Vacaville POTW	Alfalfa, grapes	Wet season samples 2010	ONGOING	YES

TABLE 5 - Toxicity SER Outcomes

Subwatershed	Water Body	Analyte of Concern	Priority	Cause of toxicity identified	Likley Ag Source	Other Sources	Identified Priority Pesticides	Priority Crops	Monitoring Recommendations	Mgt Plan Status	Management Practice Surveys
Butte Yuba Sutter	Butte Slough	Toxicity - Selenastrum	HIGH	NO	YES	Minor	Oxyfluorfen	rice, almonds, walnuts	Ass't 2011, [Toxicity, oxyfluorfen]	ONGOING	NO
Colusa Glenn	Stony Creek	Toxicity - Hyalella (sediment)	MEDIUM	NO	YES	urban/rural residential	Esfenvalerate, permethrin, chlorpyrifos	alfalfa, walnuts, corn, sunflowers	Sediment toxicity in 2011	ONGOING	NO
Colusa Glenn	Walker Creek	Toxicity - Ceriodaphnia	HIGH	YES (1 of 3)	YES (2 of 3)	urban/rural residential	Chlorpyrifos	alfalfa, orchard crops,	JUL-SEP 2010	ONGOING	Previously completed by Ag Comms
El Dorado	Coon Hollow Creek	Toxicity - Ceriodaphnia	HIGH	NO	NO	several potential	None identified	None identified	None recommended. Discontinue in 2010	COMPLETED pending approval	NO
Sacramento Amador	Laguna Creek	Toxicity - Ceriodaphnia	HIGH	NO	NO	several potential	None identified	None identified	None recommended. Discontinue in 2010	COMPLETED pending approval	NO
Solano Yolo	Ulatis Creek	Toxicity - Selenastrum	HIGH	YES	YES	ROW, urban runoff, Vacaville POTW	Diuron	Alfalfa	Diuron in wet season 2010	ONGOING	YES
Solano Yolo	Willow Slough	Toxicity - Selenastrum	HIGH	YES (2 of 3)	YES	ROW, urban/rural residential runoff	Diuron	Alfalfa	JAN-APR, DEC 2010	ONGOING	YES
Solano Yolo	Willow Slough	Toxicity - Ceriodaphnia	HIGH	YES (1 of 2)	YES	Residential use (decreasing)	Chlorpyrifos	Alfalfa, walnuts	Early wet season 2010 sediment sample for pyrethroids	ONGOING	NO
Solano Yolo	Z Drain	Toxicity - Hyalella (sediment)	HIGH	YES (1 of 4)	YES	None identified	lambda-cyhalothrin, esfenvalerate, cypermethrin	Alfalfa, Tomato, Sorghum, Beans, Sunflowers	Sediment samples for pyrethroids, 2010; Coord. with Weston study.	ONGOING	YES

TABLE 6 - New Management Plans

Subwatershed	Water Body	Monitoring Site	MgtPlanCategory	Analyte	Default Analyte Priority	Final Priority
ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at George Washington Road	Registered Pesticides	Malathion	HIGH	HIGH
ButteYubaSutter	Lower Honcut Creek	Lower Honcut Creek at Hwy 70	DO and pH	DO	LOW	LOW
ButteYubaSutter	Lower Honcut Creek	Lower Honcut Creek at Hwy 70	Pathogen Indicators	E. coli	LOW	LOW
ButteYubaSutter	Lower Snake River	Lower Snake R. at Nuestro Rd	Registered Pesticides	Chlorpyrifos	HIGH	HIGH
ButteYubaSutter	Lower Snake River	Lower Snake R. at Nuestro Rd	Toxicity	Toxicity - Ceriodaphnia	HIGH	HIGH
ButteYubaSutter	Pine Creek	Pine Creek at Nord Gianella Road	DO and pH	DO	LOW	LOW
ButteYubaSutter	Sacramento Slough	Sacramento Slough bridge near Karnak	DO and pH	DO	LOW	LOW
ColusaGlenn	Colusa Basin Drain	Colusa Basin Drain above KL	DO and pH	DO	LOW	LOW
ColusaGlenn	Freshwater Creek	Freshwater Creek at Gibson Rd	Pathogen Indicators	E. coli	LOW	LOW
ColusaGlenn	Logan Creek	Logan Creek at 4 Mile-Excelsior Rd	Salinity	TDS	LOW	LOW
ColusaGlenn	Stony Creek	Stony Creek on Hwy 45 near Rd 24	Toxicity	Toxicity - Ceriodaphnia	HIGH	HIGH
PlacerNevadaSSutterNSacramento	Coon Creek	Coon Creek at Brewer Road	DO and pH	DO	LOW	LOW
SacramentoAmador	Cosumnes River	Cosumnes River at Twin Cities Rd	DO and pH	DO	LOW	LOW
SacramentoAmador	Cosumnes River	Cosumnes River at Twin Cities Rd	Pathogen Indicators	E. coli	LOW	LOW
SacramentoAmador	Grand Island	Grand Island Drain near Leary Road	DO and pH	DO	LOW	LOW
SacramentoAmador	Grand Island	Grand Island Drain near Leary Road	Pathogen Indicators	E. coli	LOW	LOW
ShastaTehama	Coyote Creek	Coyote Creek at Tyler Road	Pathogen Indicators	E. coli	LOW	LOW
SolanoYolo	Cache Creek	Cache Creek at Capay Diversion Dam	DO and pH	DO	LOW	LOW
SolanoYolo	Cache Creek	Cache Creek at Capay Diversion Dam	Toxicity	Toxicity - Ceriodaphnia	HIGH	HIGH
SolanoYolo	Shag Slough	Shag Slough at Liberty Island Bridge	Pathogen Indicators	E. coli	LOW	LOW
SolanoYolo	Ulatis Creek	Ulatis Creek at Brown Road	Nutrients	Nitrate as N	MEDIUM	MEDIUM
SolanoYolo	Willow Slough	Willow Slough Bypass at Pole Line	DO and pH	pH	LOW	LOW
SolanoYolo	Willow Slough	Willow Slough Bypass at Pole Line	Registered Pesticides	Diuron	HIGH	HIGH
SolanoYolo	Willow Slough	Willow Slough Bypass at Pole Line	Registered Pesticides	Malathion	HIGH	HIGH
UpperFeatherRiver	Spanish Creek	Spanish Creek below Greenhorn Creek	DO and pH	DO	LOW	LOW

TABLE 7 - Task For New Plans 2010

Subwatershed	Waterbody	Management Plan Category	Task ID	Implementation Element	Management Plan Task	Element Detail	Responsible Agency or Entities	Responsible Entities	Task Start	Task End
ButteYubaSutter	Lower Honcut Creek	DO and pH	1	Review Regulatory Basis	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan. Confirm appropriate beneficial uses (COLD/WARM aquatic life)	SVWQC, ILRP Staff	SVWQC; ILRP	1/1/10	6/30/10
ButteYubaSutter	Lower Honcut Creek	DO and pH	2.1	Source ID	Evaluate nutrient applications	Evaluate Nutrient applications and agricultural uses	SVWQC	SVWQC	7/1/10	12/31/10
ButteYubaSutter	Lower Honcut Creek	DO and pH	2.2	Source ID	Evaluate monitoring data	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	SVWQC	1/1/11	6/30/11
ButteYubaSutter	Lower Honcut Creek	DO and pH	2.3	Source ID	Source Evaluation Report	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC, subwatershed coordinator	SVWQC; SWC	7/1/11	9/30/11
ButteYubaSutter	Lower Honcut Creek	DO and pH	3.1	Management Practice Implementation	Survey Coalition members	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	10/1/11	12/31/11
ButteYubaSutter	Lower Honcut Creek	DO and pH	3.2	Management Practice Implementation	Develop list of Management Practices	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	SWC; SVWQC; LOG	1/1/12	3/31/12
ButteYubaSutter	Lower Honcut Creek	DO and pH	3.3	Management Practice Implementation	Set goals and schedule for implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	4/1/12	6/30/12
ButteYubaSutter	Lower Honcut Creek	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional Management Practices per established Management Plan goals	Landowners and growers	LOG	7/1/12	1/31/13
ButteYubaSutter	Lower Honcut Creek	DO and pH	4.1	Effectiveness Evaluation	Conduct follow-up implementation surveys	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	TBD	TBD
ButteYubaSutter	Lower Honcut Creek	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	SVWQC	TBD	TBD
ButteYubaSutter	Pine Creek	DO and pH	1	Review Regulatory Basis	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	SVWQC; ILRP	1/1/10	6/30/10
ButteYubaSutter	Pine Creek	DO and pH	2.1	Source ID	Evaluate nutrient applications	Evaluate Nutrient applications and agricultural uses	SVWQC	SVWQC	7/1/10	12/31/10
ButteYubaSutter	Pine Creek	DO and pH	2.2	Source ID	Evaluate monitoring data	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	SVWQC	1/1/11	6/30/11
ButteYubaSutter	Pine Creek	DO and pH	2.3	Source ID	Source Evaluation Report	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC, subwatershed coordinator	SVWQC; SWC	7/1/11	9/30/11
ButteYubaSutter	Pine Creek	DO and pH	3.1	Management Practice Implementation	Survey Coalition members	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	10/1/11	12/31/11
ButteYubaSutter	Pine Creek	DO and pH	3.2	Management Practice Implementation	Develop list of Management Practices	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	SWC; SVWQC; LOG	1/1/12	3/31/12
ButteYubaSutter	Pine Creek	DO and pH	3.3	Management Practice Implementation	Set goals and schedule for implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	4/1/12	6/30/12
ButteYubaSutter	Pine Creek	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional Management Practices per established Management Plan goals	Landowners and growers	LOG	7/1/12	1/31/13
ButteYubaSutter	Pine Creek	DO and pH	4.1	Effectiveness Evaluation	Conduct follow-up implementation surveys	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	TBD	TBD
ButteYubaSutter	Pine Creek	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	SVWQC	TBD	TBD

TABLE 7 - Task For New Plans 2010

Subwatershed	Waterbody	Management Plan Category	Task ID	Implementation Element	Management Plan Task	Element Detail	Responsible Agency or Entities	Responsible Entities	Task Start	Task End
ButteYubaSutter	Sacramento Slough	DO and pH	1	Review Regulatory Basis	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	SVWQC; ILRP	1/1/10	6/30/10
ButteYubaSutter	Sacramento Slough	DO and pH	2.1	Source ID	Evaluate nutrient applications	Evaluate Nutrient applications and agricultural uses	SVWQC	SVWQC	7/1/10	12/31/10
ButteYubaSutter	Sacramento Slough	DO and pH	2.2	Source ID	Evaluate monitoring data	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	SVWQC	1/1/11	6/30/11
ButteYubaSutter	Sacramento Slough	DO and pH	2.3	Source ID	Source Evaluation Report	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC, subwatershed coordinator	SVWQC; SWC	7/1/11	9/30/11
ButteYubaSutter	Sacramento Slough	DO and pH	3.1	Management Practice Implementation	Survey Coalition members	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	10/1/11	12/31/11
ButteYubaSutter	Sacramento Slough	DO and pH	3.2	Management Practice Implementation	Develop list of Management Practices	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	SWC; SVWQC; LOG	1/1/12	3/31/12
ButteYubaSutter	Sacramento Slough	DO and pH	3.3	Management Practice Implementation	Set goals and schedule for implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	4/1/12	6/30/12
ButteYubaSutter	Sacramento Slough	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional Management Practices per established Management Plan goals	Landowners and growers	LOG	7/1/12	1/31/13
ButteYubaSutter	Sacramento Slough	DO and pH	4.1	Effectiveness Evaluation	Conduct follow-up implementation surveys	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	TBD	TBD
ButteYubaSutter	Sacramento Slough	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	SVWQC	TBD	TBD
ColusaGlenn	Colusa Basin Drain	DO and pH	1	Review Regulatory Basis	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	SVWQC; ILRP	1/1/10	6/30/10
ColusaGlenn	Colusa Basin Drain	DO and pH	2.1	Source ID	Evaluate nutrient applications	Evaluate Nutrient applications and agricultural uses	SVWQC	SVWQC	7/1/10	12/31/10
ColusaGlenn	Colusa Basin Drain	DO and pH	2.2	Source ID	Evaluate monitoring data	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	SVWQC	1/1/11	6/30/11
ColusaGlenn	Colusa Basin Drain	DO and pH	2.3	Source ID	Source Evaluation Report	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC, subwatershed coordinator	SVWQC; SWC	7/1/11	9/30/11
ColusaGlenn	Colusa Basin Drain	DO and pH	3.1	Management Practice Implementation	Survey Coalition members	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	10/1/11	12/31/11
ColusaGlenn	Colusa Basin Drain	DO and pH	3.2	Management Practice Implementation	Develop list of Management Practices	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	SWC; SVWQC; LOG	1/1/12	3/31/12
ColusaGlenn	Colusa Basin Drain	DO and pH	3.3	Management Practice Implementation	Set goals and schedule for implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	4/1/12	6/30/12
ColusaGlenn	Colusa Basin Drain	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional Management Practices per established Management Plan goals	Landowners and growers	LOG	7/1/12	1/31/13
ColusaGlenn	Colusa Basin Drain	DO and pH	4.1	Effectiveness Evaluation	Conduct follow-up implementation surveys	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	TBD	TBD
ColusaGlenn	Colusa Basin Drain	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	SVWQC	TBD	TBD

TABLE 7 - Task For New Plans 2010

Subwatershed	Waterbody	Management Plan Category	Task ID	Implementation Element	Management Plan Task	Element Detail	Responsible Agency or Entities	Responsible Entities	Task Start	Task End
PlacerNevadaSSutterN	Coon Creek	DO and pH	1	Review Regulatory Basis	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	SVWQC; ILRP	1/1/10	6/30/10
PlacerNevadaSSutterN	Coon Creek	DO and pH	2.1	Source ID	Evaluate nutrient applications	Evaluate Nutrient applications and agricultural uses	SVWQC	SVWQC	7/1/10	12/31/10
PlacerNevadaSSutterN	Coon Creek	DO and pH	2.2	Source ID	Evaluate monitoring data	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	SVWQC	1/1/11	6/30/11
PlacerNevadaSSutterN	Coon Creek	DO and pH	2.3	Source ID	Source Evaluation Report	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC, subwatershed coordinator	SVWQC; SWC	7/1/11	9/30/11
PlacerNevadaSSutterN	Coon Creek	DO and pH	3.1	Management Practice Implementation	Survey Coalition members	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	10/1/11	12/31/11
PlacerNevadaSSutterN	Coon Creek	DO and pH	3.2	Management Practice Implementation	Develop list of Management Practices	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	SWC; SVWQC; LOG	1/1/12	3/31/12
PlacerNevadaSSutterN	Coon Creek	DO and pH	3.3	Management Practice Implementation	Set goals and schedule for implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	4/1/12	6/30/12
PlacerNevadaSSutterN	Coon Creek	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional Management Practices per established Management Plan goals	Landowners and growers	LOG	7/1/12	1/31/13
PlacerNevadaSSutterN	Coon Creek	DO and pH	4.1	Effectiveness Evaluation	Conduct follow-up implementation surveys	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	TBD	TBD
PlacerNevadaSSutterN	Coon Creek	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	SVWQC	TBD	TBD
SacramentoAmador	Cosumnes River	DO and pH	1	Review Regulatory Basis	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	SVWQC; ILRP	1/1/10	6/30/10
SacramentoAmador	Cosumnes River	DO and pH	2.1	Source ID	Evaluate nutrient applications	Evaluate Nutrient applications and agricultural uses	SVWQC	SVWQC	7/1/10	12/31/10
SacramentoAmador	Cosumnes River	DO and pH	2.2	Source ID	Evaluate monitoring data	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	SVWQC	1/1/11	6/30/11
SacramentoAmador	Cosumnes River	DO and pH	2.3	Source ID	Source Evaluation Report	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC, subwatershed coordinator	SVWQC; SWC	7/1/11	9/30/11
SacramentoAmador	Cosumnes River	DO and pH	3.1	Management Practice Implementation	Survey Coalition members	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	10/1/11	12/31/11
SacramentoAmador	Cosumnes River	DO and pH	3.2	Management Practice Implementation	Develop list of Management Practices	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	SWC; SVWQC; LOG	1/1/12	3/31/12
SacramentoAmador	Cosumnes River	DO and pH	3.3	Management Practice Implementation	Set goals and schedule for implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	4/1/12	6/30/12
SacramentoAmador	Cosumnes River	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional Management Practices per established Management Plan goals	Landowners and growers	LOG	7/1/12	1/31/13
SacramentoAmador	Cosumnes River	DO and pH	4.1	Effectiveness Evaluation	Conduct follow-up implementation surveys	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	TBD	TBD
SacramentoAmador	Cosumnes River	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	SVWQC	TBD	TBD

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Subwatershed	Waterbody	Management Plan Category	Task ID	Implementation Element	Management Plan Task	Element Detail	Responsible Agency or Entities	Responsible Entities	Task Start	Task End
SacramentoAmador	Grand Island	DO and pH	1	Review Regulatory Basis	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	SVWQC; ILRP	1/1/10	6/30/10
SacramentoAmador	Grand Island	DO and pH	2.1	Source ID	Evaluate nutrient applications	Evaluate Nutrient applications and agricultural uses	SVWQC	SVWQC	7/1/10	12/31/10
SacramentoAmador	Grand Island	DO and pH	2.2	Source ID	Evaluate monitoring data	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	SVWQC	1/1/11	6/30/11
SacramentoAmador	Grand Island	DO and pH	2.3	Source ID	Source Evaluation Report	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC, subwatershed coordinator	SVWQC; SWC	7/1/11	9/30/11
SacramentoAmador	Grand Island	DO and pH	3.1	Management Practice Implementation	Survey Coalition members	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	10/1/11	12/31/11
SacramentoAmador	Grand Island	DO and pH	3.2	Management Practice Implementation	Develop list of Management Practices	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	SWC; SVWQC; LOG	1/1/12	3/31/12
SacramentoAmador	Grand Island	DO and pH	3.3	Management Practice Implementation	Set goals and schedule for implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	4/1/12	6/30/12
SacramentoAmador	Grand Island	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional Management Practices per established Management Plan goals	Landowners and growers	LOG	7/1/12	1/31/13
SacramentoAmador	Grand Island	DO and pH	4.1	Effectiveness Evaluation	Conduct follow-up implementation surveys	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	TBD	TBD
SacramentoAmador	Grand Island	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	SVWQC	TBD	TBD
SolanoYolo	Cache Creek	DO and pH	1	Review Regulatory Basis	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	SVWQC; ILRP	1/1/10	6/30/10
SolanoYolo	Cache Creek	DO and pH	2.1	Source ID	Evaluate nutrient applications	Evaluate Nutrient applications and agricultural uses	SVWQC	SVWQC	7/1/10	12/31/10
SolanoYolo	Cache Creek	DO and pH	2.2	Source ID	Evaluate monitoring data	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	SVWQC	1/1/11	6/30/11
SolanoYolo	Cache Creek	DO and pH	2.3	Source ID	Source Evaluation Report	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC, subwatershed coordinator	SVWQC; SWC	7/1/11	9/30/11
SolanoYolo	Cache Creek	DO and pH	3.1	Management Practice Implementation	Survey Coalition members	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	10/1/11	12/31/11
SolanoYolo	Cache Creek	DO and pH	3.2	Management Practice Implementation	Develop list of Management Practices	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	SWC; SVWQC; LOG	1/1/12	3/31/12
SolanoYolo	Cache Creek	DO and pH	3.3	Management Practice Implementation	Set goals and schedule for implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	4/1/12	6/30/12
SolanoYolo	Cache Creek	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional Management Practices per established Management Plan goals	Landowners and growers	LOG	7/1/12	1/31/13
SolanoYolo	Cache Creek	DO and pH	4.1	Effectiveness Evaluation	Conduct follow-up implementation surveys	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	TBD	TBD
SolanoYolo	Cache Creek	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	SVWQC	TBD	TBD

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Subwatershed	Waterbody	Management Plan Category	Task ID	Implementation Element	Management Plan Task	Element Detail	Responsible Agency or Entities	Responsible Entities	Task Start	Task End
SolanoYolo	Willow Slough	DO and pH	1	Review Regulatory Basis	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	SVWQC; ILRP	1/1/10	6/30/10
SolanoYolo	Willow Slough	DO and pH	2.1	Source ID	Evaluate nutrient applications	Evaluate Nutrient applications and agricultural uses	SVWQC	SVWQC	7/1/10	12/31/10
SolanoYolo	Willow Slough	DO and pH	2.2	Source ID	Evaluate monitoring data	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	SVWQC	1/1/11	6/30/11
SolanoYolo	Willow Slough	DO and pH	2.3	Source ID	Source Evaluation Report	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC, subwatershed coordinator	SVWQC; SWC	7/1/11	9/30/11
SolanoYolo	Willow Slough	DO and pH	3.1	Management Practice Implementation	Survey Coalition members	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	10/1/11	12/31/11
SolanoYolo	Willow Slough	DO and pH	3.2	Management Practice Implementation	Develop list of Management Practices	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	SWC; SVWQC; LOG	1/1/12	3/31/12
SolanoYolo	Willow Slough	DO and pH	3.3	Management Practice Implementation	Set goals and schedule for implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	4/1/12	6/30/12
SolanoYolo	Willow Slough	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional Management Practices per established Management Plan goals	Landowners and growers	LOG	7/1/12	1/31/13
SolanoYolo	Willow Slough	DO and pH	4.1	Effectiveness Evaluation	Conduct follow-up implementation surveys	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	TBD	TBD
SolanoYolo	Willow Slough	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	SVWQC	TBD	TBD
UpperFeatherRiver	Spanish Creek	DO and pH	1	Review Regulatory Basis	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	SVWQC; ILRP	1/1/10	6/30/10
UpperFeatherRiver	Spanish Creek	DO and pH	2.05	Source ID	Report UFRW 2008 Special Study results	Review and report results of 2008 Special Studies by UFRW	UFRW, SVWQC	UFRW; SVWQC	5/1/10	6/30/10
UpperFeatherRiver	Spanish Creek	DO and pH	2.1	Source ID	Evaluate nutrient applications	If not resolved by initial Special Studies, evaluate nutrient applications and agricultural uses	SVWQC	SVWQC	7/1/10	12/31/10
UpperFeatherRiver	Spanish Creek	DO and pH	2.2	Source ID	Evaluate monitoring data	If not resolved by initial Special Studies, evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	SVWQC	1/1/11	6/30/11
UpperFeatherRiver	Spanish Creek	DO and pH	2.3	Source ID	Source Evaluation Report	Source Evaluation Report: If not resolved by initial Special Studies, identify and prioritize agricultural and non-agricultural causes	SVWQC, UFRW	SVWQC; UFRW	7/1/11	9/30/11
UpperFeatherRiver	Spanish Creek	DO and pH	3.1	Management Practice Implementation	Survey Coalition members	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	UFRW, Subwatershed coordinator, with assistance from SVWQC	UFRW; SWC; SVWQC	10/1/11	12/31/11
UpperFeatherRiver	Spanish Creek	DO and pH	3.2	Management Practice Implementation	Develop list of Management Practices	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	SWC; SVWQC; LOG	1/1/12	3/31/12
UpperFeatherRiver	Spanish Creek	DO and pH	3.3	Management Practice Implementation	Set goals and schedule for implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, SVWQC	SWC; SVWQC	4/1/12	6/30/12
UpperFeatherRiver	Spanish Creek	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional Management Practices per established Management Plan goals	Landowners and growers	LOG	7/1/12	1/31/13
UpperFeatherRiver	Spanish Creek	DO and pH	4.1	Effectiveness Evaluation	Conduct follow-up implementation surveys	Follow-up surveys for tracking implementation progress	UFRW, Subwatershed coordinator, with assistance from SVWQC	UFRW; SWC; SVWQC	TBD	TBD
UpperFeatherRiver	Spanish Creek	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	SVWQC	TBD	TBD

