

Central Valley Regional Water Quality Control Board

23 March 2012

Mr. Joseph McGahan
Summers Engineering
P.O. Box 1122
Hanford, CA 93232

NOVEMBER 2011 SEMI-ANNUAL MONITORING REPORT REVIEW- WESTSIDE
SAN JOAQUIN RIVER WATERSHED COALITION

Thank you for submitting the Westside San Joaquin River Watershed Coalition (Coalition) Semi-Annual Monitoring Report (SAMR), which was received on 30 November 2011. Staff has completed a review (enclosed with this letter) of the SAMR for compliance with Monitoring and Reporting Program Order R5-2008-0831 (MRP Order).

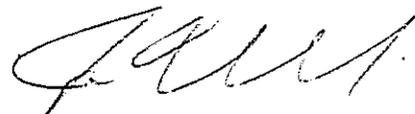
The Coalition's SAMR reports on MRP Order requirements, Total Maximum Daily Load (TMDL) activities, and Management Plan progress during the reporting period. Since the majority of the TMDL monitoring and Management Plan progress will be reported in the May 2012 chlorpyrifos/diazinon TMDL report, staff expects to see additional details regarding progress on the TMDL and Management Plan activities in the May report.

Staff identified six incomplete items that will need to be addressed in a revised SAMR, including numbers 6.2.2, 10.1, 19.1, 22.1, III.13, and item C (chlorpyrifos and diazinon TMDL). **Please submit the revised SAMR by 23 April 2012.** The attached Staff Memorandum and associated checklists further describe these items.

If you have any questions or comments regarding this letter or the attached review memorandum, or need any further information, please contact Susan Fregien at (916) 464-4813.



Susan Fregien, Senior Environmental Scientist
Monitoring and Implementation Unit
Irrigated Lands Regulatory Program



Joe Karkoski, Program Manager
Irrigated Lands Regulatory Program

Enclosure: Staff Review of Westside San Joaquin River Watershed Coalition SAMR
Semi-Annual Monitoring Report Review Checklist

Central Valley Regional Water Quality Control Board

23 March 2012

FILE

APPROVED	
Author	<u>CJ</u>
Senior	<u>SLF/AMR</u>

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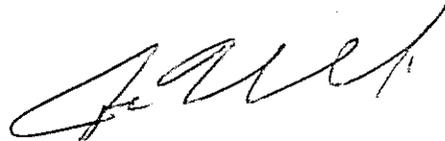
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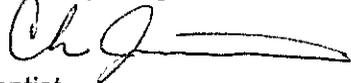
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Enclosure: Staff Review of Westside San Joaquin River Watershed Coalition SAMR
Semi-Annual Monitoring Report Review Checklist

Central Valley Regional Water Quality Control Board

TO: Susan Fregien
Senior Environmental Scientist
Monitoring and Implementation Unit
Irrigated Lands Regulatory Program

APPROVED	
Author	<u>CJ</u>
Senior	<u>SLF</u>

FROM: Chris Jimmerson 
Environmental Scientist
Monitoring and Implementation Unit
Irrigated Lands Regulatory Program

DATE: 17 January 2012

SUBJECT: NOVEMBER 2011 SEMI-ANNUAL MONITORING REPORT REVIEW-
WESTSIDE SAN JOAQUIN RIVER WATERSHED COALITION

The California Regional Water Quality Control Board, Central Valley Region (Central Valley Water Board) received the 30 November 2011 Irrigation Season Semi-Annual Monitoring Report (SAMR) from the Westside San Joaquin River Coalition (Coalition). The SAMR covers the monitoring period from March 2011 through August 2011 (Sampling Events 77 through 82). The SAMR also reports on activities from the three focused management plans: Focused Management Plan I - Hospital and Ingram Creek, Focused Management Plan II - Westley Wasteway, Del Puerto Creek and Orestimba Creek, and Focused Management Plan III - Salt Slough. The SAMR was submitted to meet the requirements of Monitoring and Reporting Program Order R5-2008-0831 (MRP Order) and the associated Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands adopted by the Regional Board on 1 July 2006 (Order No. R5-2006-0053).

The review section numbers in this memorandum are the same as the section numbers used in the SAMR Checklist (see attached). Staff derived the checklist directly from the MRP Order and it provides an itemized account of the compliance components. If the SAMR text necessitated staff comment, this memorandum provides a discussion. Generally, a discussion is not provided for those items that met the compliance components but they are addressed in the attached checklist.

Staff identified six incomplete items that will need to be addressed in a revised SAMR, including numbers 6.2.2, 10.1, 19.1, 22.1, III.13, and item C (chlorpyrifos and diazinon TMDL). These corrections should be addressed in a revised SAMR submitted by the Coalition.