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Subwatershed	Waterbody	Management Plan Category	Task ID	Implementation Element	Management Plan Task	Element Detail	Responsible Agency or Entities	Responsible Entities	Task Start	Task End
ButteYubaSutter	Lower Honcut Creek	Pathogen Indicators	1	Review Regulatory Basis	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan; Confirm whether REC1 is appropriate use; [Introduce discussion of issue with TIC and ILRP staff]	SVWQC, ILRP Staff	SVWQC; ILRP	1/1/10	12/31/10
ButteYubaSutter	Lower Honcut Creek	Pathogen Indicators	2.1	Source ID	Survey Coalition members	Survey Coalition members in the targeted drainages to inventory for application of animal wastes and for current level of implementation of relevant management practices. Compile matrix of practices and applications.	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	4/1/10	6/30/10
ButteYubaSutter	Lower Honcut Creek	Pathogen Indicators	2.2	Source ID	Develop effectiveness study	Develop coordinated approach to evaluate, estimate, and document the effectiveness of the range of relevant practices. Base relevance on use of practices, potential risks to surface water, known effectiveness of practices. Identify gaps.	SVWQC, CURES, UCCE, with assistance from other "practitioners" and experts	SVWQC	6/1/10	9/30/10
ButteYubaSutter	Lower Honcut Creek	Pathogen Indicators	2.3	Source ID	Implement Effectiveness Study	Develop and implement literature and/or sampling based study to address significant gaps.	SVWQC et al.;	SVWQC	10/1/10	9/30/11
ButteYubaSutter	Lower Honcut Creek	Pathogen Indicators	2.4	Source ID	Source Evaluation and Effectiveness Report	Source Evaluation and Effectiveness Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and effectiveness of relevant management practices.	SVWQC, with assistance from larger group	SVWQC	10/1/11	12/30/11
ButteYubaSutter	Lower Honcut Creek	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of Management Practices	Develop guidance and matrix of recommended Management Practice alternatives specific to pathogens, based on application type, crop, season, and other identified site-specific factors.	SVWQC, CURES, UCCE, with assistance from subwatershed coordinators, landowners and growers	SVWQC; SWC; LOG	11/1/11	12/30/11
ButteYubaSutter	Lower Honcut Creek	Pathogen Indicators	3.3	Management Practice Implementation	Set goals and schedule for implementation	If agricultural applications are identified as a potential source in the drainage based on application inventory survey, set goals and schedule for additional outreach, recommended Management Practice implementation, and effectiveness evaluation.	SVWQC, subwatershed coordinator	SVWQC; SWC	1/1/12	2/29/12
ButteYubaSutter	Lower Honcut Creek	Pathogen Indicators	3.4	Management Practice Implementation	Conduct additional outreach	Conduct additional outreach as needed to achieve targeted Management Practice implementation per established Management Plan goals.	SVWQC, subwatershed coordinator	SVWQC; SWC	3/1/12	TBD
ButteYubaSutter	Lower Honcut Creek	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional practices as needed to achieve per established Management Plan goals.	Landowners and growers	LOG	3/1/12	TBD
ButteYubaSutter	Lower Honcut Creek	Pathogen Indicators	4.1	Effectiveness Evaluation	Conduct implementation tracking surveys	Follow-up surveys for tracking progress toward implementation goals	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	11/1/12	2/28/13
ButteYubaSutter	Lower Honcut Creek	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation. This can be satisfied by the follow-up surveys and the scheduled core and assessment monitoring.	SVWQC	SVWQC	3/1/12	TBD

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Subwatershed	Waterbody	Management Plan Category	Task ID	Implementation Element	Management Plan Task	Element Detail	Responsible Agency or Entities	Responsible Entities	Task Start	Task End
ButteYubaSutter	Gilsizer Slough	Registered Pesticides	1	Review Regulatory Basis	Confirm Regulatory Basis	Confirm regulatory basis establishing the need for the management plan. Discuss with ILRP Staff to confirm that Trigger or WQO applies for uses in water body (aquatic life, MUN). Confirm that discharge prohibition or performance goal applies, if any.	SVWQC, ILRP Staff	SVWQC; ILRP	4/1/10	4/30/10
ButteYubaSutter	Gilsizer Slough	Registered pesticides	2.1	Source ID	Review pesticide application data	Review DPR PUR pesticide application data for 3 most recent years for drainage	SVWQC, Ag Commissioner	SVWQC; AC	5/1/10	5/30/10
ButteYubaSutter	Gilsizer Slough	Registered pesticides	2.2	Source ID	Identify potential sources	Identify agricultural uses and any potential non-agricultural uses in the drainage	SVWQC, subwatershed coordinator, Ag Commissioner	SVWQC; AC	6/1/10	6/30/10
ButteYubaSutter	Gilsizer Slough	Registered pesticides	2.3	Source ID	Determination of likely agricultural sources	Determination of likely agricultural sources of pesticide(s) of concern	SVWQC, subwatershed coordinator, Ag Commissioner, Water Board ILRP	SVWQC; SWC; AC; ILRP	7/1/10	7/31/10
ButteYubaSutter	Gilsizer Slough	Registered Pesticides	2.4	Source ID	Source Evaluation Report	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, percentage of crops from annual crop reports or permit data, pesticide applications, irrigation practices, and current management practices	SVWQC, subwatershed coordinator	SVWQC; SWC	5/1/10	8/31/10
ButteYubaSutter	Gilsizer Slough	Registered Pesticides	3.1	Management Practice Implementation	Survey Coalition members	If agriculture is identified as a potential source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	9/1/10	12/31/10
ButteYubaSutter	Gilsizer Slough	Registered pesticides	3.2	Management Practice Implementation	Develop list of Management Practices	Develop list of prioritized Management Practices specific to pesticide(s) of concern	SVWQC and Subwatershed Coordinator, with assistance from CURES, UCCE, Landowners and growers	SWC; SVWQC; LOG	1/1/11	3/31/11
ButteYubaSutter	Gilsizer Slough	Registered Pesticides	3.3	Management Practice Implementation	Meet with landowners and growers	Conduct meetings or other outreach with individual landowners and growers to discuss exceedances, possible sources, and management plan requirements and goals.	SVWQC, subwatershed coordinator, Ag Commissioner	SVWQC; SWC; AC	1/1/11	3/31/11
ButteYubaSutter	Gilsizer Slough	Registered pesticides	3.4	Management Practice Implementation	Set goals and schedule for implementation	Set goals and schedule for additional outreach, recommended Management Practice implementation, and effectiveness evaluation.	SVWQC, subwatershed coordinator	SVWQC; SWC	4/1/11	5/30/11
ButteYubaSutter	Gilsizer Slough	Registered pesticides	3.5	Management Practice Implementation	Conduct additional outreach	Conduct additional outreach as needed to achieve targeted Management Practice implementation per established Management Plan goals.	SVWQC, subwatershed coordinator	SVWQC; SWC	6/1/11	5/30/13
ButteYubaSutter	Gilsizer Slough	Registered Pesticides	3.6	Management Practice Implementation	Implement additional Management Practices	Implement additional Management Practices per established Management Plan goals	Landowners and growers	LOG	6/1/11	5/30/13
ButteYubaSutter	Gilsizer Slough	Registered pesticides	4.1	Effectiveness Evaluation	Conduct implementation tracking surveys	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	11/1/12	2/28/13
ButteYubaSutter	Gilsizer Slough	Registered pesticides	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	SVWQC	1/1/14	12/31/14

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Subwatershed	Waterbody	Management Plan Category	Task ID	Implementation Element	Management Plan Task	Element Detail	Responsible Agency or Entities	Responsible Entities	Task Start	Task End
ColusaGlenn	Logan Creek	Salinity	1	Review Regulatory Basis	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan. Discuss with ILRP Staff to confirm limiting "sensitive crops" grown in the drainage, "Ag Supply" goal is correct, MUN should apply, and whether a site-specific WQO should apply.	SVWQC, ILRP Staff (assistance with crop info from SWC and LOG)	SVWQC; ILRP	1/1/10	12/31/10
ColusaGlenn	Logan Creek	Salinity	2.1	Source ID	Identify areas of elevated salinity	Review data and identify areas and drainages with elevated salinity	SVWQC, subwatershed coordinator, Ag Commissioners	SVWQC; SWC; AC	1/1/10	6/30/10
ColusaGlenn	Logan Creek	Salinity	2.2	Source ID	Compile information about salt-sensitive crops	Compile information about potentially salt-sensitive crops in drainages with elevated salinity	SVWQC, Ag Commissioners	SVWQC; AC	7/1/10	12/31/10
ColusaGlenn	Logan Creek	Salinity	2.3	Source ID	Source Evaluation Report	Source Evaluation Report: Determine scope of report in coordination with CV-SALTS process	SVWQC, ILRP Staff	SVWQC; ILRP	7/1/10	12/31/10
ColusaGlenn	Logan Creek	Salinity	2.4	Source ID	Source Evaluation Report	Source Evaluation Report: Document salinity source and salt-sensitive crop info (per scope determined above)	SVWQC, ILRP Staff	SVWQC; ILRP	1/1/11	6/30/11
ColusaGlenn	Logan Creek	Salinity	3.1	Management Practice Implementation	Participate in CV-SALTS	Participate as stakeholder in CV-SALTS Process. Bring Ag and ILRP issues to TAC Workgroup.	SVWQC	SVWQC	1/1/09	12/31/12
ColusaGlenn	Logan Creek	Salinity	3.2	Management Practice Implementation	Survey Coalition members	Conduct surveys of Coalition members for current level of implementation of irrigation and salinity control management practices	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	7/1/11	9/30/11
ColusaGlenn	Logan Creek	Salinity	3.3	Management Practice Implementation	Develop list of Management Practices	Develop list of prioritized Management Practices specific to salinity management	Landowners and growers, with assistance from SVWQC, subwatershed coordinator, CURES, UCCE	SWC; SVWQC; LOG	TBD	TBD
ColusaGlenn	Logan Creek	Salinity	3.4	Management Practice Implementation	Set goals and schedule for implementation	Set goals and schedule for implementation of specific additional Management Practices	SVWQC, ILRP Staff, CV-SALTS	SVWQC; ILRP; CVS	TBD	TBD
ColusaGlenn	Logan Creek	Salinity	3.5	Management Practice Implementation	Implement additional Management Practices	Implement additional Management Practices per established Management Plan goals	Landowners and growers	LOG	TBD	TBD
ColusaGlenn	Logan Creek	Salinity	4.1	Effectiveness Evaluation	Conduct follow-up implementation surveys	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	TBD	TBD
ColusaGlenn	Logan Creek	Salinity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	SVWQC	TBD	TBD

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Subwatershed	Waterbody	Management Plan Category	Task ID	Implementation Element	Management Plan Task	Element Detail	Responsible Agency or Entities	Responsible Entities	Task Start	Task End
ButteYubaSutter	Lower Snake River	Toxicity	2.1	Source ID	Evaluate monitoring data	Evaluation of Coalition Monitoring Data	SVWQC	SVWQC	5/1/10	5/30/10
ButteYubaSutter	Lower Snake River	Toxicity	2.2	Source ID	Additional review of pesticide applications	Additional review of pesticide applications	SVWQC	SVWQC	5/1/10	5/30/10
ButteYubaSutter	Lower Snake River	Toxicity	2.3	Source ID	Identify potential sources	Identification of potential agricultural and any non-agricultural sources explaining the exceedances	SVWQC, subwatershed coordinator	SVWQC; SWC	6/1/10	6/30/10
ButteYubaSutter	Lower Snake River	Toxicity	2.4	Source ID	Source Evaluation Report	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, drainage distance to surface water, irrigated acreage by crop or commodity, pesticide application, irrigation practices, and current management practices	SVWQC, subwatershed coordinator	SVWQC; SWC	5/1/10	8/31/10
ButteYubaSutter	Lower Snake River	Toxicity	3.1	Management Practice Implementation	Survey Coalition members	If specific cause identified and agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of management practices relevant to specific cause.	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	9/1/10	12/31/10
ButteYubaSutter	Lower Snake River	Toxicity	3.2	Management Practice Implementation	Develop list of Management Practices	If specific cause identified and agriculture is identified as a source, develop list of prioritized Management Practices specific to cause of toxicity	SVWQC and Subwatershed Coordinator, with assistance from CURES, UCCE, Landowners and growers	SWC; SVWQC; LOG	1/1/11	3/31/11
ButteYubaSutter	Lower Snake River	Toxicity	3.3	Management Practice Implementation	Set goals and schedule for implementation	If specific cause identified and agriculture is identified as a source, set goals and schedule for additional outreach and Management Practice implementation.	SVWQC, subwatershed coordinator	SVWQC; SWC	4/1/11	5/30/11
ButteYubaSutter	Lower Snake River	Toxicity	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional Management Practices per established Management Plan goals	SVWQC, subwatershed coordinator	LOG	6/1/11	5/30/13
ButteYubaSutter	Lower Snake River	Toxicity	4.1	Effectiveness Evaluation	Conduct follow-up implementation surveys	If agriculture is identified as a source and implementation of additional management practices is appropriate, conduct surveys to track implementation progress.	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	11/1/12	2/28/13
ButteYubaSutter	Lower Snake River	Toxicity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation (synoptic with periodic Assessment monitoring requirements).	SVWQC	SVWQC	1/1/14	12/31/14
SolanoYolo	Ulatis Creek	Nutrients	1	Review Regulatory Basis	Review Regulatory Basis	Confirm regulatory basis establishing the need for the management plan. Discuss with ILRP Staff to confirm that MUN use applies in the water body.	SVWQC, ILRP Staff	SVWQC; ILRP	4/1/10	4/30/10
SolanoYolo	Ulatis Creek	Nutrients	2.1	Source ID	Evaluate nutrient sources	Identify and evaluate potential sources, including supply water quality, natural background, non-agricultural discharges, and agricultural inputs.	SVWQC, subwatershed coordinator	SVWQC; SWC	4/1/10	6/30/10
SolanoYolo	Ulatis Creek	Nutrients	2.2	Source ID	Evaluate nutrient applications	Evaluate timing and typical annual agricultural nutrient applications per acre for dominant crop types	SVWQC, subwatershed coordinator	SVWQC; SWC	4/1/10	6/30/10
SolanoYolo	Ulatis Creek	Nutrients	2.3	Source ID	Evaluate monitoring data	Evaluate relevant monitoring data for relationships between nutrient exceedances and timing of source discharges or applications.	SVWQC	SVWQC	7/1/10	8/31/10
SolanoYolo	Ulatis Creek	Nutrients	2.4	Source ID	Source Evaluation Report	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural sources of nutrients.	SVWQC, subwatershed coordinator	SVWQC; SWC	8/1/10	10/31/10
SolanoYolo	Ulatis Creek	Nutrients	3.1	Management Practice Implementation	Survey Coalition members	If agriculture is identified as a source of the exceedances, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	11/1/10	2/28/11
SolanoYolo	Ulatis Creek	Nutrients	3.2	Management Practice Implementation	Develop list of Management Practices	If agriculture is identified as a source, develop list of prioritized Management Practices specific to nutrients	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	SWC; SVWQC; LOG	3/1/11	5/30/11
SolanoYolo	Ulatis Creek	Nutrients	3.3	Management Practice Implementation	Set goals and schedule for implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	5/1/11	6/30/11
SolanoYolo	Ulatis Creek	Nutrients	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional Management Practices per established Management Plan goals	Landowners and growers	LOG	7/1/11	12/31/13
SolanoYolo	Ulatis Creek	Nutrients	4.1	Effectiveness Evaluation	Conduct follow-up implementation surveys	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	11/1/12	2/28/13
SolanoYolo	Ulatis Creek	Nutrients	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation (synoptic with Core and Assessment monitoring).	SVWQC	SVWQC	1/1/12	12/31/13

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Subwatershed	Waterbody	Management Plan Category	Task ID	Implementation Element	Management Plan Task	Element Detail	Responsible Agency or Entities	Responsible Entities	Task Start	Task End
ColusaGlenn	Freshwater Creek	Pathogen Indicators	1	Review Regulatory Basis	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan; Confirm whether REC1 is appropriate use; [Introduce discussion of issue with TIC and ILRP staff]	SVWQC, ILRP Staff	SVWQC; ILRP	1/1/10	12/31/10
ColusaGlenn	Freshwater Creek	Pathogen Indicators	2.1	Source ID	Survey Coalition members	Survey Coalition members in the targeted drainages to inventory for application of animal wastes and for current level of implementation of relevant management practices. Compile matrix of practices and applications.	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	4/1/10	6/30/10
ColusaGlenn	Freshwater Creek	Pathogen Indicators	2.2	Source ID	Develop effectiveness study	Develop coordinated approach to evaluate, estimate, and document the effectiveness of the range of relevant practices. Base relevance on use of practices, potential risks to surface water, known effectiveness of practices. Identify gaps.	SVWQC, CURES, UCCE, with assistance from other "practitioners" and experts	SVWQC	6/1/10	9/30/10
ColusaGlenn	Freshwater Creek	Pathogen Indicators	2.3	Source ID	Implement Effectiveness Study	Develop and implement literature and/or sampling based study to address significant gaps.	SVWQC et al.;	SVWQC	10/1/10	9/30/11
ColusaGlenn	Freshwater Creek	Pathogen Indicators	2.4	Source ID	Source Evaluation and Effectiveness Report	Source Evaluation and Effectiveness Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and effectiveness of relevant management practices.	SVWQC, with assistance from larger group	SVWQC	10/1/11	12/30/11
ColusaGlenn	Freshwater Creek	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of Management Practices	Develop guidance and matrix of recommended Management Practice alternatives specific to pathogens, based on application type, crop, season, and other identified site-specific factors.	SVWQC, CURES, UCCE, with assistance from subwatershed coordinators, landowners and growers	SVWQC; SWC; LOG	11/1/11	12/30/11
ColusaGlenn	Freshwater Creek	Pathogen Indicators	3.3	Management Practice Implementation	Set goals and schedule for implementation	If agricultural applications are identified as a potential source in the drainage based on application inventory survey, set goals and schedule for additional outreach, recommended Management Practice implementation, and effectiveness evaluation.	SVWQC, subwatershed coordinator	SVWQC; SWC	1/1/12	2/29/12
ColusaGlenn	Freshwater Creek	Pathogen Indicators	3.4	Management Practice Implementation	Conduct additional outreach	Conduct additional outreach as needed to achieve targeted Management Practice implementation per established Management Plan goals.	SVWQC, subwatershed coordinator	SVWQC; SWC	3/1/12	TBD
ColusaGlenn	Freshwater Creek	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional practices as needed to achieve per established Management Plan goals.	Landowners and growers	LOG	3/1/12	TBD
ColusaGlenn	Freshwater Creek	Pathogen Indicators	4.1	Effectiveness Evaluation	Conduct implementation tracking surveys	Follow-up surveys for tracking progress toward implementation goals	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	11/1/12	2/28/13
ColusaGlenn	Freshwater Creek	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation. This can be satisfied by the follow-up surveys and the scheduled core and assessment monitoring.	SVWQC	SVWQC	3/1/12	TBD

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Subwatershed	Waterbody	Management Plan Category	Task ID	Implementation Element	Management Plan Task	Element Detail	Responsible Agency or Entities	Responsible Entities	Task Start	Task End
SacramentoAmador	Cosumnes River	Pathogen Indicators	1	Review Regulatory Basis	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan; Confirm whether REC1 is appropriate use; [Introduce discussion of issue with TIC and ILRP staff]	SVWQC, ILRP Staff	SVWQC; ILRP	1/1/10	12/31/10
SacramentoAmador	Cosumnes River	Pathogen Indicators	2.1	Source ID	Survey Coalition members	Survey Coalition members in the targeted drainages to inventory for application of animal wastes and for current level of implementation of relevant management practices. Compile matrix of practices and applications.	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	4/1/10	6/30/10
SacramentoAmador	Cosumnes River	Pathogen Indicators	2.2	Source ID	Develop effectiveness study	Develop coordinated approach to evaluate, estimate, and document the effectiveness of the range of relevant practices. Base relevance on use of practices, potential risks to surface water, known effectiveness of practices. Identify gaps.	SVWQC, CURES, UCCE, with assistance from other "practitioners" and experts	SVWQC	6/1/10	9/30/10
SacramentoAmador	Cosumnes River	Pathogen Indicators	2.3	Source ID	Implement Effectiveness Study	Develop and implement literature and/or sampling based study to address significant gaps.	SVWQC et al.;	SVWQC	10/1/10	9/30/11
SacramentoAmador	Cosumnes River	Pathogen Indicators	2.4	Source ID	Source Evaluation and Effectiveness Report	Source Evaluation and Effectiveness Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and effectiveness of relevant management practices.	SVWQC, with assistance from larger group	SVWQC	10/1/11	12/30/11
SacramentoAmador	Cosumnes River	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of Management Practices	Develop guidance and matrix of recommended Management Practice alternatives specific to pathogens, based on application type, crop, season, and other identified site-specific factors.	SVWQC, CURES, UCCE, with assistance from subwatershed coordinators, landowners and growers	SVWQC; SWC; LOG	11/1/11	12/30/11
SacramentoAmador	Cosumnes River	Pathogen Indicators	3.3	Management Practice Implementation	Set goals and schedule for implementation	If agricultural applications are identified as a potential source in the drainage based on application inventory survey, set goals and schedule for additional outreach, recommended Management Practice implementation, and effectiveness evaluation.	SVWQC, subwatershed coordinator	SVWQC; SWC	1/1/12	2/29/12
SacramentoAmador	Cosumnes River	Pathogen Indicators	3.4	Management Practice Implementation	Conduct additional outreach	Conduct additional outreach as needed to achieve targeted Management Practice implementation per established Management Plan goals.	SVWQC, subwatershed coordinator	SVWQC; SWC	3/1/12	TBD
SacramentoAmador	Cosumnes River	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional practices as needed to achieve per established Management Plan goals.	Landowners and growers	LOG	3/1/12	TBD
SacramentoAmador	Cosumnes River	Pathogen Indicators	4.1	Effectiveness Evaluation	Conduct implementation tracking surveys	Follow-up surveys for tracking progress toward implementation goals	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	11/1/12	2/28/13
SacramentoAmador	Cosumnes River	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation. This can be satisfied by the follow-up surveys and the scheduled core and assessment monitoring.	SVWQC	SVWQC	3/1/12	TBD

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Subwatershed	Waterbody	Management Plan Category	Task ID	Implementation Element	Management Plan Task	Element Detail	Responsible Agency or Entities	Responsible Entities	Task Start	Task End
SacramentoAmador	Grand Island	Pathogen Indicators	1	Review Regulatory Basis	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan; Confirm whether REC1 is appropriate use; [Introduce discussion of issue with TIC and ILRP staff]	SVWQC, ILRP Staff	SVWQC; ILRP	1/1/10	12/31/10
SacramentoAmador	Grand Island	Pathogen Indicators	2.1	Source ID	Survey Coalition members	Survey Coalition members in the targeted drainages to inventory for application of animal wastes and for current level of implementation of relevant management practices. Compile matrix of practices and applications.	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	4/1/10	6/30/10
SacramentoAmador	Grand Island	Pathogen Indicators	2.2	Source ID	Develop effectiveness study	Develop coordinated approach to evaluate, estimate, and document the effectiveness of the range of relevant practices. Base relevance on use of practices, potential risks to surface water, known effectiveness of practices. Identify gaps.	SVWQC, CURES, UCCE, with assistance from other "practitioners" and experts	SVWQC	6/1/10	9/30/10
SacramentoAmador	Grand Island	Pathogen Indicators	2.3	Source ID	Implement Effectiveness Study	Develop and implement literature and/or sampling based study to address significant gaps.	SVWQC et al.;	SVWQC	10/1/10	9/30/11
SacramentoAmador	Grand Island	Pathogen Indicators	2.4	Source ID	Source Evaluation and Effectiveness Report	Source Evaluation and Effectiveness Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and effectiveness of relevant management practices.	SVWQC, with assistance from larger group	SVWQC	10/1/11	12/30/11
SacramentoAmador	Grand Island	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of Management Practices	Develop guidance and matrix of recommended Management Practice alternatives specific to pathogens, based on application type, crop, season, and other identified site-specific factors.	SVWQC, CURES, UCCE, with assistance from subwatershed coordinators, landowners and growers	SVWQC; SWC; LOG	11/1/11	12/30/11
SacramentoAmador	Grand Island	Pathogen Indicators	3.3	Management Practice Implementation	Set goals and schedule for implementation	If agricultural applications are identified as a potential source in the drainage based on application inventory survey, set goals and schedule for additional outreach, recommended Management Practice implementation, and effectiveness evaluation.	SVWQC, subwatershed coordinator	SVWQC; SWC	1/1/12	2/29/12
SacramentoAmador	Grand Island	Pathogen Indicators	3.4	Management Practice Implementation	Conduct additional outreach	Conduct additional outreach as needed to achieve targeted Management Practice implementation per established Management Plan goals.	SVWQC, subwatershed coordinator	SVWQC; SWC	3/1/12	TBD
SacramentoAmador	Grand Island	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional practices as needed to achieve per established Management Plan goals.	Landowners and growers	LOG	3/1/12	TBD
SacramentoAmador	Grand Island	Pathogen Indicators	4.1	Effectiveness Evaluation	Conduct implementation tracking surveys	Follow-up surveys for tracking progress toward implementation goals	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	11/1/12	2/28/13
SacramentoAmador	Grand Island	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation. This can be satisfied by the follow-up surveys and the scheduled core and assessment monitoring.	SVWQC	SVWQC	3/1/12	TBD

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Subwatershed	Waterbody	Management Plan Category	Task ID	Implementation Element	Management Plan Task	Element Detail	Responsible Agency or Entities	Responsible Entities	Task Start	Task End
ShastaTehama	Coyote Creek	Pathogen Indicators	1	Review Regulatory Basis	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan; Confirm whether REC1 is appropriate use; [Introduce discussion of issue with TIC and ILRP staff]	SVWQC, ILRP Staff	SVWQC; ILRP	1/1/10	12/31/10
ShastaTehama	Coyote Creek	Pathogen Indicators	2.1	Source ID	Survey Coalition members	Survey Coalition members in the targeted drainages to inventory for application of animal wastes and for current level of implementation of relevant management practices. Compile matrix of practices and applications.	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	4/1/10	6/30/10
ShastaTehama	Coyote Creek	Pathogen Indicators	2.2	Source ID	Develop effectiveness study	Develop coordinated approach to evaluate, estimate, and document the effectiveness of the range of relevant practices. Base relevance on use of practices, potential risks to surface water, known effectiveness of practices. Identify gaps.	SVWQC, CURES, UCCE, with assistance from other "practitioners" and experts	SVWQC	6/1/10	9/30/10
ShastaTehama	Coyote Creek	Pathogen Indicators	2.3	Source ID	Implement Effectiveness Study	Develop and implement literature and/or sampling based study to address significant gaps.	SVWQC et al.;	SVWQC	10/1/10	9/30/11
ShastaTehama	Coyote Creek	Pathogen Indicators	2.4	Source ID	Source Evaluation and Effectiveness Report	Source Evaluation and Effectiveness Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and effectiveness of relevant management practices.	SVWQC, with assistance from larger group	SVWQC	10/1/11	12/30/11
ShastaTehama	Coyote Creek	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of Management Practices	Develop guidance and matrix of recommended Management Practice alternatives specific to pathogens, based on application type, crop, season, and other identified site-specific factors.	SVWQC, CURES, UCCE, with assistance from subwatershed coordinators, landowners and growers	SVWQC; SWC; LOG	11/1/11	12/30/11
ShastaTehama	Coyote Creek	Pathogen Indicators	3.3	Management Practice Implementation	Set goals and schedule for implementation	If agricultural applications are identified as a potential source in the drainage based on application inventory survey, set goals and schedule for additional outreach, recommended Management Practice implementation, and effectiveness evaluation.	SVWQC, subwatershed coordinator	SVWQC; SWC	1/1/12	2/29/12
ShastaTehama	Coyote Creek	Pathogen Indicators	3.4	Management Practice Implementation	Conduct additional outreach	Conduct additional outreach as needed to achieve targeted Management Practice implementation per established Management Plan goals.	SVWQC, subwatershed coordinator	SVWQC; SWC	3/1/12	TBD
ShastaTehama	Coyote Creek	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional practices as needed to achieve per established Management Plan goals.	Landowners and growers	LOG	3/1/12	TBD
ShastaTehama	Coyote Creek	Pathogen Indicators	4.1	Effectiveness Evaluation	Conduct implementation tracking surveys	Follow-up surveys for tracking progress toward implementation goals	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	11/1/12	2/28/13
ShastaTehama	Coyote Creek	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation. This can be satisfied by the follow-up surveys and the scheduled core and assessment monitoring.	SVWQC	SVWQC	3/1/12	TBD

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Subwatershed	Waterbody	Management Plan Category	Task ID	Implementation Element	Management Plan Task	Element Detail	Responsible Agency or Entities	Responsible Entities	Task Start	Task End
SolanoYolo	Shag Slough	Pathogen Indicators	1	Review Regulatory Basis	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan; Confirm whether REC1 is appropriate use; [Introduce discussion of issue with TIC and ILRP staff]	SVWQC, ILRP Staff	SVWQC; ILRP	1/1/10	12/31/10
SolanoYolo	Shag Slough	Pathogen Indicators	2.1	Source ID	Survey Coalition members	Survey Coalition members in the targeted drainages to inventory for application of animal wastes and for current level of implementation of relevant management practices. Compile matrix of practices and applications.	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	4/1/10	6/30/10
SolanoYolo	Shag Slough	Pathogen Indicators	2.2	Source ID	Develop effectiveness study	Develop coordinated approach to evaluate, estimate, and document the effectiveness of the range of relevant practices. Base relevance on use of practices, potential risks to surface water, known effectiveness of practices. Identify gaps.	SVWQC, CURES, UCCE, with assistance from other "practitioners" and experts	SVWQC	6/1/10	9/30/10
SolanoYolo	Shag Slough	Pathogen Indicators	2.3	Source ID	Implement Effectiveness Study	Develop and implement literature and/or sampling based study to address significant gaps.	SVWQC et al.;	SVWQC	10/1/10	9/30/11
SolanoYolo	Shag Slough	Pathogen Indicators	2.4	Source ID	Source Evaluation and Effectiveness Report	Source Evaluation and Effectiveness Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and effectiveness of relevant management practices.	SVWQC, with assistance from larger group	SVWQC	10/1/11	12/30/11
SolanoYolo	Shag Slough	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of Management Practices	Develop guidance and matrix of recommended Management Practice alternatives specific to pathogens, based on application type, crop, season, and other identified site-specific factors.	SVWQC, CURES, UCCE, with assistance from subwatershed coordinators, landowners and growers	SVWQC; SWC; LOG	11/1/11	12/30/11
SolanoYolo	Shag Slough	Pathogen Indicators	3.3	Management Practice Implementation	Set goals and schedule for implementation	If agricultural applications are identified as a potential source in the drainage based on application inventory survey, set goals and schedule for additional outreach, recommended Management Practice implementation, and effectiveness evaluation.	SVWQC, subwatershed coordinator	SVWQC; SWC	1/1/12	2/29/12
SolanoYolo	Shag Slough	Pathogen Indicators	3.4	Management Practice Implementation	Conduct additional outreach	Conduct additional outreach as needed to achieve targeted Management Practice implementation per established Management Plan goals.	SVWQC, subwatershed coordinator	SVWQC; SWC	3/1/12	TBD
SolanoYolo	Shag Slough	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional practices as needed to achieve per established Management Plan goals.	Landowners and growers	LOG	3/1/12	TBD
SolanoYolo	Shag Slough	Pathogen Indicators	4.1	Effectiveness Evaluation	Conduct implementation tracking surveys	Follow-up surveys for tracking progress toward implementation goals	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	11/1/12	2/28/13
SolanoYolo	Shag Slough	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation. This can be satisfied by the follow-up surveys and the scheduled core and assessment monitoring.	SVWQC	SVWQC	3/1/12	TBD

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Subwatershed	Waterbody	Management Plan Category	Task ID	Implementation Element	Management Plan Task	Element Detail	Responsible Agency or Entities	Responsible Entities	Task Start	Task End
ButteYubaSutter	Lower Snake Rive	Registered Pesticides	1	Review Regulatory Basis	Confirm Regulatory Basis	Confirm regulatory basis establishing the need for the management plan. Discuss with ILRP Staff to confirm that Trigger or WQO applies for uses in water body (aquatic life, MUN). Confirm that discharge prohibition or performance goal applies, if any.	SVWQC, ILRP Staff	SVWQC; ILRP	4/1/10	4/30/10
ButteYubaSutter	Lower Snake Rive	Registered pesticides	2.1	Source ID	Review pesticide application data	Review DPR PUR pesticide application data for 3 most recent years for drainage	SVWQC, Ag Commissioner	SVWQC; AC	5/1/10	5/30/10
ButteYubaSutter	Lower Snake Rive	Registered pesticides	2.2	Source ID	Identify potential sources	Identify agricultural uses and any potential non-agricultural uses in the drainage	SVWQC, subwatershed coordinator, Ag Commissioner	SVWQC; AC	6/1/10	6/30/10
ButteYubaSutter	Lower Snake Rive	Registered pesticides	2.3	Source ID	Determination of likely agricultural sources	Determination of likely agricultural sources of pesticide(s) of concern	SVWQC, subwatershed coordinator, Ag Commissioner, Water Board ILRP	SVWQC; SWC; AC; ILRP	7/1/10	7/31/10
ButteYubaSutter	Lower Snake Rive	Registered Pesticides	2.4	Source ID	Source Evaluation Report	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, percentage of crops from annual crop reports or permit data, pesticide applications, irrigation practices, and current management practices	SVWQC, subwatershed coordinator	SVWQC; SWC	5/1/10	8/31/10
ButteYubaSutter	Lower Snake Rive	Registered Pesticides	3.1	Management Practice Implementation	Survey Coalition members	If agriculture is identified as a potential source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	9/1/10	12/31/10
ButteYubaSutter	Lower Snake Rive	Registered pesticides	3.2	Management Practice Implementation	Develop list of Management Practices	Develop list of prioritized Management Practices specific to pesticide(s) of concern	SVWQC and Subwatershed Coordinator, with assistance from CURES, UCCE, Landowners and growers	SWC; SVWQC; LOG	1/1/11	3/31/11
ButteYubaSutter	Lower Snake Rive	Registered Pesticides	3.3	Management Practice Implementation	Meet with landowners and growers	Conduct meetings or other outreach with individual landowners and growers to discuss exceedances, possible sources, and management plan requirements and goals.	SVWQC, subwatershed coordinator, Ag Commissioner	SVWQC; SWC; AC	1/1/11	3/31/11
ButteYubaSutter	Lower Snake Rive	Registered pesticides	3.4	Management Practice Implementation	Set goals and schedule for implementation	Set goals and schedule for additional outreach, recommended Management Practice implementation, and effectiveness evaluation.	SVWQC, subwatershed coordinator	SVWQC; SWC	4/1/11	5/30/11
ButteYubaSutter	Lower Snake Rive	Registered pesticides	3.5	Management Practice Implementation	Conduct additional outreach	Conduct additional outreach as needed to achieve targeted Management Practice implementation per established Management Plan goals.	SVWQC, subwatershed coordinator	SVWQC; SWC	6/1/11	5/30/13
ButteYubaSutter	Lower Snake Rive	Registered Pesticides	3.6	Management Practice Implementation	Implement additional Management Practices	Implement additional Management Practices per established Management Plan goals	Landowners and growers	LOG	6/1/11	5/30/13
ButteYubaSutter	Lower Snake Rive	Registered pesticides	4.1	Effectiveness Evaluation	Conduct implementation tracking surveys	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	11/1/12	2/28/13
ButteYubaSutter	Lower Snake Rive	Registered pesticides	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	SVWQC	1/1/14	12/31/14

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Subwatershed	Waterbody	Management Plan Category	Task ID	Implementation Element	Management Plan Task	Element Detail	Responsible Agency or Entities	Responsible Entities	Task Start	Task End
SolanoYolo	Willow Slough	Registered Pesticides	1	Review Regulatory Basis	Confirm Regulatory Basis	Confirm regulatory basis establishing the need for the management plan. Discuss with ILRP Staff to confirm that Trigger or WQO applies for uses in water body (aquatic life, MUN). Confirm that discharge prohibition or performance goal applies, if any.	SVWQC, ILRP Staff	SVWQC; ILRP	4/1/10	4/30/10
SolanoYolo	Willow Slough	Registered pesticides	2.1	Source ID	Review pesticide application data	Review DPR PUR pesticide application data for 3 most recent years for drainage	SVWQC, Ag Commissioner	SVWQC; AC	5/1/10	5/30/10
SolanoYolo	Willow Slough	Registered pesticides	2.2	Source ID	Identify potential sources	Identify agricultural uses and any potential non-agricultural uses in the drainage	SVWQC, subwatershed coordinator, Ag Commissioner	SVWQC; AC	6/1/10	6/30/10
SolanoYolo	Willow Slough	Registered pesticides	2.3	Source ID	Determination of likely agricultural sources	Determination of likely agricultural sources of pesticide(s) of concern	SVWQC, subwatershed coordinator, Ag Commissioner, Water Board ILRP	SVWQC; SWC; AC; ILRP	7/1/10	7/31/10
SolanoYolo	Willow Slough	Registered Pesticides	2.4	Source ID	Source Evaluation Report	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, percentage of crops from annual crop reports or permit data, pesticide applications, irrigation practices, and current management practices	SVWQC, subwatershed coordinator	SVWQC; SWC	5/1/10	8/31/10
SolanoYolo	Willow Slough	Registered Pesticides	3.1	Management Practice Implementation	Survey Coalition members	If agriculture is identified as a potential source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	9/1/10	12/31/10
SolanoYolo	Willow Slough	Registered pesticides	3.2	Management Practice Implementation	Develop list of Management Practices	Develop list of prioritized Management Practices specific to pesticide(s) of concern	SVWQC and Subwatershed Coordinator, with assistance from CURES, UCCE, Landowners and growers	SWC; SVWQC; LOG	1/1/11	3/31/11
SolanoYolo	Willow Slough	Registered Pesticides	3.3	Management Practice Implementation	Meet with landowners and growers	Conduct meetings or other outreach with individual landowners and growers to discuss exceedances, possible sources, and management plan requirements and goals.	SVWQC, subwatershed coordinator, Ag Commissioner	SVWQC; SWC; AC	1/1/11	3/31/11
SolanoYolo	Willow Slough	Registered pesticides	3.4	Management Practice Implementation	Set goals and schedule for implementation	Set goals and schedule for additional outreach, recommended Management Practice implementation, and effectiveness evaluation.	SVWQC, subwatershed coordinator	SVWQC; SWC	4/1/11	5/30/11
SolanoYolo	Willow Slough	Registered pesticides	3.5	Management Practice Implementation	Conduct additional outreach	Conduct additional outreach as needed to achieve targeted Management Practice implementation per established Management Plan goals.	SVWQC, subwatershed coordinator	SVWQC; SWC	6/1/11	5/30/13
SolanoYolo	Willow Slough	Registered Pesticides	3.6	Management Practice Implementation	Implement additional Management Practices	Implement additional Management Practices per established Management Plan goals	Landowners and growers	LOG	6/1/11	5/30/13
SolanoYolo	Willow Slough	Registered pesticides	4.1	Effectiveness Evaluation	Conduct implementation tracking surveys	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	11/1/12	2/28/13
SolanoYolo	Willow Slough	Registered pesticides	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	SVWQC	1/1/14	12/31/14

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Subwatershed	Waterbody	Management Plan Category	Task ID	Implementation Element	Management Plan Task	Element Detail	Responsible Agency or Entities	Responsible Entities	Task Start	Task End
ColusaGlenn	Stony Creek	Toxicity	2.1	Source ID	Evaluate monitoring data	Evaluation of Coalition Monitoring Data	SVWQC	SVWQC	5/1/10	5/30/10
ColusaGlenn	Stony Creek	Toxicity	2.2	Source ID	Additional review of pesticide applications	Additional review of pesticide applications	SVWQC	SVWQC	5/1/10	5/30/10
ColusaGlenn	Stony Creek	Toxicity	2.3	Source ID	Identify potential sources	Identification of potential agricultural and any non-agricultural sources explaining the exceedances	SVWQC, subwatershed coordinator	SVWQC; SWC	6/1/10	6/30/10
ColusaGlenn	Stony Creek	Toxicity	2.4	Source ID	Source Evaluation Report	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, drainage distance to surface water, irrigated acreage by crop or commodity, pesticide application, irrigation practices, and current management practices	SVWQC, subwatershed coordinator	SVWQC; SWC	5/1/10	8/31/10
ColusaGlenn	Stony Creek	Toxicity	3.1	Management Practice Implementation	Survey Coalition members	If specific cause identified and agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of management practices relevant to specific cause.	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	9/1/10	12/31/10
ColusaGlenn	Stony Creek	Toxicity	3.2	Management Practice Implementation	Develop list of Management Practices	If specific cause identified and agriculture is identified as a source, develop list of prioritized Management Practices specific to cause of toxicity	SVWQC and Subwatershed Coordinator, with assistance from CURES, UCCE, Landowners and growers	SWC; SVWQC; LOG	1/1/11	3/31/11
ColusaGlenn	Stony Creek	Toxicity	3.3	Management Practice Implementation	Set goals and schedule for implementation	If specific cause identified and agriculture is identified as a source, set goals and schedule for additional outreach and Management Practice implementation.	SVWQC, subwatershed coordinator	SVWQC; SWC	4/1/11	5/30/11
ColusaGlenn	Stony Creek	Toxicity	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional Management Practices per established Management Plan goals	SVWQC, subwatershed coordinator	LOG	6/1/11	5/30/13
ColusaGlenn	Stony Creek	Toxicity	4.1	Effectiveness Evaluation	Conduct follow-up implementation surveys	If agriculture is identified as a source and implementation of additional management practices is appropriate, conduct surveys to track implementation progress.	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	11/1/12	2/28/13
ColusaGlenn	Stony Creek	Toxicity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation (synoptic with periodic Assessment monitoring requirements).	SVWQC	SVWQC	1/1/14	12/31/14
SolanoYolo	Cache Creek	Toxicity	2.1	Source ID	Evaluate monitoring data	Evaluation of Coalition Monitoring Data	SVWQC	SVWQC	5/1/10	5/30/10
SolanoYolo	Cache Creek	Toxicity	2.2	Source ID	Additional review of pesticide applications	Additional review of pesticide applications	SVWQC	SVWQC	5/1/10	5/30/10
SolanoYolo	Cache Creek	Toxicity	2.3	Source ID	Identify potential sources	Identification of potential agricultural and any non-agricultural sources explaining the exceedances	SVWQC, subwatershed coordinator	SVWQC; SWC	6/1/10	6/30/10
SolanoYolo	Cache Creek	Toxicity	2.4	Source ID	Source Evaluation Report	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, drainage distance to surface water, irrigated acreage by crop or commodity, pesticide application, irrigation practices, and current management practices	SVWQC, subwatershed coordinator	SVWQC; SWC	5/1/10	8/31/10
SolanoYolo	Cache Creek	Toxicity	3.1	Management Practice Implementation	Survey Coalition members	If specific cause identified and agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of management practices relevant to specific cause.	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	9/1/10	12/31/10
SolanoYolo	Cache Creek	Toxicity	3.2	Management Practice Implementation	Develop list of Management Practices	If specific cause identified and agriculture is identified as a source, develop list of prioritized Management Practices specific to cause of toxicity	SVWQC and Subwatershed Coordinator, with assistance from CURES, UCCE, Landowners and growers	SWC; SVWQC; LOG	1/1/11	3/31/11
SolanoYolo	Cache Creek	Toxicity	3.3	Management Practice Implementation	Set goals and schedule for implementation	If specific cause identified and agriculture is identified as a source, set goals and schedule for additional outreach and Management Practice implementation.	SVWQC, subwatershed coordinator	SVWQC; SWC	4/1/11	5/30/11
SolanoYolo	Cache Creek	Toxicity	3.4	Management Practice Implementation	Implement additional Management Practices	Implement additional Management Practices per established Management Plan goals	SVWQC, subwatershed coordinator	LOG	6/1/11	5/30/13
SolanoYolo	Cache Creek	Toxicity	4.1	Effectiveness Evaluation	Conduct follow-up implementation surveys	If agriculture is identified as a source and implementation of additional management practices is appropriate, conduct surveys to track implementation progress.	Subwatershed coordinator, with assistance from SVWQC	SWC; SVWQC	11/1/12	2/28/13
SolanoYolo	Cache Creek	Toxicity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring	Conduct effectiveness monitoring for tracking goals established for implementation (synoptic with periodic Assessment monitoring requirements).	SVWQC	SVWQC	1/1/14	12/31/14