A. MRP ORDER REQUIREMENTS

Item 6.2.2:

The SAMR could benefit from tabulating the specific analytes along with the site name and monitoring schedule to better represent the Coalition's monitoring obligations and

KARL E. LONGLEY ScD, P.E., CHAIR | PAMELA C. CREEDON, EXECUTIVE OFFICER

accomplishments. For example, on page 5, Table 3 of the report, the pesticides are grouped by class and not specifically named. The pesticides, including all analytes, should be specifically named so the reader knows exactly what the Coalition is monitoring during the reporting period. A table like this should be provided in a revised SAMR. This was noted in the previous SAMR review.

Item 6.2.4:

It would be appropriate to primarily report the activities that have occurred since the last SAMR. For example, on page 27, the Coalition discusses participation in the dissolved oxygen study and an *E.coli* study. Nearly all of that discussion was reported in the previous SAMR. In addition, the Attachment 6 Management Plan Activities section primarily re-reports details presented in the last SAMR. The text should exclude what has already been reported in previous SAMRs or specifically distinguish between this reporting period and the last reporting period.

Item 10.1:

Page 24 discusses that the Coalition tested for more than 5,400 pesticides, but staff believes the Coalition means the number of tests conducted not the number of pesticides tested, as the text otherwise suggests. The text should be rewritten because it is misleading to the number of specific pesticides tested, which is about 60. This should be corrected in a revised SAMR.

Item 19.1

According to the SAMR, five malathion detections were observed at four different sites during the reporting period. According to the Basin Plan, malathion is under a discharge prohibition unless the grower is following Central Valley Water Board approved management practices. Since growers in the Coalition's region do not have Central Valley Water Board approved management practices for malathion, the SAMR should provide information on the actions taken to address the malathion detections. It is conceivable that management practices addressing other pesticides are effective in managing malathion, but no information is included in the SAMR to corroborate this. The Coalition will need to provide the actions it will take to address malathion in a revised report.

Item 19.2.3

Staff acknowledges that pesticide use reports tend to be unavailable until months after the pesticide is applied. Consequently, the Coalition was only able to procure pesticide use information from 2010 because it was the most current complete record. A graph and table are presented on page 15 of the SAMR presenting county use and pesticide class by county for the most commonly applied pesticides. The Coalition should be presenting all the pesticides applied not just the most common, as per page 22 of the MRP, Exceedance Reporting requires.

Item 22.1:

Page 34 compares monitoring results from the most recent three year monitoring period (September 2008 - August 2011) to the previous three year period (July 2004 - August 2007) to show improvements in water quality. Three years is a good range for comparing water quality because the Basin Plan also uses a three year period to activate a Management Plan if more than one exceedance occurs within the period. The Coalition stated that chlorpyrifos exceedances were reduced by 12 and diazinon exceedances were reduced by 8. Further, sediment toxicity exceedances were reduced by 12 and *E.coli* exceedances were reduced by 94. Those reductions should be supported by reporting both the percentage of exceedances

(No. of exceedances ÷ No. of tests x 100) and the number exceedances/tests for comparison. The Coalition will need to provide this in a revised report.

The Coalition should also evaluate water quality monitoring results before and after the implementation of new management practices to weigh management practice effectiveness to improve water quality.

B. MANAGEMENT PLAN ACTIVITIES

This section includes updates to the Management Plan activities for Focus Plan I (Ingram and Hospital Creeks) and Focus Plan II (Del Puerto Creek, Westley Wasteway, and Orestimba Creek watersheds). Detailed information regarding Focus Plan III will be provided in the next SAMR because the Focus Plan III was approved after submitting this SAMR.

Item II.12, III.12

As per the Central Valley Water Board's 17 February 2012 request to develop a joint approach to address *E.coli*, any *E.coli* Management Plan deliverables are suspended. However, staff is providing the following comments. Page 27-28 discusses that residences may contribute to *E.coli* detections through leaking septic tanks. The SAMR provides maps presented in Attachment 6 that report the locations of those residences. Staff will need more evidence to substantiate that residences are a significant source of *E.coli*. For example, the Coalition could present *E.coli* sampling data obtained near the residences, present the amount of manure applications in the area, determine the amount of drainage from wetlands, and map any dairies that could influence *E.coli* results. These could be used as lines of evidence to support sources of *E.coli*.

Item II.16

The Coalition provides private grant funding to growers who wish to install sedimentation ponds. For this reporting period, the Coalition did not receive any requests for private grant funding assistance. Therefore, no new funding was distributed. According to the SAMR, the Coalition is providing outreach to its members about grant funding availability. The Coalition's milestone is to distribute 50% of the Coalition grant funds within the Focused Plan II subwatersheds annually to clean/construct sediment basins.

Proposition 84, another funding source, provides a 50% match of the total project cost. Twelve applications were received for installing drip or micro irrigation systems. Most project construction is expected to be completed by spring 2012.

Item II.18

The Coalition provides the percent of irrigated acreage using high efficiency irrigation systems (drip systems). During this reporting period, the number of acres using high efficiency irrigation systems increased by 6,000 acres, as compared to the last reporting period.