TABLE 9A 2010 Mgt Plan Task Table from Ongoing Management Plans

Subwatershed	Management Plan Category	Implementation Element	Management Plan Task	Waterbody	Responsible Entities	Total			
UpperFeatherRiver	Pathogen Indicators	Management Practice Implementation	Set goals and schedule for implementation	Indian Creek	SVWQC; UFRW	March 31, 2010			
				Spanish Creek	SVWQC; UFRW	March 31, 2010			
	DO and pH	Source ID	Evaluate monitoring data	Indian Creek	SVWQC	June 30, 2010			
				Middle Fork Feather River	SVWQC	June 30, 2010			
				Source Evaluation Report	Indian Creek	SVWQC; UFRW	September 30, 2010		
				Middle Fork Feather River	SVWQC; UFRW	September 30, 2010			
ColusaGlenn	Registered Pesticides	Management Practice Implementation	Develop list of Management Practices	Walker Creek	SWC; SVWQC; LOG	March 31, 2010			
				Meet with landowners and growers	Walker Creek	SVWQC; SWC; AC	June 30, 2010		
					Walker Creek	SWC; SVWQC	June 30, 2010		
	DO and pH	Review Regulatory Basis	Review Regulatory Basis	Colusa Basin Drain	SVWQC; ILRP	June 30, 2010			
				Freshwater Creek	SVWQC; ILRP	June 30, 2010			
				Stone Corral Creek	SVWQC; ILRP	June 30, 2010			
				Stony Creek	SVWQC; ILRP	June 30, 2010			
				Sycamore Slough	SVWQC; ILRP	June 30, 2010			
				Walker Creek	SVWQC; ILRP	June 30, 2010			
				Source ID	Evaluate nutrient applications	Colusa Basin Drain	SVWQC	December 30, 2010	
						Freshwater Creek	SVWQC	December 30, 2010	
						Stone Corral Creek	SVWQC	December 30, 2010	
						Stony Creek	SVWQC	December 30, 2010	
						Sycamore Slough	SVWQC	December 30, 2010	
						Walker Creek	SVWQC	December 30, 2010	
				Pathogen Indicators	Management Practice Implementation	Survey Coalition members	Colusa Basin Drain	SWC; SVWQC	June 30, 2010
							Logan Creek	SWC; SVWQC	June 30, 2010
							Lurline Creek	SWC; SVWQC	June 30, 2010
	Stone Corral Creek	SWC; SVWQC	June 30, 2010						
	Sycamore Slough	SWC; SVWQC	June 30, 2010						
	Walker Creek	SWC; SVWQC	June 30, 2010						
	Source ID	Survey Coalition members	Colusa Basin Drain				SWC; SVWQC	June 30, 2010	
			Logan Creek				SWC; SVWQC	June 30, 2010	
			Lurline Creek				SWC; SVWQC	June 30, 2010	
			Stone Corral Creek				SWC; SVWQC	June 30, 2010	
			Sycamore Slough				SWC; SVWQC	June 30, 2010	
			Walker Creek				SWC; SVWQC	June 30, 2010	
	Source Evaluation Report		Colusa Basin Drain		SVWQC	September 30, 2010			
			Logan Creek		SVWQC	September 30, 2010			
			Lurline Creek		SVWQC	September 30, 2010			
			Stone Corral Creek		SVWQC	September 30, 2010			
			Sycamore Slough		SVWQC	September 30, 2010			
			Walker Creek		SVWQC	September 30, 2010			
			Conduct field survey			Colusa Basin Drain	SWC; SVWQC	September 30, 2010	
						Logan Creek	SWC; SVWQC	September 30, 2010	
						Lurline Creek	SWC; SVWQC	September 30, 2010	
	Stone Corral Creek	SWC; SVWQC				September 30, 2010			
	Sycamore Slough	SWC; SVWQC				September 30, 2010			
	Walker Creek	SWC; SVWQC				September 30, 2010			
	Review Regulatory Basis	Review Regulatory Basis	Colusa Basin Drain		SVWQC; ILRP	December 31, 2010			
			Logan Creek		SVWQC; ILRP	December 31, 2010			
			Lurline Creek		SVWQC; ILRP	December 31, 2010			
			Stone Corral Creek	SVWQC; ILRP	December 31, 2010				
			Sycamore Slough	SVWQC; ILRP	December 31, 2010				
			Walker Creek	SVWQC; ILRP	December 31, 2010				
Legacy Pesticides	Source ID	Source Evaluation Report	Freshwater Creek	SVWQC	June 30, 2010				
			Lurline Creek	SVWQC	June 30, 2010				
			Sycamore Slough	SVWQC	June 30, 2010				

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Subwatershed	Management Plan Category	Implementation Element	Management Plan Task	Waterbody	Responsible Entities	Total	
	Management Practice Implementation		Survey Coalition members	Freshwater Creek	SWC; SVWQC	September 30, 2010	
				Lurline Creek	SWC; SVWQC	September 30, 2010	
				Sycamore Slough	SWC; SVWQC	September 30, 2010	
			Set goals and schedule for implementation	Freshwater Creek	SWC; SVWQC	December 31, 2010	
				Lurline Creek	SWC; SVWQC	December 31, 2010	
				Sycamore Slough	SWC; SVWQC	December 31, 2010	
			Develop list of Management Practices	Freshwater Creek	SWC; SVWQC; LOG	December 31, 2010	
				Lurline Creek	SWC; SVWQC; LOG	December 31, 2010	
				Sycamore Slough	SWC; SVWQC; LOG	December 31, 2010	
	Salinity	Review Regulatory Basis	Review Regulatory Basis		Colusa Basin Drain	SVWQC; ILRP	December 31, 2010
					Freshwater Creek	SVWQC; ILRP	December 31, 2010
					Lurline Creek	SVWQC; ILRP	December 31, 2010
					Stone Corral Creek	SVWQC; ILRP	December 31, 2010
					Sycamore Slough	SVWQC; ILRP	December 31, 2010
					Colusa Basin Drain	SVWQC; SWC; AC	June 30, 2010
		Source ID	Identify areas of elevated salinity		Freshwater Creek	SVWQC; SWC; AC	June 30, 2010
					Lurline Creek	SVWQC; SWC; AC	June 30, 2010
					Stone Corral Creek	SVWQC; SWC; AC	June 30, 2010
					Sycamore Slough	SVWQC; SWC; AC	June 30, 2010
				Compile information about salt-sensitive crops	Colusa Basin Drain	SVWQC; AC	December 31, 2010
					Freshwater Creek	SVWQC; AC	December 31, 2010
			Lurline Creek	SVWQC; AC	December 31, 2010		
			Stone Corral Creek	SVWQC; AC	December 31, 2010		
			Sycamore Slough	SVWQC; AC	December 31, 2010		
		Source Evaluation Report		Colusa Basin Drain	SVWQC; ILRP	December 31, 2010	
				Freshwater Creek	SVWQC; ILRP	December 31, 2010	
				Lurline Creek	SVWQC; ILRP	December 31, 2010	
			Stone Corral Creek	SVWQC; ILRP	December 31, 2010		
			Sycamore Slough	SVWQC; ILRP	December 31, 2010		
			Walker Creek	SWC; SVWQC; LOG	March 31, 2010		
Toxicity	Management Practice Implementation	Develop list of Management Practices	Walker Creek	SWC; SVWQC; LOG	June 30, 2010		
		Set goals and schedule for implementation	Walker Creek	SWC; SVWQC	June 30, 2010		
		Implement additional Management Practices	Stony Creek	SWC; SVWQC	December 31, 2010		
EIDorado	Toxicity	Management Practice Implementation	Develop list of Management Practices	Coon Hollow Creek	SWC; SVWQC; LOG	March 31, 2010	
			Set goals and schedule for implementation	Coon Hollow Creek	SVWQC; SWC	June 30, 2010	
	Pathogen Indicators	Management Practice Implementation	Survey Coalition members	North Canyon Creek	SVWQC; SWC	June 30, 2010	
			Source ID	Survey Coalition members	North Canyon Creek	SVWQC	June 30, 2010
			Source Evaluation Report	North Canyon Creek	SVWQC	September 30, 2010	
	Review Regulatory Basis	Review Regulatory Basis		North Canyon Creek	SVWQC; ILRP	December 31, 2010	
			Source ID	Source Evaluation Report	Coon Hollow Creek	SVWQC	June 30, 2010
				Source Evaluation Report	North Canyon Creek	SVWQC	June 30, 2010
	Legacy Pesticides	Management Practice Implementation	Survey Coalition members		Coon Hollow Creek	SWC; SVWQC	September 30, 2010
					North Canyon Creek	SWC; SVWQC	September 30, 2010
					Coon Hollow Creek	SWC; SVWQC	December 31, 2010
		Set goals and schedule for implementation		North Canyon Creek	SWC; SVWQC	December 31, 2010	
				Coon Hollow Creek	SWC; SVWQC; LOG	December 31, 2010	
				North Canyon Creek	SWC; SVWQC; LOG	December 31, 2010	
	LakeNapa	Pathogen Indicators	Management Practice Implementation	Survey Coalition members	Capell Creek	SWC; SVWQC	June 30, 2010
				McGaugh Slough	SWC; SVWQC	June 30, 2010	
Source ID				Survey Coalition members	Capell Creek	SWC; SVWQC	June 30, 2010
				McGaugh Slough	SWC; SVWQC	June 30, 2010	
Source Evaluation Report				Capell Creek	SVWQC	September 30, 2010	
				McGaugh Slough	SVWQC	September 30, 2010	
			Conduct field survey	Capell Creek	SWC; SVWQC	September 30, 2010	
				McGaugh Slough	SWC; SVWQC	September 30, 2010	

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Subwatershed	Management Plan Category	Implementation Element	Management Plan Task	Waterbody	Responsible Entities	Total	
		Review Regulatory Basis	Review Regulatory Basis	Capell Creek	SVWQC; ILRP	December 31, 2010	
				McGaugh Slough	SVWQC; ILRP	December 31, 2010	
PitRiver	DO and pH	Review Regulatory Basis	Review Regulatory Basis	Fall River	SVWQC; ILRP	June 30, 2010	
				Pit River	SVWQC; ILRP	June 30, 2010	
		Source ID	Evaluate nutrient applications	Fall River	SVWQC	December 30, 2010	
				Pit River	SVWQC	December 30, 2010	
	Pathogen Indicators	Management Practice Implementation	Survey Coalition members	Pit River	SWC; SVWQC	June 30, 2010	
		Source ID	Survey Coalition members	Pit River	SWC; SVWQC	June 30, 2010	
			Source Evaluation Report	Pit River	SVWQC; SWC	September 30, 2010	
			Conduct field survey	Pit River	SWC; SVWQC	September 30, 2010	
PNSSNS	Registered Pesticides	Review Regulatory Basis	Review Regulatory Basis	Pit River	SVWQC; ILRP	December 31, 2010	
		Management Practice Implementation	Develop list of Management Practices	Coon Creek	SWC; SVWQC; LOG	March 31, 2010	
			Meet with landowners and growers	Coon Creek	SWC; SVWQC; AC	June 30, 2010	
			Set goals and schedule for implementation	Coon Creek	SWC; SVWQC	June 30, 2010	
	DO and pH	Review Regulatory Basis	Review Regulatory Basis	Coon Creek	SVWQC; ILRP	June 30, 2010	
		Source ID	Evaluate nutrient applications	Coon Creek	SVWQC	December 30, 2010	
	Pathogen Indicators	Management Practice Implementation	Survey Coalition members	Coon Creek	SWC; SVWQC	June 30, 2010	
		Source ID	Survey Coalition members	Coon Creek	SWC; SVWQC	June 30, 2010	
			Source Evaluation Report	Coon Creek	SVWQC	September 30, 2010	
			Conduct field survey	Coon Creek	SWC; SVWQC	September 30, 2010	
	SacramentoAmador	DO and pH	Review Regulatory Basis	Review Regulatory Basis	Coon Creek	SVWQC; ILRP	December 31, 2010
			Review Regulatory Basis	Review Regulatory Basis	Cosumnes River	SVWQC; ILRP	June 30, 2010
				Dry Creek	SVWQC; ILRP	June 30, 2010	
				Laguna Creek	SVWQC; ILRP	June 30, 2010	
		Source ID	Evaluate nutrient applications	Cosumnes River	SVWQC	December 30, 2010	
				Dry Creek	SVWQC	December 30, 2010	
				Laguna Creek	SVWQC	December 30, 2010	
Legacy Pesticides		Source ID	Source Evaluation Report	Grand Island Drain	SVWQC	June 30, 2010	
		Management Practice Implementation	Survey Coalition members	Grand Island Drain	SWC; SVWQC	September 30, 2010	
			Set goals and schedule for implementation	Grand Island Drain	SWC; SVWQC	December 31, 2010	
			Develop list of Management Practices	Grand Island Drain	SWC; SVWQC; LOG	December 31, 2010	
Pathogen Indicators		Management Practice Implementation	Survey Coalition members	Dry Creek	SWC; SVWQC	June 30, 2010	
				Laguna Creek	SWC; SVWQC	June 30, 2010	
		Source ID	Survey Coalition members	Dry Creek	SWC; SVWQC	June 30, 2010	
				Laguna Creek	SWC; SVWQC	June 30, 2010	
			Source Evaluation Report	Dry Creek	SVWQC	September 30, 2010	
				Laguna Creek	SVWQC	September 30, 2010	
			Conduct field survey	Dry Creek	SVWQC	September 30, 2010	
				Laguna Creek	SVWQC	September 30, 2010	
Review Regulatory Basis		Review Regulatory Basis	Review Regulatory Basis	Dry Creek	SVWQC; ILRP	December 31, 2010	
				Laguna Creek	SVWQC; ILRP	December 31, 2010	
		Review Regulatory Basis	Review Regulatory Basis	Dry Creek	SVWQC; ILRP	December 31, 2010	
				Grand Island Drain	SVWQC; ILRP	December 31, 2010	
		Source ID	Identify areas of elevated salinity	Dry Creek	SVWQC; SWC; AC	June 30, 2010	
				Grand Island Drain	SVWQC; SWC; AC	June 30, 2010	
Compile information about salt-sensitive crops				Dry Creek	SVWQC; AC	December 31, 2010	
				Grand Island Drain	SVWQC; AC	December 31, 2010	
		Source Evaluation Report	Source Evaluation Report	Dry Creek	SVWQC; ILRP	December 31, 2010	
			Grand Island Drain	SVWQC; ILRP	December 31, 2010		
Toxicity	Source ID	Additional review of pesticide applications	Cosumnes River	SVWQC	June 30, 2010		
		Evaluate monitoring data	Cosumnes River	SVWQC	June 30, 2010		
		Identify potential sources	Cosumnes River	SVWQC; SWC	June 30, 2010		
		Source Evaluation Report	Cosumnes River	SVWQC; SWC	September 30, 2010		
	Management Practice Implementation	Develop list of Management Practices	Laguna Creek	SWC; SVWQC; LOG	March 31, 2010		

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Subwatershed	Management Plan Category	Implementation Element	Management Plan Task	Waterbody	Responsible Entities	Total	
			Set goals and schedule for implementation	Laguna Creek	SVWQC; SWC	June 30, 2010	
			Survey Coalition members	Cosumnes River	SWC; SVWQC	December 31, 2010	
ShastaTehama	DO and pH	Review Regulatory Basis	Review Regulatory Basis	Anderson Creek	SVWQC; ILRP	June 30, 2010	
				Coyote Creek	SVWQC; ILRP	June 30, 2010	
		Source ID	Evaluate nutrient applications	Anderson Creek	SVWQC	December 30, 2010	
				Coyote Creek	SVWQC	December 30, 2010	
	Pathogen Indicators	Management Practice Implementation	Survey Coalition members	Anderson Creek	SWC; SVWQC	June 30, 2010	
				Burch Creek	SWC; SVWQC	June 30, 2010	
			Source ID	Survey Coalition members	Anderson Creek	SWC; SVWQC	June 30, 2010
					Burch Creek	SWC; SVWQC	June 30, 2010
			Source Evaluation Report	Anderson Creek	SVWQC	September 30, 2010	
					Burch Creek	SVWQC	September 30, 2010
			Conduct field survey	Anderson Creek	SWC; SVWQC	September 30, 2010	
				Burch Creek	SWC; SVWQC	September 30, 2010	
	Review Regulatory Basis	Review Regulatory Basis	Anderson Creek	SVWQC; ILRP	December 31, 2010		
			Burch Creek	SVWQC; ILRP	December 31, 2010		
SolanoYolo	Registered Pesticides	Effectiveness Evaluation	Conduct follow-up implementation surveys	Willow Slough	SWC; SVWQC	March 31, 2010	
		Management Practice Implementation	Develop list of Management Practices	Ulatis Creek	SWC; SVWQC; LOG	March 31, 2010	
			Meet with landowners and growers	Ulatis Creek	SVWQC; SWC; AC	June 30, 2010	
			Set goals and schedule for implementation	Ulatis Creek	SWC; SVWQC	June 30, 2010	
	Toxicity	Management Practice Implementation	Develop list of Management Practices	Cache Creek	SWC; SVWQC; LOG	March 31, 2010	
				Ulatis Creek	SWC; SVWQC; LOG	March 31, 2010	
				Willow Slough	SWC; SVWQC; LOG	March 31, 2010	
				Z-Drain	SWC; SVWQC; LOG	March 31, 2010	
			Set goals and schedule for implementation	Cache Creek	SVWQC; SWC	June 30, 2010	
		Ulatis Creek		SVWQC; SWC	June 30, 2010		
		Willow Slough		SVWQC; SWC	June 30, 2010		
		Z-Drain		SVWQC; SWC	June 30, 2010		
	DO and pH	Review Regulatory Basis	Review Regulatory Basis	Ulatis Creek	SVWQC; ILRP	June 30, 2010	
				Z-Drain	SVWQC; ILRP	June 30, 2010	
		Source ID	Evaluate nutrient applications	Ulatis Creek	SVWQC	December 30, 2010	
				Z-Drain	SVWQC	December 30, 2010	
	Pathogen Indicators	Management Practice Implementation	Survey Coalition members	Tule Canal	SWC; SVWQC	June 30, 2010	
				Ulatis Creek	SWC; SVWQC	June 30, 2010	
				Willow Slough	SWC; SVWQC	June 30, 2010	
				Z-Drain	SWC; SVWQC	June 30, 2010	
			Source ID	Survey Coalition members	Tule Canal	SWC; SVWQC	June 30, 2010
		Ulatis Creek			SWC; SVWQC	June 30, 2010	
		Willow Slough			SWC; SVWQC	June 30, 2010	
		Z-Drain			SWC; SVWQC	June 30, 2010	
			Source Evaluation Report	Tule Canal	SVWQC	September 30, 2010	
		Ulatis Creek		SVWQC	September 30, 2010		
		Willow Slough		SVWQC	September 30, 2010		
Z-Drain		SVWQC		September 30, 2010			
	Review Regulatory Basis	Review Regulatory Basis	Tule Canal	SVWQC; ILRP	December 31, 2010		
			Ulatis Creek	SVWQC; ILRP	December 31, 2010		
			Willow Slough	SVWQC; ILRP	December 31, 2010		
			Z-Drain	SVWQC; ILRP	December 31, 2010		
Salinity	Review Regulatory Basis	Review Regulatory Basis	Cache Creek	SVWQC; ILRP	December 31, 2010		
			Tule Canal	SVWQC; ILRP	December 31, 2010		
			Ulatis Creek	SVWQC; ILRP	December 31, 2010		
			Willow Slough	SVWQC; ILRP	December 31, 2010		
			Z-Drain	SVWQC; ILRP	December 31, 2010		
						Cache Creek	SVWQC; SWC; AC

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Subwatershed	Management Plan Category	Implementation Element	Management Plan Task	Waterbody	Responsible Entities	Total		
				Tule Canal	SVWQC; SWC; AC	June 30, 2010		
				Ulatis Creek	SVWQC; SWC; AC	June 30, 2010		
				Willow Slough	SVWQC; SWC; AC	June 30, 2010		
				Z-Drain	SVWQC; SWC; AC	June 30, 2010		
			Compile information about salt-sensitive crops	Cache Creek	SVWQC; AC	December 31, 2010		
				Tule Canal	SVWQC; AC	December 31, 2010		
				Ulatis Creek	SVWQC; AC	December 31, 2010		
				Willow Slough	SVWQC; AC	December 31, 2010		
			Source Evaluation Report	Z-Drain	SVWQC; AC	December 31, 2010		
				Cache Creek	SVWQC; ILRP	December 31, 2010		
				Tule Canal	SVWQC; ILRP	December 31, 2010		
				Ulatis Creek	SVWQC; ILRP	December 31, 2010		
	Legacy Pesticides	Source ID	Management Practice Implementation	Willow Slough	SVWQC	June 30, 2010		
				Survey Coalition members	Willow Slough	SWC; SVWQC	September 30, 2010	
		Trace Metals - Se	Review Regulatory Basis	Source ID	Set goals and schedule for implementation	Willow Slough	SVWQC	December 31, 2010
					Develop list of Management Practices	Willow Slough	SWC; SVWQC; LOG	December 31, 2010
	ButteYubaSutter	Registered Pesticides	Management Practice Implementation	Develop list of Management Practices	Willow Slough	SVWQC; ILRP	June 30, 2010	
					Pine Creek	SVWQC; ILRP	June 30, 2010	
					Identify areas of elevated Se	Willow Slough	SVWQC; SWC; AC	December 31, 2010
				Meet with landowners and growers	Gilsizer Slough	SWC; SVWQC; LOG	March 31, 2010	
Pine Creek					SWC; SVWQC; LOG	March 31, 2010		
Set goals and schedule for implementation					Willow Slough	SVWQC	June 30, 2010	
Toxicity		Management Practice Implementation		Gilsizer Slough	SWC; SVWQC; LOG	March 31, 2010		
				Butte Slough	SVWQC; SWC	June 30, 2010		
DO and pH		Review Regulatory Basis	Source ID	Butte Slough	SVWQC; ILRP	June 30, 2010		
				Gilsizer Slough	SVWQC; ILRP	June 30, 2010		
		Pathogen Indicators	Management Practice Implementation	Source ID	Butte Slough	SVWQC	December 30, 2010	
					Gilsizer Slough	SVWQC	December 30, 2010	
				Survey Coalition members	Gilsizer Slough	SWC; SVWQC	June 30, 2010	
					Lower Snake River	SWC; SVWQC	June 30, 2010	
					Pine Creek	SWC; SVWQC	June 30, 2010	
					Wadsworth Canal	SWC; SVWQC	June 30, 2010	
				Source Evaluation Report	Gilsizer Slough	SWC; SVWQC	June 30, 2010	
					Lower Snake River	SWC; SVWQC	June 30, 2010	
					Pine Creek	SWC; SVWQC	June 30, 2010	
					Wadsworth Canal	SWC; SVWQC	June 30, 2010	
	Conduct field survey			Gilsizer Slough	SVWQC	September 30, 2010		
				Lower Snake River	SVWQC	September 30, 2010		
				Pine Creek	SVWQC	September 30, 2010		
				Wadsworth Canal	SVWQC	September 30, 2010		
				Gilsizer Slough	SWC; SVWQC	September 30, 2010		
				Lower Snake River	SWC; SVWQC	September 30, 2010		
Review Regulatory Basis	Review Regulatory Basis	Source ID	Pine Creek	SWC; SVWQC	September 30, 2010			
			Wadsworth Canal	SWC; SVWQC	September 30, 2010			
			Gilsizer Slough	SVWQC; ILRP	December 31, 2010			
			Lower Snake River	SVWQC; ILRP	December 31, 2010			
Salinity	Review Regulatory Basis	Source ID	Pine Creek	SVWQC; ILRP	December 31, 2010			
			Wadsworth Canal	SVWQC; ILRP	December 31, 2010			
			Gilsizer Slough	SVWQC; ILRP	December 31, 2010			
			Identify areas of elevated salinity	Gilsizer Slough	SVWQC; SWC; AC	June 30, 2010		

TABLE 9A 2010 Mgt Plan Task Table from Ongoing Management Plans

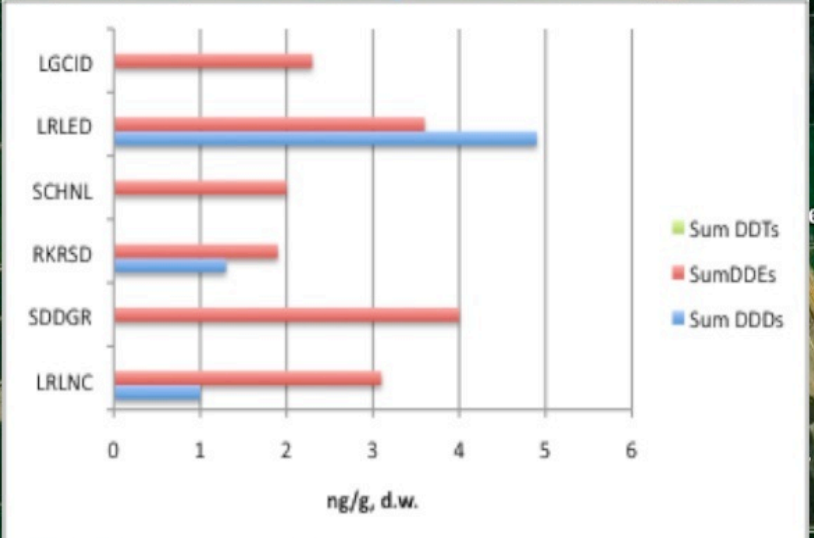
Subwatershed	Management Plan Category	Implementation Element	Management Plan Task	Waterbody	Responsible Entities	Total
			Compile information about salt-sensitive crops	Gilsizer Slough	SVWQC; AC	December 31, 2010
			Source Evaluation Report	Gilsizer Slough	SVWQC; ILRP	December 31, 2010
	Legacy Pesticides	Source ID	Source Evaluation Report	Gilsizer Slough	SVWQC	June 30, 2010
		Management Practice Implementation	Survey Coalition members	Gilsizer Slough	SWC; SVWQC	September 30, 2010
			Set goals and schedule for implementation	Gilsizer Slough	SVWQC	December 31, 2010
			Develop list of Management Practices	Gilsizer Slough	SWC; SVWQC; LOG	December 31, 2010

Appendix A: Legacy OC Pesticides in Sediment Sampling Results

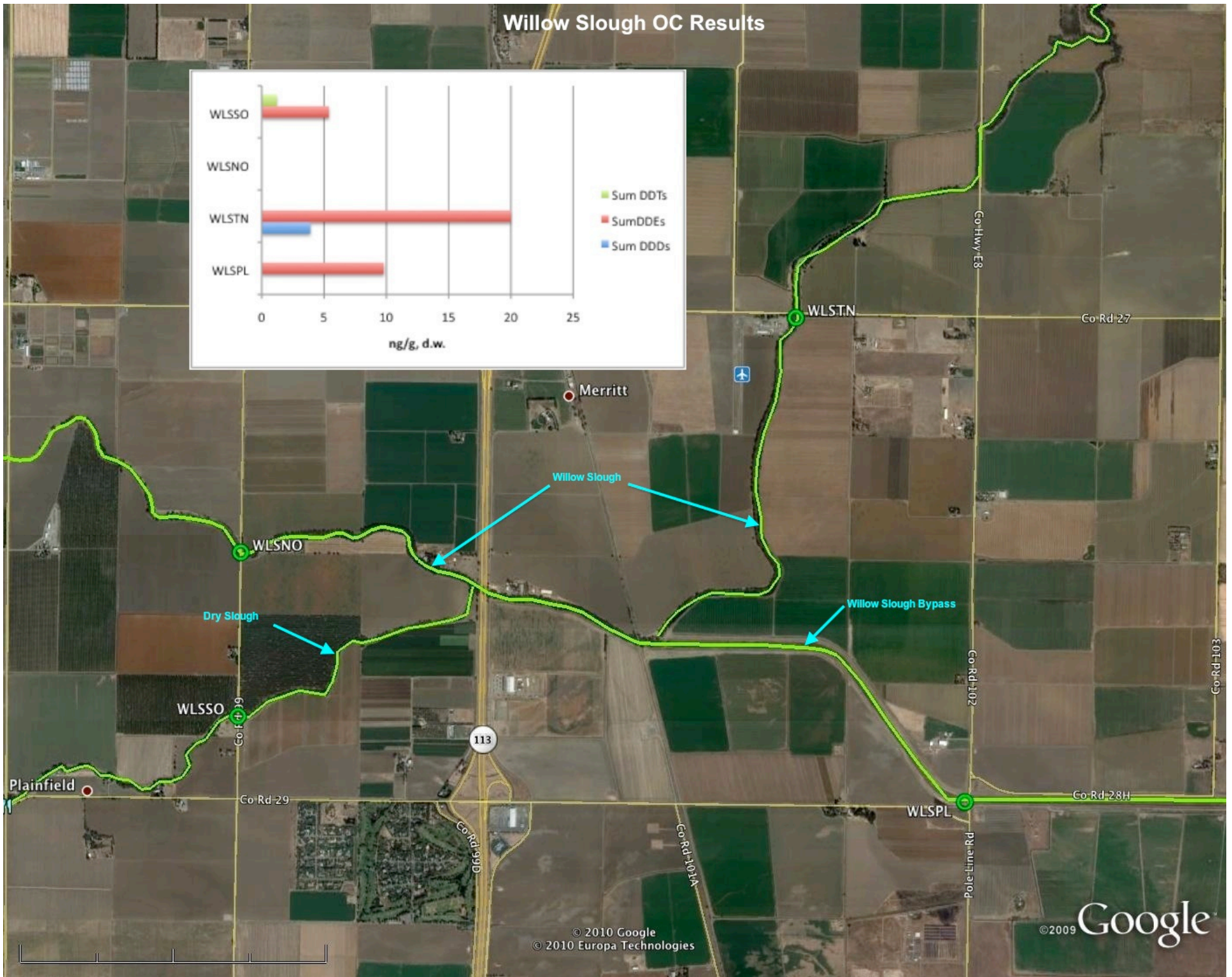
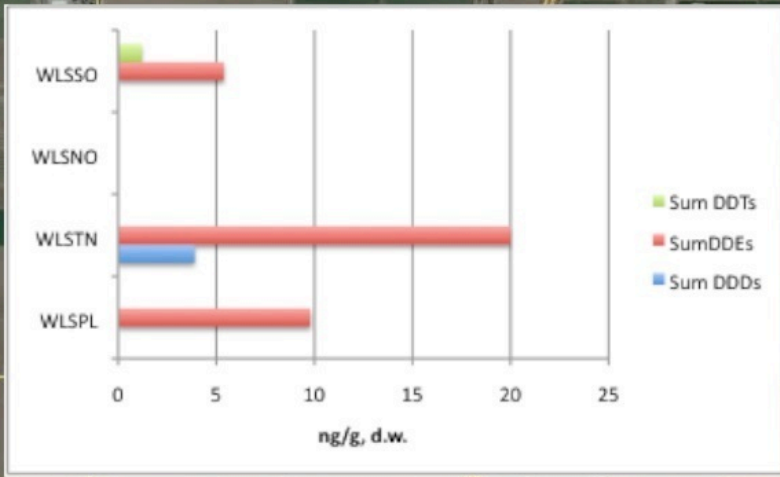
The following information is provided in this appendix:

- **Sycamore SL Rough and Ready PP OC Figure**
 - **Willow Slough OC Figure**
 - **Grand Island OC Results**
 - **Gilsizer Slough OC Figure**
 - **Lurline Creek OC Figure**
 - **North Canyon OC Figure**
 - **Coon Hollow Creek OC Figure**
 - **Sediment Quality Data: Legacy Organochlorine Pesticides in Sediment**
-

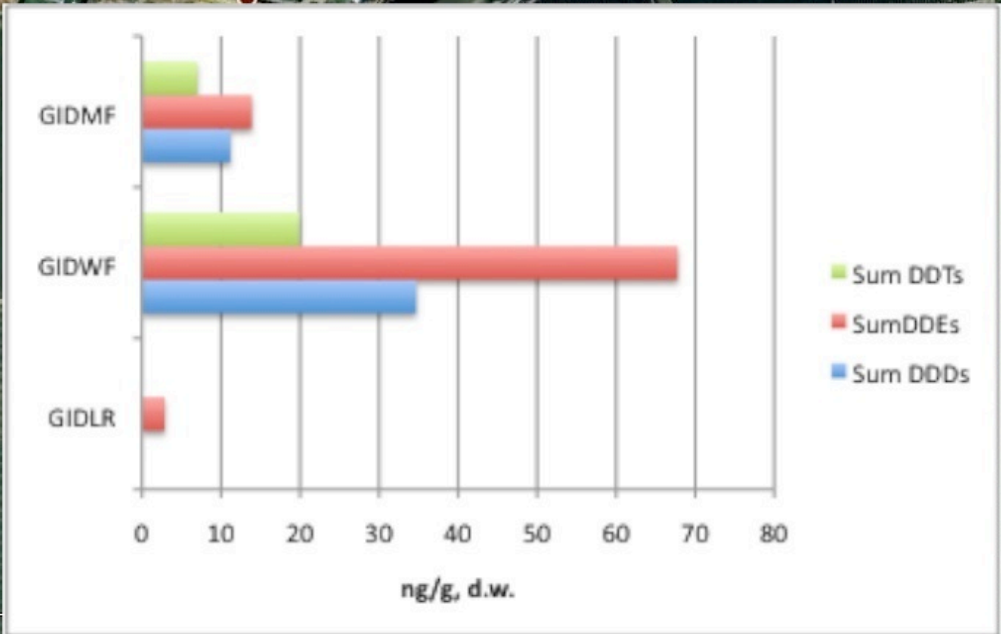
Lurline Creek OC Results

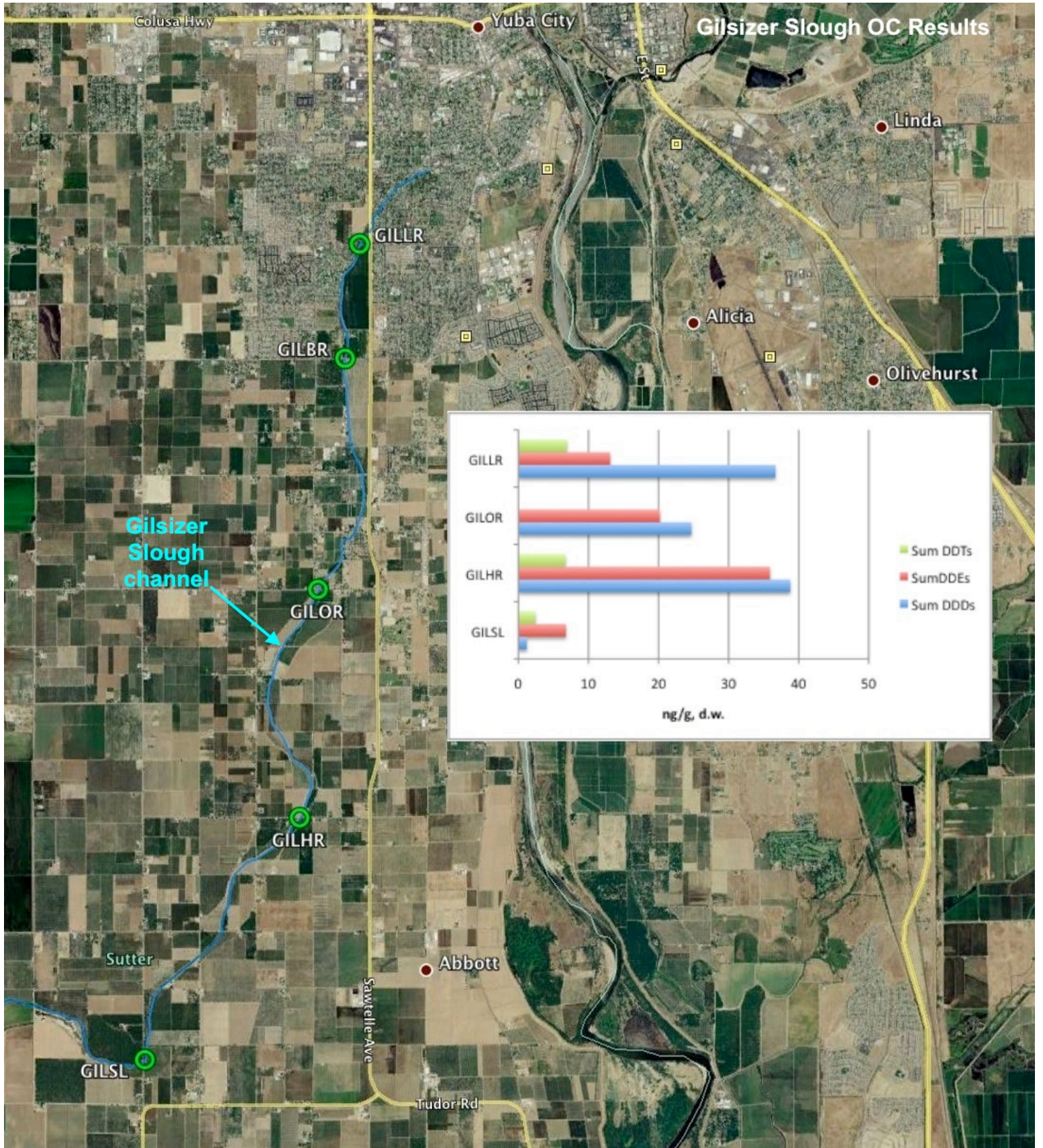


Willow Slough OC Results

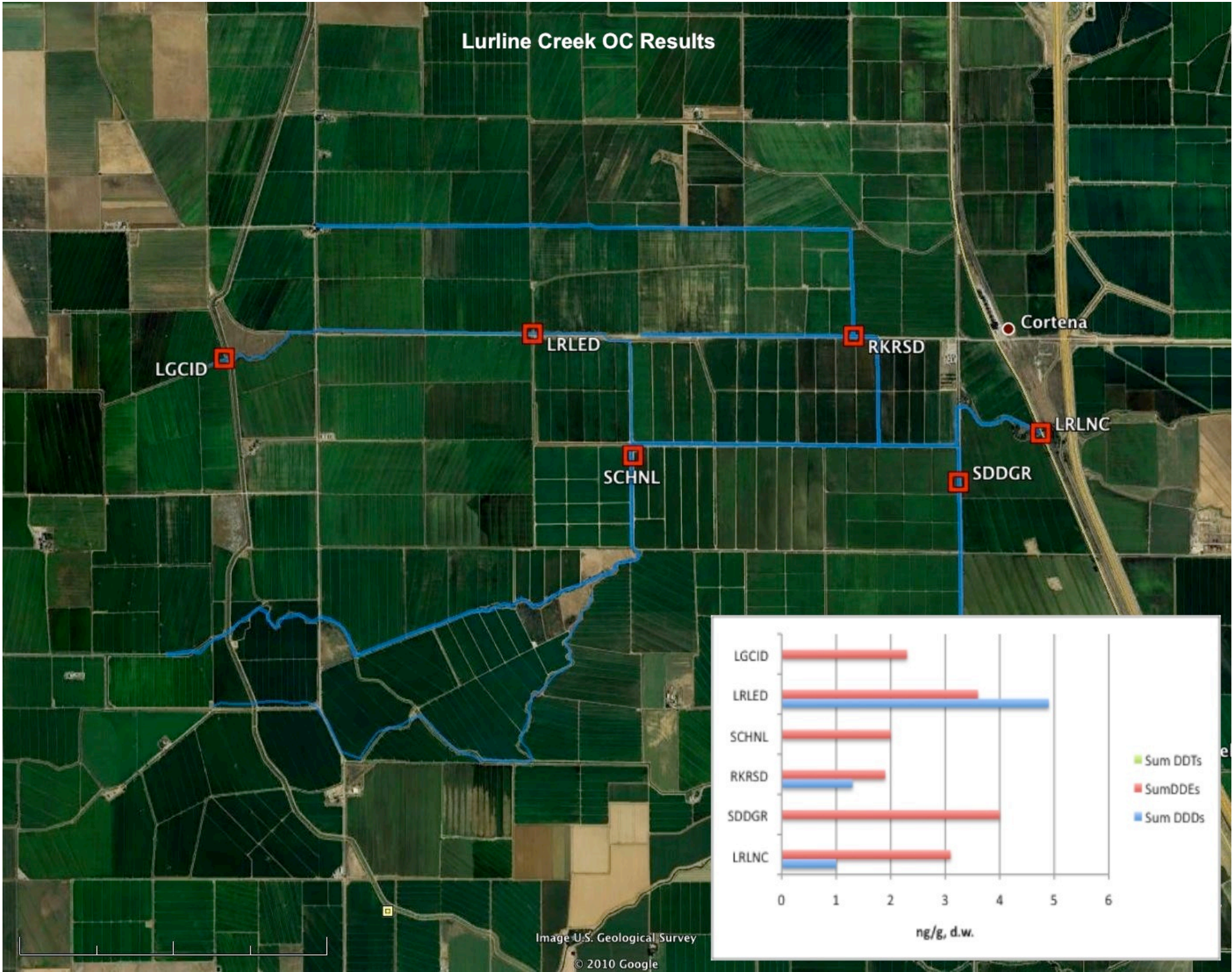


Grand Island OC Results

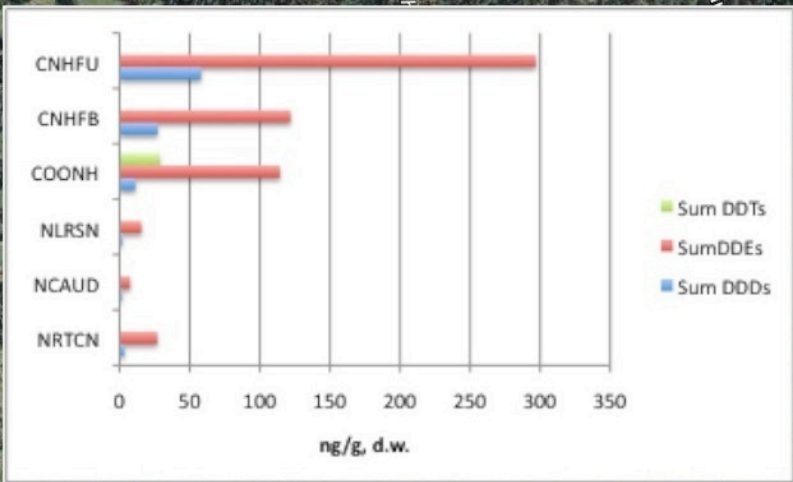
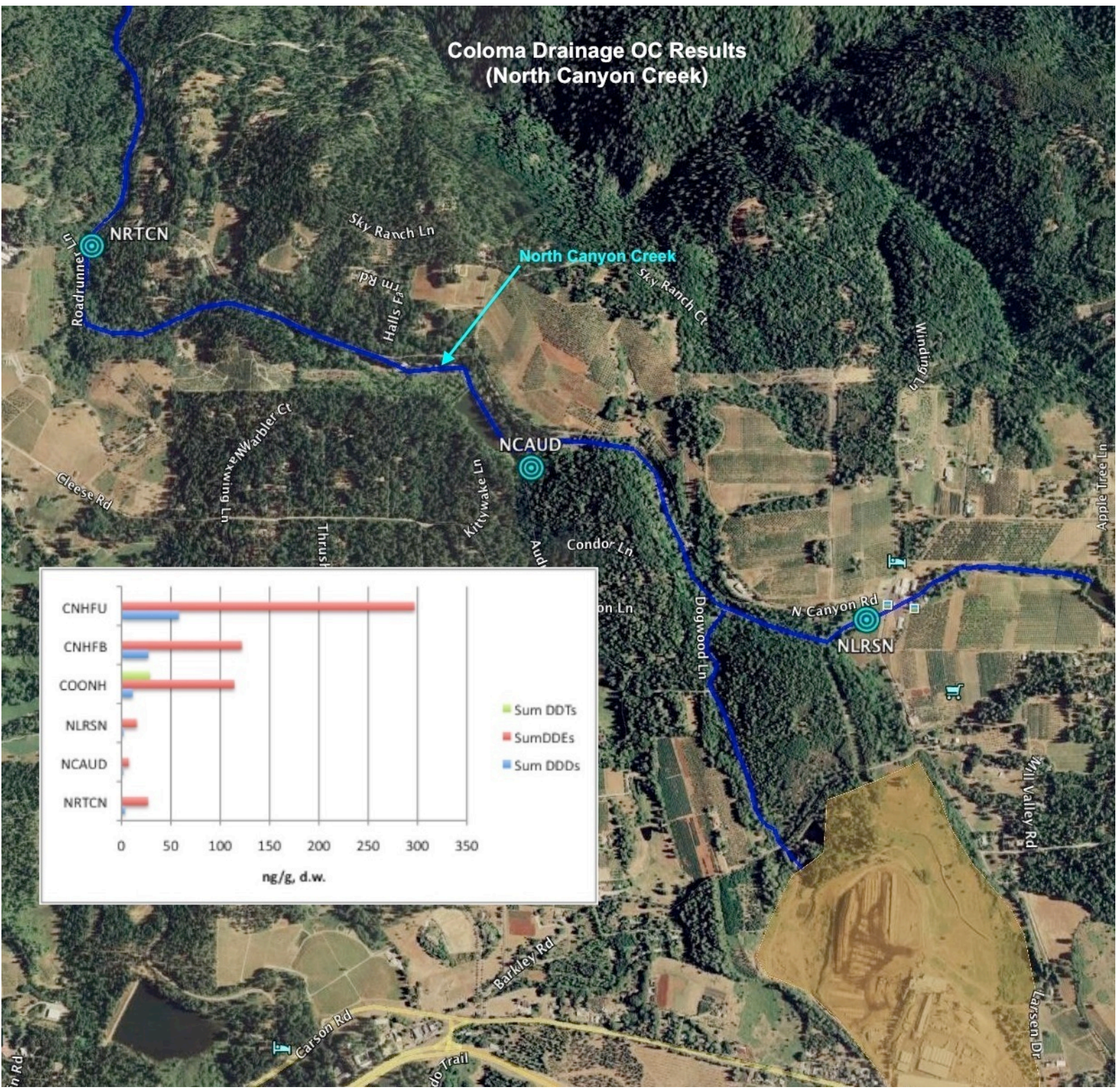




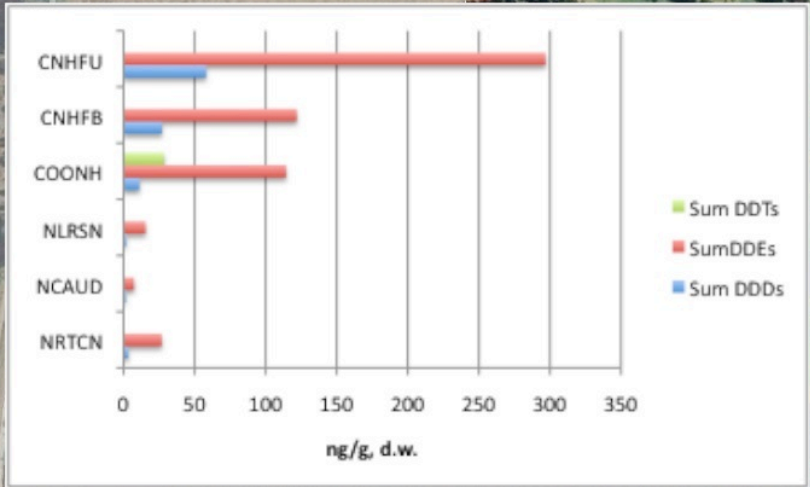
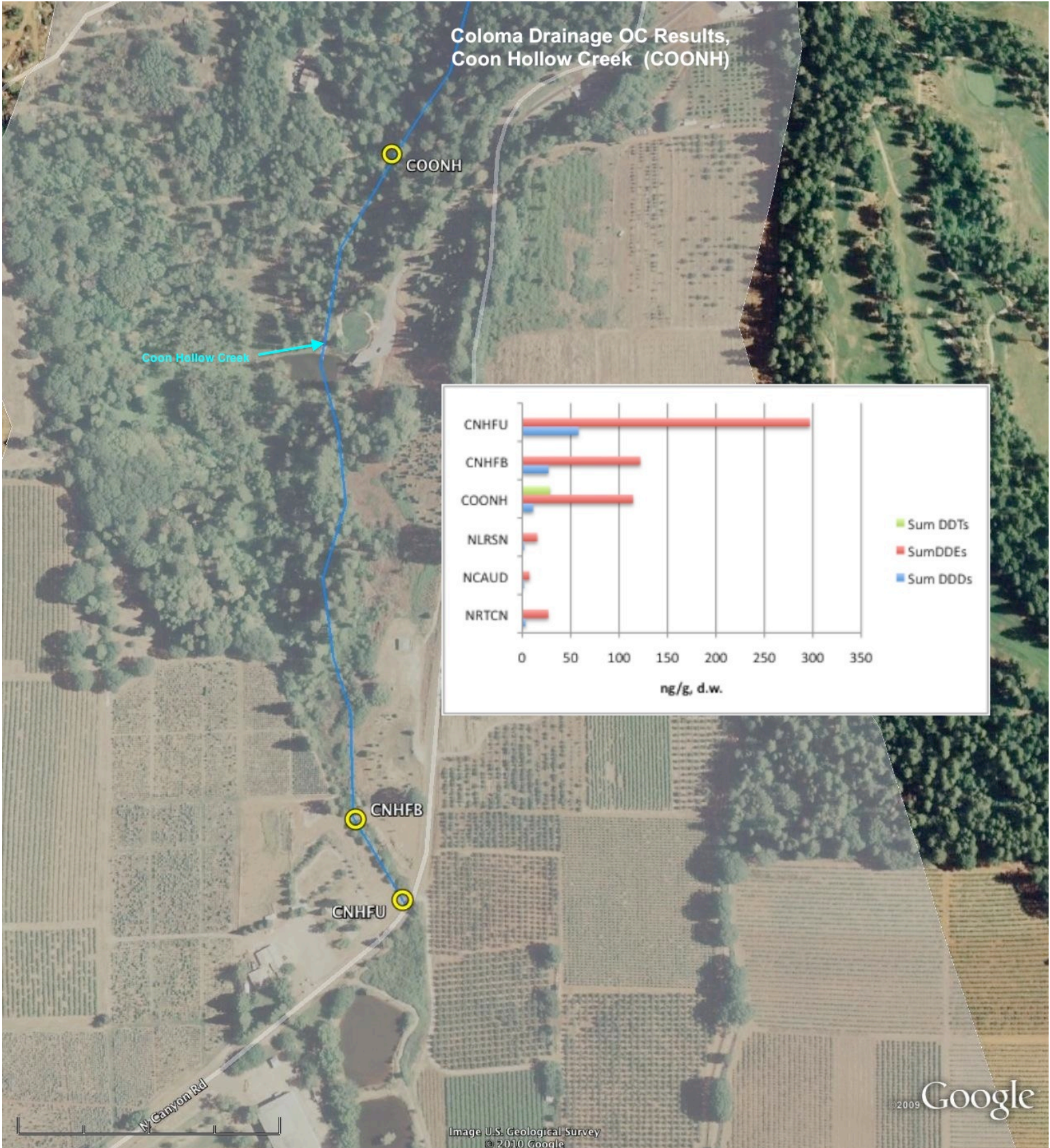
Lurline Creek OC Results



Coloma Drainage OC Results (North Canyon Creek)



Coloma Drainage OC Results,
Coon Hollow Creek (COONH)



Sediment Quality Data: Legacy Organochlorine Pesticides in Sediment

SiteID	Subwatershed	Drainage	Site	Sample Date	Replicate	SampleID	Lab Replicate	MatrixName	Method Name	Analyte Name	Fraction Name	Unit	Result	Result Qual Code	MDL	RL
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	Mirex	None	ng/g dw	-1	ND	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	Oxychlorodane	None	ng/g dw	-1	ND	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	SM 2540 B	% Solids	None	%	53	=	0.1	0.1
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	Perthane	None	ng/g dw	-5	ND	5	10
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	Nonachlor, trans-	None	ng/g dw	-1	ND	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	HCH, alpha	None	ng/g dw	-1	ND	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	DDD(o,p')	None	ng/g dw	1.1	DNQ	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	HCH, beta	None	ng/g dw	-1	ND	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	HCH, delta	None	ng/g dw	-1	ND	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	HCH, gamma	None	ng/g dw	-1	ND	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	Chlordane, cis-	None	ng/g dw	-1	ND	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	Chlordane, trans-	None	ng/g dw	-1	ND	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	Nonachlor, cis-	None	ng/g dw	-1	ND	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	Dacthal	None	ng/g dw	-5	ND	5	10
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	Dicofol	None	ng/g dw	4	=	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	Dieldrin	None	ng/g dw	-1	ND	1	5
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	Endosulfan sulfate	None	ng/g dw	-1	ND	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	Endosulfan I	None	ng/g dw	-1	ND	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	DDE(o,p')	None	ng/g dw	-1	ND	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	DDT(o,p')	None	ng/g dw	-1	ND	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	DDD(p,p')	None	ng/g dw	2.3	=	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	Endosulfan II	None	ng/g dw	-1	ND	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	DDE(p,p')	None	ng/g dw	10.6	=	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	Endrin	None	ng/g dw	-1	ND	1	2
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	PCB 198 (Surrogate)	None	%	92	=	-88	-88
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	Tetrachloro-m-xylene-2,4,5,6 (Surrogate)	None	%	86	=	-88	-88
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	PCB 030 (Surrogate)	None	%	87	=	-88	-88
LTTHR	ColusaGlenn	Sycamore Area	Lateral 3 RD 108	6/19/09	1	040-LTTHR-SE1	1	Sediment	EPA 8270C	PCB 112 (Surrogate)	None	%	87	=	-88	-88
LTSIX	ColusaGlenn	Sycamore Area	Lateral 6, RD 108	6/19/09	1	040-LTSIX-SE1	1	Sediment	EPA 8270C	DDT(p,p')	None	ng/g dw	-1	ND	1	2
LTSIX	ColusaGlenn	Sycamore Area	Lateral 6, RD 108	6/19/09	1	040-LTSIX-SE1	1	Sediment	EPA 8270C	Endrin Aldehyde	None	ng/g dw	-1	ND	1	2
LTSIX	ColusaGlenn	Sycamore Area	Lateral 6, RD 108	6/19/09	1	040-LTSIX-SE1	1	Sediment	EPA 8270C	Aldrin	None	ng/g dw	-1	ND	1	2
LTSIX	ColusaGlenn	Sycamore Area	Lateral 6, RD 108	6/19/09	1	040-LTSIX-SE1	1	Sediment	EPA 8270C	Endrin Ketone	None	ng/g dw	-1	ND	1	2
LTSIX	ColusaGlenn	Sycamore Area	Lateral 6, RD 108	6/19/09	1	040-LTSIX-SE1	1	Sediment	EPA 8270C	Heptachlor	None	ng/g dw	-1	ND	1	2
LTSIX	ColusaGlenn	Sycamore Area	Lateral 6, RD 108	6/19/09	1	040-LTSIX-SE1	1	Sediment	EPA 8270C	Heptachlor epoxide	None	ng/g dw	-1	ND	1	2
LTSIX	ColusaGlenn	Sycamore Area	Lateral 6, RD 108	6/19/09	1	040-LTSIX-SE1	1	Sediment	EPA 8270C	Methoxychlor	None	ng/g dw	-1	ND	1	2
LTSIX	ColusaGlenn	Sycamore Area	Lateral 6, RD 108	6/19/09	1	040-LTSIX-SE1	1	Sediment	EPA 8270C	Mirex	None	ng/g dw	-1	ND	1	2
LTSIX	ColusaGlenn	Sycamore Area	Lateral 6, RD 108	6/19/09	1	040-LTSIX-SE1	1	Sediment	EPA 8270C	Oxychlorodane	None	ng/g dw	-1	ND	1	2
LTSIX	ColusaGlenn	Sycamore Area	Lateral 6, RD 108	6/19/09	1	040-LTSIX-SE1	1	Sediment	SM 2540 B	% Solids	None	%	45	=	0.1	0.1
LTSIX	ColusaGlenn	Sycamore Area	Lateral 6, RD 108	6/19/09	1	040-LTSIX-SE1	1	Sediment	EPA 8270C	Perthane	None	ng/g dw	-1	ND	5	10
LTATE	ColusaGlenn	Sycamore Area	Lateral 8, RD 108	6/18/09	1	040-LTATE-SE1	1	Sediment	EPA 8270C	DDD(p,p')	None	ng/g dw	-1	ND	1	2
LTATE	ColusaGlenn	Sycamore Area	Lateral 8, RD 108	6/18/09	1	040-LTATE-SE1	1	Sediment	EPA 8270C	Endosulfan II	None	ng/g dw	-1	ND	1	2
LTATE	ColusaGlenn	Sycamore Area	Lateral 8, RD 108	6/18/09	1	040-LTATE-SE1	1	Sediment	EPA 8270C	DDE(p,p')	None	ng/g dw	2.2	=	1	2
GILSL	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at George Washington Road	6/16/09	2	040-GILSL-SE2	1	Sediment	EPA 8270C	DDE(o,p')	None	ng/g dw	-1	ND	1	2
GILSL	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at George Washington Road	6/16/09	2	040-GILSL-SE2	1	Sediment	EPA 8270C	DDT(o,p')	None	ng/g dw	-1	ND	1	2
GILSL	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at George Washington Road	6/16/09	2	040-GILSL-SE2	1	Sediment	EPA 8270C	DDD(p,p')	None	ng/g dw	1.5	DNQ	1	2
GILSL	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at George Washington Road	6/16/09	2	040-GILSL-SE2	1	Sediment	EPA 8270C	Endosulfan II	None	ng/g dw	-1	ND	1	2
GILSL	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at George Washington Road	6/16/09	2	040-GILSL-SE2	1	Sediment	EPA 8270C	DDE(p,p')	None	ng/g dw	7.1	=	1	2
GILSL	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at George Washington Road	6/16/09	2	040-GILSL-SE2	1	Sediment	EPA 8270C	Endrin	None	ng/g dw	-1	ND	1	2
GILSL	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at George Washington Road	6/16/09	2	040-GILSL-SE2	1	Sediment	EPA 8270C	PCB 030 (Surrogate)	None	%	99	=	-88	-88
GILSL	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at George Washington Road	6/16/09	2	040-GILSL-SE2	1	Sediment	EPA 8270C	PCB 112 (Surrogate)	None	%	101	=	-88	-88
GILSL	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at George Washington Road	6/16/09	2	040-GILSL-SE2	1	Sediment	EPA 8270C	PCB 198 (Surrogate)	None	%	79	=	-88	-88
GILSL	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at George Washington Road	6/16/09	2	040-GILSL-SE2	1	Sediment	EPA 8270C	Tetrachloro-m-xylene-2,4,5,6 (Surrogate)	None	%	95	=	-88	-88
GILHR	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at Hutchins Road	6/16/09	1	040-GILHR-SE1	1	Sediment	EPA 8270C	DDT(p,p')	None	ng/g dw	6.7	=	1	2
GILHR	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at Hutchins Road	6/16/09	1	040-GILHR-SE1	1	Sediment	EPA 8270C	Endrin Aldehyde	None	ng/g dw	-1	ND	1	2
GILHR	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at Hutchins Road	6/16/09	1	040-GILHR-SE1	1	Sediment	EPA 8270C	Aldrin	None	ng/g dw	-1	ND	1	2
GILHR	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at Hutchins Road	6/16/09	1	040-GILHR-SE1	1	Sediment	EPA 8270C	Endrin Ketone	None	ng/g dw	-1	ND	1	2
GILHR	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at Hutchins Road	6/16/09	1	040-GILHR-SE1	1	Sediment	EPA 8270C	Heptachlor	None	ng/g dw	-1	ND	1	2
GILHR	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at Hutchins Road	6/16/09	1	040-GILHR-SE1	1	Sediment	EPA 8270C	Heptachlor epoxide	None	ng/g dw	-1	ND	1	2
GILHR	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at Hutchins Road	6/16/09	1	040-GILHR-SE1	1	Sediment	EPA 8270C	Methoxychlor	None	ng/g dw	-1	ND	1	2
GILHR	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at Hutchins Road	6/16/09	1	040-GILHR-SE1	1	Sediment	EPA 8270C	Mirex	None	ng/g dw	-1	ND	1	2
GILHR	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at Hutchins Road	6/16/09	1	040-GILHR-SE1	1	Sediment	EPA 8270C	Oxychlorodane	None	ng/g dw	-1	ND	1	2
GILHR	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at Hutchins Road	6/16/09	1	040-GILHR-SE1	1	Sediment	SM 2540 B	% Solids	None	%	48	=	0.1	0.1
GILHR	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at Hutchins Road	6/16/09	1	040-GILHR-SE1	1	Sediment	EPA 8270C	Perthane	None	ng/g dw	-5	ND	5	10
GILHR	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at Hutchins Road	6/16/09	1	040-GILHR-SE1	1	Sediment	EPA 8270C	Nonachlor, trans-	None	ng/g dw	1.6	DNQ	1	2
GILHR	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at Hutchins Road	6/16/09	1	040-GILHR-SE1	1	Sediment	EPA 8270C	HCH, alpha	None	ng/g dw	-1	ND	1	2
GILHR	ButteYubaSutter	Gilsizer Slough	Gilsizer Slough at Hutchins Road	6/16/09	1	040-GILHR-SE1	1	Sediment	EPA 8270C	DDD(o,p')	None	ng/g dw	10.8	=	1	2
LTSIX	ColusaGlenn	Sycamore Area	Lateral 6, RD 108	6/19/09	1	040-LTSIX-SE1	1	Sediment	EPA 8270C	Nonachlor, trans-	None	ng/g dw	-1	ND	1	2
LTSIX	ColusaGlenn	Sycamore Area	Lateral 6, RD 108	6/19/09	1	040-LTSIX-SE1	1	Sediment	EPA 8270C	HCH, alpha	None	ng/g dw	-1	ND	1	2
LTSIX	ColusaGlenn	Sycamore Area	Lateral 6, RD 108	6/19/09	1	040-LTSIX-SE1	1	Sediment	EPA 8270C	DDD(o,p')	None	ng/g dw	-1	ND	1	2
LTSIX	ColusaGlenn	Sycamore Area	Lateral 6, RD 108	6/19/09	1	040-LTSIX-SE1	1	Sediment	EPA 8270C	HCH, beta	None	ng/g dw	-1	ND	1	2
LTSIX	ColusaGlenn	Sycamore Area	Lateral 6, RD 108	6/19/09	1	040-LTSIX-SE1	1	Sediment	EPA 8270C	HCH, delta	None	ng/g dw	-1	ND	1	2

Sediment Quality Data: Legacy Organochlorine Pesticides in Sediment

SiteID	Subwatershed	Drainage	Site	Sample Date	Replicate	SampleID	Lab Replicate	MatrixName	Method Name	Analyte Name	Fraction Name	Unit	Result	Qual Code	MDL	RL
GIDMF	SacramentoAmador	Grand Island	Grand Island Drain Middle Fork	6/16/09	1	040-GIDMF-SE1	2	Sediment	EPA 8270C	Chlordane, trans-	None	ng/g dw	-1	ND	1	2
GIDMF	SacramentoAmador	Grand Island	Grand Island Drain Middle Fork	6/16/09	1	040-GIDMF-SE1	2	Sediment	EPA 8270C	Nonachlor, cis-	None	ng/g dw	-1	ND	1	2
GIDMF	SacramentoAmador	Grand Island	Grand Island Drain Middle Fork	6/16/09	1	040-GIDMF-SE1	2	Sediment	EPA 8270C	Dacthal	None	ng/g dw	-5	ND	5	10
GIDMF	SacramentoAmador	Grand Island	Grand Island Drain Middle Fork	6/16/09	1	040-GIDMF-SE1	2	Sediment	EPA 8270C	Dicofol	None	ng/g dw	5.5	=	1	2
GIDMF	SacramentoAmador	Grand Island	Grand Island Drain Middle Fork	6/16/09	1	040-GIDMF-SE1	2	Sediment	EPA 8270C	Dieldrin	None	ng/g dw	-1	ND	1	5
GIDMF	SacramentoAmador	Grand Island	Grand Island Drain Middle Fork	6/16/09	1	040-GIDMF-SE1	2	Sediment	EPA 8270C	Endosulfan sulfate	None	ng/g dw	-1	ND	1	2
GIDMF	SacramentoAmador	Grand Island	Grand Island Drain Middle Fork	6/16/09	1	040-GIDMF-SE1	2	Sediment	EPA 8270C	DDE(o,p')	None	ng/g dw	-1	ND	1	2
GIDMF	SacramentoAmador	Grand Island	Grand Island Drain Middle Fork	6/16/09	1	040-GIDMF-SE1	2	Sediment	EPA 8270C	DDT(o,p')	None	ng/g dw	-1	ND	1	2
GIDMF	SacramentoAmador	Grand Island	Grand Island Drain Middle Fork	6/16/09	1	040-GIDMF-SE1	2	Sediment	EPA 8270C	Endosulfan I	None	ng/g dw	-1	ND	1	2
GIDMF	SacramentoAmador	Grand Island	Grand Island Drain Middle Fork	6/16/09	1	040-GIDMF-SE1	2	Sediment	EPA 8270C	DDD(p,p')	None	ng/g dw	8.2	=	1	2
GIDMF	SacramentoAmador	Grand Island	Grand Island Drain Middle Fork	6/16/09	1	040-GIDMF-SE1	2	Sediment	EPA 8270C	Endosulfan II	None	ng/g dw	-1	ND	1	2
GIDMF	SacramentoAmador	Grand Island	Grand Island Drain Middle Fork	6/16/09	1	040-GIDMF-SE1	2	Sediment	EPA 8270C	DDE(p,p')	None	ng/g dw	12.1	=	1	2
GIDMF	SacramentoAmador	Grand Island	Grand Island Drain Middle Fork	6/16/09	1	040-GIDMF-SE1	2	Sediment	EPA 8270C	PCB 030 (Surrogate)	None	%	110	=	-88	-88
GIDMF	SacramentoAmador	Grand Island	Grand Island Drain Middle Fork	6/16/09	1	040-GIDMF-SE1	2	Sediment	EPA 8270C	PCB 112 (Surrogate)	None	%	115	=	-88	-88
GIDMF	SacramentoAmador	Grand Island	Grand Island Drain Middle Fork	6/16/09	1	040-GIDMF-SE1	2	Sediment	EPA 8270C	PCB 198 (Surrogate)	None	%	67	=	-88	-88
GIDMF	SacramentoAmador	Grand Island	Grand Island Drain Middle Fork	6/16/09	1	040-GIDMF-SE1	2	Sediment	EPA 8270C	Tetrachloro-m-xylene-2,4,5,6 (Surrogate)	None	%	109	=	-88	-88
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	SM 2540 B	% Solids	NA	%	56	=	0.1	0.1
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Nonachlor, cis-	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Perthane	NA	ng/g dw	-5	ND	5	10
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	DDD(p,p')	NA	ng/g dw	8.6	=	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Endosulfan I	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	HCH, alpha	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	DDD(o,p')	NA	ng/g dw	2.6	=	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Heptachlor	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Aldrin	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Endrin Aldehyde	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Chlordane, cis-	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Endrin Ketone	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	DDE(p,p')	NA	ng/g dw	112.7	=	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Oxychlorane	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Methoxychlor	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Dicofol	NA	ng/g dw	9.3	=	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Heptachlor epoxide	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	HCH, beta	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	DDT(p,p')	NA	ng/g dw	24.5	=	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Nonachlor, trans-	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	DDE(o,p')	NA	ng/g dw	1.7	DNQ	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Endosulfan sulfate	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Dacthal	NA	ng/g dw	-5	ND	5	10
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	DDT(o,p')	NA	ng/g dw	4	=	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Dieldrin	NA	ng/g dw	1.9	DNQ	1	5
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Chlordane, trans-	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	HCH, delta	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Mirex	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Endosulfan II	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Endrin	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	HCH, gamma	NA	ng/g dw	-1	ND	1	2
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	PCB 030 (Surrogate)	NA	ng/g dw	0.092	=	-88	-88
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	PCB 112 (Surrogate)	NA	ng/g dw	0.092	=	-88	-88
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	PCB 198 (Surrogate)	NA	ng/g dw	0.08	=	-88	-88
COONH	ElDorado	Coloma El Dorado	Coon Hollow Creek	7/22/09	1	041-COONH-SE1	1	Sediment	EPA 8270C	Tetrachloro-m-xylene-2,4,5,6 (Surrogate)	NA	ng/g dw	0.085	=	-88	-88

Appendix B: Management Plan Outreach Efforts – 2009



MANAGEMENT PLAN OUTREACH EFFORTS – 2009

In 2009 the Sacramento Valley Water Quality Coalition (SVWQC) and the Coalition partners in each of the ten subwatersheds worked actively to ensure members covered by the Coalition Conditional Waiver of Waste Discharge (Ag Waiver) were aware of water quality conditions, exceedances and management plan obligations resulting from exceedances that occurred prior to September 2007. The SVWQC has nearly 8500 landowners and over 1.2 million acres of irrigated agriculture covered by the Ag Waiver.

The SVWQC is managed by the Northern California Water Association (NCWA), which utilizes the services of Ducks Unlimited and CURES (Coalition for Urban and Rural Environmental Stewardship) to conduct outreach efforts.

In each of the SVWQC's ten subwatersheds, a leadership group consisting of representatives from the local Farm Bureau, the Agricultural Commissioner's Office, Resource Conservation Districts (RCDs), University of California Cooperative Extension (UCCE) and/or local growers/ranchers provide the vital link between the regulatory and programmatic requirements of the Monitoring Reporting Plan (MRP) and Management Plan and on the ground implementation. Communication outreach with owners of irrigated lands begin with enrollment and annual renewal, answering basic questions about the Ag Waiver, and is repeat through various means throughout the year. This may consist of regular written updates in newsletters or e-mails. It may take place at meetings held regularly throughout the year at Quarterly meetings of the SVWQC, RCD meetings, Farm Bureaus, or Agricultural Commissioner meetings.

As five (5) years of water quality results have demonstrated, the SVWQC has limited exceedances of water quality standards, even in the most intensively agricultural areas. Our members have worked diligently to implement management practices to protect and improve water quality, including practices funded through EQIP and AWEP grants.

Summarized below are the specific Management Plan Outreach efforts corresponding to Management Plan obligations by Subwatershed. This summary captures the formal outreach efforts that have been conducted. It does not capture the countless informal outreach efforts that take place between land owners, between water providers and land owners, or the instances of land owners picking up the material on management practices made available from the offices of the Farm Bureau, RCDs, Agricultural Commissioner and other agricultural service organizations and practitioners in the watershed.

MANAGEMENT PLAN STATUS UPDATE

The primary activities conducted in 2009 to implement the Coalition's Management Plan focused on addressing registered pesticides and toxicity exceedances. Implementation completed for registered pesticides included review and evaluation of pesticide application data, identification of potential sources, and determination of likely agricultural sources.

Implementation completed to address toxicity exceedances included review and evaluation of pesticide application data, evaluation of monitoring results to identify potential causes of toxicity, and determination of likely agricultural sources of identified causes of toxicity. These evaluations were documented in Source Evaluation Reports for each water body and management plan element. For registered pesticides and identified causes of toxicity, surveys of Coalition members operating on high priority parcels were conducted to determine the degree of implementation of relevant management practices. These survey results will be used to establish goals for additional management practice implementation needed to address exceedances of Basin Plan water quality objectives and ILRP trigger limits.

LANDOWNER OUTREACH EFFORTS

The Coalition and its subwatersheds, working with the Coalition for Urban/Rural Environmental Stewardship (CURES), stand committed to working with the Regional Water Board and its staff to implement the Management Practices Process and the Coalition's approved Management Plan to address water quality problems identified in the Sacramento Valley. The primary strategic approach taken by the Coalition is to notify and educate the subwatershed landowners, farm operators, and/or wetland managers about the cause(s) of toxicity and/or exceedance(s) of water quality standards. Notifications are focused on (but not limited to) growers who operate directly adjacent to or within close proximity to the waterway. The broader outreach program, which includes both grower meetings and the notifications distributed through direct mailings, encourages the adoption of BMPs and modification of the uses of specific farm and wetland inputs to prevent movement of constituents of concern into Sacramento Valley surface waters.

Targeted Outreach Efforts

The Coalition's targeted outreach approach is to focus on the growers with fields directly adjacent to or near the actual waterway of concern. To identify those landowners operating in high priority lands, the Coalition identifies the assessor parcels and subsequently the owners of agricultural operations nearest the water bodies of interest. From the list of assessor parcel numbers, the Coalition identifies its members and mails to them an advisory notice along with Sacramento Valley Water Quality Coalition 71 December 2008 – September 2009 Annual Monitoring Report information on how to address the specific exceedances using BMPs. This same approach has been used to conduct management practice surveys in areas targeted by the Management Plan.

General Outreach Efforts

Highlights of outreach efforts conducted by the Coalition and its partners for specific subwatersheds from January through September 2009 are summarized in the following sections.

BUTTE YUBA SUTTER SUBWATERSHED

2009 Management Plan Priorities: Toxicity and Registered Pesticides

Waterbodies: Butte Slough (*Selenastrum*)
Gilsizer Slough (Diazinon)
Pine Creek (Chlorpyrifos).

Outreach efforts: The Butte County portion of the Subwatershed is covered through an Memorandum of Understanding (MOU) between the State Water Resources Control Board (SWRCB), Central Valley Regional Water Quality Control Board (CVRWQCB) the Department of Pesticide Regulation (DPR) and the Agricultural Commissioners of Butte and Glenn Counties. The Agricultural Commissioners MOU tasks include public education and outreach, along with recommendations for alternative approaches and strategies. Sutter County Resource Conservation District (SCRCD) is under contract Butte Yuba Sutter landowners with irrigated acreage to coordinate with the SVWQC to implement the MRP and Management Plan obligations.

In February 2010, the SCRCD with it Project Partners (Butte, Sutter, and Yuba Agriculture Commissioners; Butte, and Yuba Resource Conservation Districts; Butte-Yuba-Sutter Water Quality Coalition; Coalition for Urban/Rural Environmental Stewardship, Ducks Unlimited; Natural Resources Conservation Service; and UC Davis John Muir Institute of the Environment Aquatic Ecosystems Analysis Laboratory) submitted the Final Report for **Implementation of the Lower Feather River TMDL for Orchards** funded through a Proposition 50 grant. The short-term goal of the program was to “introduce and implement best management practices through grower outreach”, and the long term goal to “Reduce diazinon levels in the Lower Feather River Watershed and mobilize growers as active partners in environmental compliance and stewardship.” (**Implementation of Feather River Total Maximum Daily Load for Orchards**, Final Report ,February 2010, Lower Feather River Watershed Implementation Project. Proposition 50 under the Agricultural Water Quality Grant Program GA #04-399-555).

The full report can be accessed from: http://www.scrd.org/programs/tmdl_full_report.pdf. The following is an excerpt from the report.

“The BYSWQC had initiated a preliminary BMP survey required by the CVRWQCB during winter months through 2006 to better understand current BMP use (type, amount used, and distribution) by growers within the watershed . . . gathered through one-on-one grower visits and coordination with crop advisor’s activities. Outreach and assistance was offered for sediment load reduction and water savings by the Natural Resources Conservation Service (NRCS) Environmental Quality Incentive Program (EQIP). NRCS EQIP contracts are typically active 2-3 years after system installation, providing an active database of 236 growers actively needing system checkups and assistance. These growers were predominantly orchardists located within the Lower Feather River Watershed. During 236 one-on-one consultations, growers were recruited to implement management measures that were best suited for specific crop and hydrology characteristics. Priority was given to areas nearest waterways to implement vegetated filter strip and promote sediment control structure installation to manage diazinon and pyrethroid loading. These one-on-one consultations provided the opportunity to recruit growers to use targeted BMPs as effective means to reduce tail –water runoff loading and offer the BMP application pro bono. Alternative pest management strategies and practical conservation practices (filter strips, vegetated orchard floors, IPM, applicant alternatives etc.)

MANAGEMENT PLAN OUTREACH EFFORTS – 2009

that reduce excessive applications of dormant season sprays and subsequent loading of storm water runoff were discussed during the consultations and irrigation system evaluations. Irrigation system evaluations monitored irrigation practices for excessive applications creating tail water runoff, sediment loading and loss of water savings. This grower contact initiated ongoing communication to make certain that there was a consistent and reliable implementation of BMPs while promoting applicable NRCS assistance programs.

Cover crops and filter strips were planted in and around approximately 3,290 acres of orchards in the project area to reduce or eliminate the off-site movement of water, pesticides, and sediment.

Dormant season cover crops were planted in approximately 1,300 acres of 23 orchards, and vegetative filter strips were planted around 25 orchards totaling approximately 1,215 acres. An additional 775 acres of cover crops were sown in fall 2008 with seed purchased by this grant program, and there continues to be a wait-list of growers for more than 3,300 acres of orchards who are interested in implementing vegetative management practices on their farms.

This outreach effort resulted in accessing a large consortium of landowners to successfully: distribute over 20,000 educational newsletters; hold over 175 public meetings; conduct 236 individual one-on-one grower visits; 13 conduct 23 sprayer calibrations affecting 5930 acres; plant 3,290 acres of cover crops and filter strips; and increase BYSWQC membership by 20%.”

In addition, twenty – eight (28) meetings of the Butte, Yuba, and Sutter RCDs were held between January and September 2009, each of which were partially devoted to additional outreach and education related to Management Plan. Additionally, articles on management practices were published in two NRCS AWEP newsletters.

Information on outreach efforts for the Butte County portion of the Subwatershed are available on the CVRWQCB website:

http://www.swrcb.ca.gov/centralvalley/water_issues/irrigated_lands/ag_commissioners_pilot/index.shtml

COLUSA GLENN SUBWATERSHED

2009 Management Plan Priorities: Toxicity and Registered Pesticides

Waterbodies: Walker Creek (Chlorpyrifos)
Stony Creek (*Ceriodaphnia*)

Outreach efforts: The Glenn County portion of the Subwatershed is covered by a Memorandum of Understanding (MOU) between the State Water Resources Control Board (SWRCB), Central Valley Regional Water Quality Control Board (CVRWQCB) the Department of Pesticide Regulation (DPR) and the Agricultural Commissioners of Butte and Glenn Counties. The Agricultural Commissioners MOU tasks include public education and outreach, along with recommendations for alternative approaches and

MANAGEMENT PLAN OUTREACH EFFORTS – 2009

strategies. The Colusa Glenn Subwatershed Program is managed by the Glenn County RCD and a Board of Directors comprised of Glenn County and Colusa County farmers.

In March 2009, the Colusa Glenn Subwatershed Program conducted a watershed tour with Regional Board staff, which provide the Board of Directors and Regional Board staff an opportunity to dialog on management plan requirements. A press release about the Tour was distributed to local media outlets.

In May 2009 a letter entitled “**Stewardship of Chlorpyrifos to Avoid Water Quality Issues**” was sent to 131 landowners and agriculture service providers in the Walker Creek. The letter was also distributed as a Press Release to the 6150 people on the Colusa and Glenn Counties Farm Bureau, and Family Water Alliance distribution lists.

Information on water quality exceedances and Management Plan obligations were also provided monthly at the Glenn County RCD, and the Glenn County Farm Bureau meetings and Quarterly at the Colusa County Farm Bureau meetings.

EL DORADO SUBWATERSHED

2009 Management Plan Priorities: Toxicity

Waterbodies: Coon Hollow Creek (*Ceriodaphnia*)

Outreach efforts: The local outreach and education efforts are provided through the El Dorado County Agricultural Water Education Corporation. The Corporation conducted a Spray Calibration Field Day attended by 42 landowners and operators designed to prevent spray drift when applying pesticides; members attended the UCCE Small Farms Conference seminar on “Least Toxic Tree Fruit Pest Management Methods and a Tailgate Field training on alternative grape growing practices; and received pesticide training as part of renewal for their restricted materials permits. Two newsletters with articles on Management Practices were published by the Corporation.

LAKE/NAPA COUNTIES SUBWATERSHED

2009 Management Plan Priorities: None

Waterbodies: None

Outreach efforts: Refer to Table 25 in Annual Monitoring Report 2009 for education and outreach efforts conducted unrelated to Management Plan requirements.

NORTHEASTERN CALIFORNIA WATER ASSOCIATION (PIT RIVER) SUBWATERSHED

2009 Management Plan Priorities: None

Waterbodies: None

Outreach efforts: Refer to Table 25 in Annual Monitoring Report 2009 for education and outreach efforts conducted unrelated to Management Plan requirements.

PLACER-NEVADA-SOUTH SUTTER-NORTH SACRAMENTO (PNSSNS) SUBWATERSHED

2009 Management Plan Priorities: None

Waterbodies: None

Outreach efforts: Refer to Table 25 in Annual Monitoring Report 2009 for education and outreach efforts conducted unrelated to Management Plan requirements.

SACRAMENTO AMADOR SUBWATERSHED

2009 Management Plan Priorities: Toxicity
Legacy Pesticides

Waterbodies: Laguna Creek (Ceriodaphnia)
Grand Island (DDT/DDE)

Outreach efforts: The Sacramento Amador Water Quality Alliance provides education and outreach efforts for the SVWQC in this Subwatershed. In February 2009, Cal-West provided general information on Atrazine to 50 attendees; the newsletter was sent to 733 participants with information about the Program; and information provided at the Lower Cosumnes RCD meeting.

SHASTA TEHAMA SUBWATERSHED

2009 Management Plan Priorities: None

Waterbodies: None

Outreach efforts: Refer to Table 25 in Annual Monitoring Report 2009 for education and outreach efforts conducted unrelated to Management Plan requirements.

SOLANO YOLO SUBWATERSHED

2009 Management Plan Priorities: Toxicity
Registered Pesticides
Legacy Pesticides

Waterbodies: Ulatis Creek (Diuron, Malathion and *Selenastrum*)
Willow Slough (Chlorpyrifos, *Ceriodaphnia* and *Selenastrum*)

Outreach efforts: The outreach and education efforts are actively managed by the Dixon and Solano RCDs in Solano County and the Farm Bureau and Ag Commissioner’s office in Yolo County. In Yolo County, this education and outreach occurs through the Ag Commissioner’s office, which includes...

- Regulates the use of restricted and non-restricted pesticides through a detailed permitting and use reporting system
- Regulates activities of licensed agricultural pest control operators and private applicators
- Investigates crop loss episodes
- Conducts pesticide application, mix/load and equipment inspections
- Audits records of growers, pest control operators, dealers and pest control advisors
- Inspects pesticide storage facilities
- Provides pesticide education to pesticide users
- Assures compliance with pesticide use reporting regulations
- Certifies properly rinsed pesticide containers for recycling or disposal

The Dixon Solano RCDs provided a 30 minute review of specific water quality monitoring results and program requirements to Solano growers at the Ag Commissioners Pesticide Applicator training in January 2009. This training had residual benefits beyond agriculture, as the Pesticide Control Advisors, have residential and industrial as well as agricultural clients.

In July as part of the membership renewal and invoicing the Dixon Solano RCD sent its Annual Newsletter to 675 Coalition members.

UPPER FEATHER RIVER SUBWATERSHED

2009 Management Plan Priorities: None

Waterbodies: None

Outreach efforts: Refer to Table 25 in Annual Monitoring Report 2009 for extensive education and outreach efforts conducted unrelated to Management Plan requirements.

**Appendix C: Addendum to Sacramento Valley
Water Quality Coalition Management Plan:
Chlorpyrifos and Diazinon TMDLs**

Addendum to Sacramento Valley Water Quality Coalition Management Plan: Chlorpyrifos and Diazinon TMDLs

The Sacramento Valley Water Quality Coalition (Coalition) submitted a Management Plan in December 2008 to address water quality impairments within the Coalition area. An additional requirement of the Management Plan is to document monitoring and management activities on behalf of members of the Coalition required by the Regional Board's Basin Plan Amendments for the Control of Diazinon and Chlorpyrifos Runoff into the Sacramento and Feather Rivers (Resolution No. R5-2007-0034) and the Sacramento-San Joaquin Delta (R5-2006-0061). The Basin Plan Amendments set forth Total Maximum Daily Load (TMDL) requirements for dischargers and require that dischargers comply with the monitoring and management criteria defined in the Basin Plan. This addendum to the Coalition's approved Management Plan addresses requirements for compliance with these TMDLs for chlorpyrifos and diazinon. The following narrative documents the Coalition's planned activities to comply with the TMDL requirements.

MANAGEMENT OF CHLORPYRIFOS AND DIAZINON DISCHARGES TO THE SACRAMENTO AND FEATHER RIVERS AND THE SACRAMENTO-SAN JOAQUIN DELTA

The Basin Plan amendments (R5-2007-0034 and R5-2006-0061) require dischargers, either individually or as a coalition, to submit a management plan that describes the actions that they will take to reduce diazinon and chlorpyrifos discharges and meet the applicable allocations by the required compliance dates. The Coalition's Management Plan (SVWQC 2009) includes a process for source identification and identification of additional management practices that may be needed to achieve additional reductions in diazinon and chlorpyrifos discharges. Quarterly meetings will be held with the Regional Water Board in order to evaluate progress in meeting these reductions, and revisions to the Management Plan will be made if sufficient progress is not being achieved.

The Coalition will continue to monitor chlorpyrifos and diazinon according to the Coalition's approved 2009 Monitoring and Reporting Program Plan (MRPP) Core and Assessment monitoring schedule and the SVWQC 2010-2014 MRP Order (CVRWQCB 2009). The monitoring locations are representative of discharges to the Sacramento River, Feather River, and Delta. This monitoring will continue to provide information on the wide range of discharges and hydrologic conditions likely to occur in the Sacramento Valley watershed and Delta. The Coalition's 2009 MRPP presents the technical rationale for selecting these representative monitoring locations and for the schedule for chlorpyrifos and diazinon monitoring.

Additional monitoring beyond the routine MRPP Core and Assessment monitoring will take place at existing Coalition monitoring sites in water bodies where at least one exceedance has occurred and that are directly tributary to the affected TMDL water bodies. Coalition efforts in these subwatersheds will include but not be limited to: (1) Continued monitoring at periods when peak pesticide application use occurs, (2) analysis of Pesticide Use Report (PUR) data, (3) holding subwatershed grower meetings, (4) continue to encourage and evaluate

implementation of management practices, and (5) address the seven compliance components described in the Basin Plan and listed below in conjunction with other entities identified as potential sources of discharges. Additional activities addressing Basin Plan and MRP Order requirements for source identification, outreach, and management practice evaluation are described in the Coalition's Management Plan.

The Coalition's monitoring frequency and locations for chlorpyrifos and diazinon will be evaluated and updated in the form of an addendum or annual updates to the Management Plan.

The seven Basin Plan requirements for TMDL compliance monitoring are:

1. Determine compliance with established water quality objectives and loading capacities in Sacramento-San Joaquin Delta and the Sacramento and Feather rivers;
2. Determine compliance with established waste load allocations and load allocations for diazinon and chlorpyrifos;
3. Determine the degree of implementation of management practices to reduce off-site migration of diazinon and chlorpyrifos;
4. Determine the effectiveness of management practices and strategies to reduce off-site migration of diazinon and chlorpyrifos;
5. Determine whether alternatives to diazinon and chlorpyrifos are causing surface water quality impacts;
6. Determine whether the discharge causes or contributes to a toxicity impairment due to additive or synergistic effects of multiple pollutants; and
7. Demonstrate that management practices are achieving the lowest pesticide levels technically and economically achievable.

The Coalition's approach to addressing these requirements is described below.

CHLORPYRIFOS AND DIAZINON BASIN PLAN MONITORING REQUIREMENTS

1. Determine compliance with established water quality objectives and the loading capacity concentrations applicable to diazinon and chlorpyrifos in the Sacramento-San Joaquin Delta and the Sacramento and Feather rivers.

The Coalition established monitoring sites within the Delta and in water bodies tributary to the Sacramento and Feather rivers, as described in the Coalition's 2009 MRPP and the 2010 MRP (CVRWQCB 2009). To demonstrate compliance with the Basin Plan TMDL limits, monitoring has been and continues to be conducted at Coalition monitoring sites receiving discharges from crops where pesticide applications are made. For sites that had at least one exceedance of diazinon or chlorpyrifos limits and do not currently have analyses scheduled for these pesticides, analyses for diazinon and chlorpyrifos were added for events during periods with the highest use and runoff potential for these pesticides. This monitoring will determine compliance with water quality objectives and allow the Coalition to evaluate compliance with the loading capacity concentrations.

Relevant Coalition monitoring locations and schedule for monitoring of chlorpyrifos and diazinon for the TMDL are presented in Table 1. Compliance with TMDL objectives and loading

capacity concentrations will be assessed at the 14 sites identified as compliance sites. These sites were selected because they are within the TMDL watersheds, are tributary to the TMDL water bodies, and have minimal non-agricultural influences. The schedule of regular ILRP monitoring for organophosphate pesticides at these compliance sites was advanced to begin in the year 2010 if they were not already being monitored by that date. The monthly timing of the Coalition's ILRP pesticide monitoring at individual sites is based on pesticide use patterns in each subwatershed, as characterized in the Coalition's approved 2009 MRPP. These schedules were retained for the TMDL monitoring in 2010 and 2011. Subsequent to the first year of TMDL monitoring, the need for continued compliance monitoring will be determined based on the results of the first year of TMDL monitoring at each site. The same sampling schedule will be continued in the following year if an exceedance is observed at a site. If no exceedances are observed, monitoring will revert to the assessment sampling schedule established in the Coalition's approved 2009 MRPP and 2010 MRP.

The California Department of Pesticide Regulation has documented the decline in use of insecticide organophosphate chemicals, including chlorpyrifos and diazinon, for nearly every year since 1995. Statewide diazinon use decreased by 63% and chlorpyrifos use decreased by 65% from 1997 to 2007^{1,2}.

From 2005 through 2009, there have been 449 samples collected for the ILRP and analyzed for chlorpyrifos and diazinon at Coalition sites in subwatersheds that are in or tributary to the TMDL watersheds. Results for Coalition ILRP monitoring are summarized in Table 2 and provided for each site in Table 3. There have been a total of only 23 exceedances of diazinon and chlorpyrifos (approximately 5% of samples) observed in Coalition ILRP monitoring. Of the 23 total exceedances, 16 have been for chlorpyrifos (~3.6% of total samples) and 7 have been for diazinon (~1.6% of total samples) (Table 2). These exceedances have been observed at six compliance sites and at six other sites. At 18 of the sites not identified as compliance sites, there have been no exceedances observed in Coalition ILRP monitoring (178 total samples), and at eight of the sites identified as compliance sites, there have been no exceedances observed in ILRP monitoring (113 total samples) (Table 3).

In separate TMDL monitoring performed by the Coalition, there were 2 diazinon exceedances observed at one of the proposed compliance sites (Colusa Drain) in 2008 TMDL monitoring conducted by the Coalition (SVWQC 2008a) and no exceedances observed in previous monitoring in 2006 and 2007. Chlorpyrifos was never detected in any TMDL monitoring sample. Although diazinon exceedances were observed in 2008, the majority of the 95 samples collected from 2006 through 2008 and all of the 21 concentrations estimated at the Sacramento River at Verona were in compliance with the TMDL objectives. The overall monitoring results for the Sacramento and Feather River diazinon TMDL indicate that the combination of outreach and education, and the resulting changes in diazinon use patterns, changes in management practices and modifications to labeling have been successful in reducing instream ambient diazinon and chlorpyrifos concentrations and loads below the historically observed levels that resulted in listing the Sacramento River and Feather River as impaired for diazinon and chlorpyrifos.

¹ <http://www.cdpr.ca.gov/docs/pur/pur06rep/trends06.pdf>, California Department of Pesticide Regulation, 2007

² http://www.cdpr.ca.gov/docs/pur/pur07rep/top100_ais.pdf, California Department of Pesticide Regulation, 2008

Changes that were implemented in Yolo County to make diazinon and chlorpyrifos restricted materials have proven successful in further increasing compliance. ILRP monitoring conducted at Yolo County sites since the implementation in 2007 of these additional restrictions have resulted in no additional exceedances in a total of 33 samples at 4 different sites sampled in the Solano–Yolo subwatershed (Willow Slough, Cache Creek, Ulatis Creek, and Shag Slough) (Table 3).

Based on the results of ILRP and TMDL monitoring there are many waterbodies that are already in compliance with the TMDL water quality objectives and the loading capacity concentrations applicable to diazinon and chlorpyrifos in the Sacramento-San Joaquin Delta and the Sacramento and Feather rivers. Compliance with these objectives and loading capacity concentrations is also equivalent to compliance with the TMDL's established load allocations (Section 2 below). Sites that are in compliance with the TMDL's objectives and loading capacity concentrations, and load allocations have demonstrated that outreach and education, the resulting changes in diazinon use patterns, and changes in management practices and modifications to labeling have been successful in reducing instream ambient diazinon and chlorpyrifos concentrations to the degree required by the TMDL. Consequently, these sites have no need to address TMDL goal 3 (*Determine the degree of implementation of management practices to reduce off-site movement of diazinon and chlorpyrifos*), TMDL goal 4 (*Determine the effectiveness of management practices and strategies to reduce off-site migration of diazinon and chlorpyrifos*), or TMDL Requirement 7 (*Demonstrate that management practices are achieving the lowest pesticide levels technically and economically achievable*). TMDL goals 5 and 6 will still be addressed for these sites as described in those sections below.

2. Determine compliance with established load allocations for diazinon and chlorpyrifos in Sacramento-San Joaquin Delta and the Sacramento and Feather rivers

The approved 2009 MRPP documents monitoring locations, schedules, and the areas that each sampling sites represents. To comply with the TMDLs, the Coalition will calculate instantaneous loads of diazinon and chlorpyrifos when they are detected by the compliance monitoring program. These estimated loads will be reported to Water Board ILRP staff as an appendix in Annual Monitoring Reports. Over time, determination of loads during the compliance monitoring period will provide an assessment of reductions in loading achieved by implementation of management practices and other control measures. These determinations are required to address monitoring goal 2, and will aid in addressing monitoring goals 3, 4, and 7.

3. Determine the degree of implementation of management practices to reduce off-site movement of diazinon and chlorpyrifos

The Coalition's Management Plan provides a description of the process of source identification, and evaluation of existing and additional management practice implementation needed to address potential water quality impairments due to registered pesticides. This process is already in progress for a number of management plan elements and will be implemented for additional subwatersheds determined to be contributing to diazinon or chlorpyrifos loading based on exceedances of objectives and loading capacities. These efforts include review of pesticide application data and surveys of management practice implementation. These surveys will be designed to collect data in the following areas relevant to TMDL compliance:

- Pesticide application, mixing, and loading practices.
- Pest management practices.
- Water management practices.
- Cultural practices.

The Coalition will utilize survey results to coordinate commodity group representatives, UC Cooperative Extension Advisors, and County Agricultural Commissioner educational efforts throughout important sub-regions of the valley. This may include County Agricultural Commissioners asking growers who obtain restricted materials and operator identification numbers if they intend to use diazinon or chlorpyrifos, and if so, reinforce the requirements of supplemental labels. This focused strategy will be integrated with the Coalition's drainage prioritization process to ensure that outreach efforts not only serve the purpose of educating growers regarding chlorpyrifos and diazinon use but also emphasize the value of a complete evaluation of cultural practices intended to enhance water quality. The Coalition will continue to conduct grower outreach meetings in the fall of each year in anticipation of the dormant application season.

In 2004, supplemental Federal label requirements for diazinon were issued by the manufacturer of diazinon to reduce impacts of diazinon used for dormant sprays in the Sacramento and San Joaquin Valleys (MANA 2004). In 2005, the California Department of Pesticide Regulation (CDPR) issued draft dormant spray regulations to address the impacts of the use of diazinon and chlorpyrifos as dormant spray pesticides in the Central Valley. The Staff Report supporting the Basin Plan amendments for these TMDLs concluded that by meeting the existing federal label requirements for diazinon dormant season applications and implementing the new DPR dormant spray regulations it was likely that growers would not need to implement additional management practices in the dormant season to meet the TMDL requirements. Growers in the Coalition's subwatersheds are expected to continue to implement current management practices as encouraged by grower organizations and commodity groups, and to implement management measures required by new supplemental label instructions and dormant spray regulations. Previous TMDL monitoring for the Sacramento and Feather rivers have demonstrated that the combination of these efforts have greatly increased compliance with the TMDL (SVWQC 2008a), and it is anticipated that they will also result in compliance with the Delta TMDL objectives by the March 2012 deadline.

4. Determine the effectiveness of management practices and strategies to reduce off-site migration of diazinon and chlorpyrifos

The Coalition's Management Plan provides a description of the process of source identification, evaluation of existing and additional management practice implementation needed, and the schedule for implementation of appropriate additional practices. Previous educational efforts and changes in management practices from the early 1990's to the present have been demonstrated to have a positive effect on the presence of chlorpyrifos and diazinon in the Sacramento and Feather River watersheds. Recent monitoring data indicates that chlorpyrifos and diazinon concentrations in the watershed have demonstrated a statistically significant decline between 1991 and 2001 (Hall 2001; Markle et al 2005.) More recent monitoring since 2001 also generally indicates a decrease in concentrations in ambient waters (Markle et al 2005). After the supplemental label instructions were fully implemented (they went into effect April 2004) and

the dormant spray regulations became applicable, it was anticipated that chlorpyrifos and diazinon concentrations would continue to decline. Based on the results of the Coalition's compliance monitoring for the Sacramento and Feather River TMDL, these measures have been demonstrated to be effective. Evaluations of the existing concentration and load data and future compliance monitoring results will be used to assess the cumulative effectiveness of management practices currently in use by growers and of previously implemented changes in management practices.

5. Determine whether alternatives to diazinon and chlorpyrifos are causing surface water quality impacts

The potential impacts of increased use of alternatives to chlorpyrifos and diazinon will be assessed primarily through ongoing monitoring being conducted according to the Coalition's 2009 ILRP MRPP (SVWQC 2008b). The ILRP includes monitoring for sediment and water column toxicity, as well as a variety of pesticides at a number of sites relevant to assessing potential impacts of pyrethroids (and other alternative pesticides). This monitoring also includes Toxicity Identification Evaluations (TIEs) and other analyses to identify causes of toxicity. Coalition monitoring sites have been selected to adequately represent irrigated orchards and other crops with high chlorpyrifos and diazinon use and thus to characterize this category and allow evaluation of the impacts of pesticide alternatives. Data from this monitoring will be evaluated to determine whether pyrethroids or other alternative pesticides may be causing surface water quality impacts. The Coalition-specific MRP (CVRWQCB 2009) developed by Water Board ILRP staff also requires a more inclusive evaluation of all pesticides used in these drainages during Assessment periods. The Coalition MRP monitoring was implemented in January 2010 and the next Assessment period will be in 2011.

In addition to the compliance monitoring results, other available evidence of the impacts of chlorpyrifos and diazinon alternatives will include an evaluation of trends in the use of these alternative pesticides using data in DPR's PUR database, and relevant results of sediment and water column monitoring conducted by SVWQC for the ILRP. These results will be summarized and included in the annual compliance reports to the Water Board.

6. Determine whether the discharge causes or contributes to a toxicity impairment due to additive or synergistic effects of multiple pollutants

A definitive assessment of the potential role of chlorpyrifos and diazinon in causing or contributing to additive, synergistic, or antagonistic toxicity effects due to multiple pollutants is beyond the scope of the proposed compliance monitoring program. A qualitative evaluation of the occurrence of these effects in compliance monitoring samples will be conducted based primarily on the results of *Ceriodaphnia* toxicity testing conducted by the Coalition for the ILRP assessment monitoring previously and going forward. Assessment monitoring for the program also includes analysis of a variety of other pesticides in addition to chlorpyrifos and diazinon, and as discussed previously, monitoring sites for this program adequately characterize runoff from irrigated land. The occurrence of well-documented additive effects with other metabolically activated pesticides with the same mode of action, and with less well-established synergistic or antagonistic effects with other pollutants, will be assessed based on observed co-occurrence of toxicity and detected diazinon and chlorpyrifos concentrations and the results of required

Toxicity Identification Evaluations (TIEs) on toxic samples. Results of these assessments will be reported annually with the compliance monitoring results.

7. Demonstrate that management practices are achieving the lowest pesticide levels technically and economically achievable

This requirement is met primarily by assessing the information collected to address goals 3 (determination of the degree of management practice implementation) and 4 (determination of the effectiveness of management practices and strategies). The Coalition's management plan (SVWQC 2009) already includes surveys of management practice implementation and evaluations of existing ILRP results and pesticide use to determine whether additional management practices are needed to achieve compliance with water quality objectives and ILRP trigger limits. The same evaluations will also be used to determine whether implemented practices are achieving the lowest concentrations technically and economically possible.

Grower implementation of the new chlorpyrifos and diazinon label requirements, combined with mandated changes in use of these products and other currently implemented management practices, are anticipated to reduce concentrations in surface waters of the Delta and Sacramento and Feather River basins to the lowest concentrations technically and economically possible. Adoption of the label requirements was not anticipated to create significant economic hardship, and diazinon user surveys conducted previously (Nusser and Murrill 2003; SVWQC 2006) indicated that many growers had already implemented or planned to implement the new label requirements in addition to other BMPs for protecting surface water.

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SVWQC 2008b. Monitoring and Reporting Program Plan. Prepared by Larry Walker Associates (Davis, California) for Sacramento Valley Water Quality Coalition (SVWQC). December 2008.

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Table 1. Sites and Schedule for SVWQC Diazinon and Chlorpyrifos TMDL Monitoring

Site ID	Location	Delta, Sacramento, or Feather River Basin Subarea	Delta Waterway?	Legal Delta?	ILRP Exceedances through 2009	Existing or new Pesticide Management Plan	OPs in 2009	OPs in 2010	OPs in 2011
TMDL Compliance Sites									
LSNKR	Lower Snake R. at Nuestro Rd	Feather River	NO	NO	2 chlorpyrifos	Chlorpyrifos	NO	JUL-AUG	JAN-FEB
SSKNK	Sacramento Slough bridge near Karnak	Sac. River, Northern Delta (~1 mile north of boundary)	NO	NO	None	NO	NO	JAN-FEB	TBD ⁽³⁾
GILSL	Gilsizer Sl. at G. Washington Rd	Sac. River	NO	NO	3 diazinon	Diazinon, malathion	JAN-FEB	JAN-FEB	TBD ⁽⁴⁾
LHNCT	Lower Honcut Creek at Hwy 70	Feather River	NO	NO	NA	NO	DEC-FEB, MAY-SEP	NO ⁽²⁾	TBD ⁽³⁾
PNCGR	Pine Creek at Nord Gianelli Rd	Sac. River	NO	NO	3 chlorpyrifos, 1 diazinon	Chlorpyrifos	MAY-SEP	NO ⁽²⁾	TBD ⁽³⁾
COLDR	Colusa Drain above KL	Sac River	NO	NO	2 diazinon ¹	NO	NO	JAN-AUG	TBD ⁽³⁾
WLKCH	Walker Creek at 99W and CR33	Sac River	NO	NO	3 chlorpyrifos	Chlorpyrifos	JAN-AUG	JUL-SEP	TBD ⁽³⁾
RARPP	Rough and Ready Pumping Plant (RD 108)	NW Delta	NO	NO	None	NO	NO	JAN-AUG	TBD ⁽⁴⁾
CCSTR	Coon Creek at Striplin Rd	Sac River	NO	NO	2 chlorpyrifos	Chlorpyrifos	MAY-SEP	NO ⁽²⁾	TBD ⁽³⁾
CRTWN	Cosumnes River at Twin Cities Rd	Eastern Delta	YES	YES	None	NO	NO	JAN-APR, OCT	TBD ⁽³⁾
GIDLR	Grand Island Drain near Leary Road	Northern Delta	NO	YES	None	NO	NO	JAN-APR, OCT	TBD ⁽³⁾

Site ID	Location	Delta, Sacramento, or Feather River Basin Subarea	Delta Waterway?	Legal Delta?	ILRP Exceedances through 2009	Existing or new Pesticide Management Plan	OPs in 2009	OPs in 2010	OPs in 2011
SSLIB	Shag Sl. At Liberty Island Bridge	NW Delta	YES	YES	None	NO	NO	JAN-SEP	TBD ⁽³⁾
WLSPL	Willow Sl. Bypass at Pole Line	NW Delta	NO	NO	3 chlorpyrifos	Chlorpyrifos, diuron, malathion	JAN, MAR, MAY, AUG	JAN, MAR, MAY, AUG	TBD ⁽³⁾
UCBRD	Ulatis Creek at Brown Road	NW Delta	NO	YES	1 diazinon (Sweany Creek)	Malathion	MAR-SEP	NO ⁽²⁾	TBD ⁽³⁾
Additional Monitoring Sites (not used as compliance sites)									
BTSL	Butte Slough at Pass Road	Sac. River	NO	NO	None	NO	NO	NO	NO
WADCN	Wadsworth Canal at S. Butte Rd	Feather River	NO	NO	1 diazinon	NO	NO	NO	NO
FRSHC	Freshwater Creek at Gibson Rd	Colusa Basin	NO	NO	None	NO	NO	NO	TBD ⁽³⁾
LGNCR	Logan Cr. at 4 Mile-Excelsior Rd	Colusa Basin	NO	NO	None	NO	NO	NO	NO
LRLNC	Lurline Creek at 99W	Colusa Basin	NO	NO	None	NO	NO	NO	NO
SCCMR	Stone Corral Creek near Maxwell Road	Colusa Basin	NO	NO	1 chlorpyrifos	NO	NO	NO	NO
STYHY	Stony Creek on Hwy 45 near Rd 24	Colusa Basin	NO	NO	1 chlorpyrifos, 1 diazinon	NO	NO	NO	NO
CCBRW	Coon Creek at Brewer Rd	PNSSNS	NO	NO	None	NO	NO	NO	TBD ⁽³⁾
DCGLT	Dry Creek at Alta Mesa Road	Eastern Delta	NO	NO	None	NO	NO	NO	NO
LAGAM	Laguna Creek at Alta Mesa Rd	Eastern Delta	NO	NO	None	NO	NO	NO	NO
CCCPY	Cache Cr. at Diversion Dam	NW Delta	NO	NO	None	NO	NO	NO	NO
TCHWY	Tule Canal at I-80	NW Delta	YES	YES	None	NO	NO	NO	NO
ZDDIX	Z Drain – Dixon RCD	NW Delta	NO	YES	None	NO	NO	NO	NO

- 1 Two exceedances were observed at COLDR during a single February 2008 TMDL monitoring event
- 2 No Exceedances in previous year of TMDL monitoring. Will be monitored next Assessment period.
- 3 Monitored for ILRP Assessment. Schedule To Be Determined based on PUR application data, per the 2010 MRP (CVRWQCB 2010).
- 4 Monitored for TMDL. Schedule To Be Determined based on PUR application data, per the 2010 MRP (CVRWQCB 2010).

Table 2. Summary of Diazinon and Chlorpyrifos Exceedances in Coalition ILRP Monitoring, 2005-2009

Data for Coalition subwatersheds in the TMDL region (Butte-Yuba-Sutter, Colusa-Glenn, Placer-Nevada-SSutter-NSacramento, Sacramento-Amador, Solano-Yolo)

Chlorpyrifos	Exceedances	Non-Exceedances	<i>Total Samples</i>
Compliance Sites	11	199	210
Other sites	5	234	239
<i>Total</i>	<i>16</i>	<i>433</i>	<i>449</i>

Diazinon	Exceedances	Non-Exceedances	
Compliance Sites	4	206	210
Other sites	3	237	240
<i>Total</i>	<i>7</i>	<i>443</i>	<i>450</i>

Table 3. Site Specific Compliance, ILRP Monitoring Results, 2005-2009

Subwatershed	Site Name	Compliance Site	Total Samples	Chlorpyrifos Exceedances	Diazinon Exceedances	Total Exceedances	Current TMDL Compliance	Notes
ButteYubaSutter	Butte Slough at Pass Road		14			0	yes	
	Gilsizer Slough at G. Washington Road	X	17		3	3	no	
	Lower Honcut Creek at Hwy 70	X	8			0	yes	
	Lower Snake R. at Nuestro Rd	X	16	2		2	no	
	Pine Creek at Nord Gianella Road	X	15	3	1	4	no	
	Sacramento Slough bridge near Karnak	X	7			0	yes	1
	Wadsworth Canal at South Butte Rd		15		1	1	no	
ColusaGlenn	Butte Creek at Gridley Rd Bridge		11			0	yes	
	Colusa Drain near Maxwell Road		12			0	yes	
	Colusa Basin Drain above KL	X	8			0	yes	2
	Freshwater Creek at Gibson Rd		16			0	yes	
	Logan Creek at 4 Mile-Excelsior Rd		16			0	yes	
	Lurline Creek at 99W		16			0	yes	
	Rough and Ready Pumping Plant (RD 108)	X	15			0	yes	
	Stone Corral Creek near Maxwell Road		12	1		1	no	
	Stony Creek on Hwy 45 near Rd 24		16	1	1	2	no	
	Stony Creek at 99W		1			0	yes	
	Stony Creek at County Road P		1			0	yes	
Walker Creek near 99W and CR33	X	8	1		1	no		
Walker Creek at Co Rd 48		16	2		2	no		
PlacerNevadaSSutter-NSacramento	Coon Creek at Brewer Road		16			0	yes	
	Coon Creek at Striplin Road	X	20	2		2	no	
SacramentoAmador	Big Indian Creek at Bridge		2			0	yes	
	Cosumnes River at Twin Cities Rd	X	12			0	yes	
	Dry Creek at Alta Mesa Road		6			0	yes	
	Grand Island Drain near Leary Road	X	8			0	yes	
	Laguna Creek at Alta Mesa Rd		17			0	yes	
	Laguna Creek below the Reclamation Canal		1			0	yes	
SolanoYolo	Cache Creek at Capay Diversion Dam		16			0	yes	
	Shag Slough at Liberty Island Bridge	X	25			0	yes	
	Sweany Creek at Weber Road		1		1	1	no	4
	Tule Canal at I-80		15			0	yes	
	Toe Drain at NE corner of Little Holland		2			0	yes	
	Ulatis Creek at Brown Road	X	30			0	yes	
	Willow Slough North Fk at CR99		1	1		1	no	5
	Willow Slough Bypass at Pole Line	X	21	3		3	no	3
	Dry Slough at CR99		1			0	yes	5
Z Drain – Dixon RCD		15			0	yes		
Grand Total			449	16	7	23		

- 1 TMDL monitoring for this site observed no exceedances of diazinon or chlorpyrifos in three years of monitoring.
- 2 TMDL monitoring for this site observed two exceedances of diazinon and no exceedances of chlorpyrifos in three years of monitoring.
- 3 No exceedances have been observed through 2009 at this site since implementation of additional restrictions by the Yolo County Agriculture Department in 2007
- 4 This site is a tributary to Ulatis Creek. It was sampled once as follow-up monitoring.
- 5 This site is a tributary to Willow Slough. It was sampled once as follow-up monitoring.