Item II.19

Attachment 6, Table A6-2. of the SAMR presents the acreage and percent of irrigated acreage of PAM applications for the Focus Plan I and Focus Plan II subwatersheds. The acreage data were collected through management practice surveys. The percentages reported in Table A6-2 are the same as the previous SAMR. According to the Focused Management Plans, the

Coalition is not required to mail out additional surveys since conducting the last survey for the Focused Plans. However, the Coalition's milestone for PAM is to increase its use on surface irrigated row crops in the Del Puerto Creek and Orestimba Creek subwatersheds to 60% by the end of March 2013. Staff expects that the Coalition will re-survey their members to determine its milestone success.

Item III.13

The Coalition has identified buffer zones in Del Puerto and Orestimba Creek watersheds. Mapping of these zones was due in this SAMR according to the approved August 2011 Performance Goals. The Coalition will need to either provide the maps in a revised SAMR if the information is available or inform staff when it will complete the maps.

The SAMR did not indicate the acreage affected or how many spray rigs the Coalition has calibrated for the year. According to the Focused Plan II Performance Goals, the Coalition should calibrate at least 10 ground spray rigs and report the affected acreage in this SAMR. The Coalition will need to provide staff with the information in a revised SAMR.

Item IV:

The Coalition did not report any details regarding the Central Valley Water Board approved Focus Plan III (Salt Slough) because the 28 December 2011 Focus Plan III was approved after submittal of the 30 November SAMR. However, according to the SAMR, the surveys for Focused Plan III are being circulated and the Coalition held an outreach meeting in August 2011.

C. BASIN PLAN - TMDL REQUIREMENTS

The discussion of Sacramento and San Joaquin River Basin Plan TMDL requirements has been divided according to the appropriate TMDLs that the Coalition is required to implement, including Chlorpyrifos and Diazinon, Dissolved Oxygen, and Salt and Boron TMDLs.

San Joaquin River Chlorpyrifos and Diazinon TMDL:

As part of the monitoring design, the ESJWQC and Westside Coalitions split and coordinated the monitoring at the six SJR TMDL Basin Plan sites. The ESJWQC is responsible for monitoring at: (1) San Joaquin River (SJR) at the Airport Way Bridge near Vernalis, (2) SJR at the Maze Boulevard, and (3) SJR at Hills Ferry. The Westside is responsible for monitoring at: (4) SJR at Las Palmas Avenue near Patterson, (5) SJR at Highway 165 (Lander Ave) near Stevenson, and (6) SJR at Sack Dam. Staff acknowledges that reporting details will be presented in the May 2012 TMDL report.

The Coalition provided a brief summary of TMDL monitoring results on page 33. According to the Coalition, the monitoring results indicate that chlorpyrifos was not detected during the reporting period at the Westside Coalition sites. Staff did not find any discussion of diazinon results in this section, which should have been discussed as part of the TMDL reporting. Hence, staff contacted the Coalition on 11 January asking for diazinon sampling results. The Coalition provided diazinon sampling results confirming no detections of diazinon or chlorpyrifos were observed during the reporting period and stated that the full data set is included in the APPL laboratory reports. Diazinon TMDL detection results should be discussed in this section and will need to be included in a revised SAMR.

San Joaquin River Dissolved Oxygen TMDL:

See attached checklist.

San Joaquin River at Vernalis Salt and Boron TMDL:

See attached checklist.

Westside Coalition Semi-Annual Monitoring Report (SAMR) Review Checklist

Report Name: Semi-Annual Monitoring Report, Westside SJ River Watershed Coalition					Reviewer Name: Chris Jimmerson					
Submittal Date: 30 August 2011					Review Date: 12/15/11 - 3/14/12					
Item No.					A Acceptable	U Unacceptable	NI Not Included or Incomplete	NA Not Applicable	Page # (Section #)	Comments
SAMR Component Name										
1	Signed Transmittal Letter									
1.1			Transmittal letter included		X					
1.2			Penalty of Perjury Statement		X					
1.3			Signature of Authorized Coalition Representative		X					
1.4			Dated		X					
1.5			Submitted by Deadline		X					
2	Title Page									
2.1			Report title		X					
2.2			Date of the report		X					
2.3			Monitoring date range covered by the report		X					
2.4			Coalition Group name		X					
3	Table of Contents									
3.1			List of sections or chapters with page numbers		X					
4	Executive Summary									
4.1			Brief summary of activities		X				1,2	
4.2			Brief summary of results		X				1,2,7,8	
4.3			Brief summary of conclusions		X				33,34	
5	Description of the Coalition Group Geographical Area									
5.1			General description of relevant geographic features of the Coalition area, such as location and extent of area, major landforms, land uses, vegetation types, crop types, climate patterns, key waterways, and cities		X				3, 9-12	
6	Monitoring Objectives and Design									
6.1			Monitoring Objectives							
6.1.1			List or brief description of monitoring objectives based on MRP Plan		X				4,18	
6.1.2			Reference to MRP Plan section and page number where detailed monitoring objectives are found					X		
6.1.3			Reference to QAPP section and page number where detailed monitoring objectives are found					X		
6.2			Monitoring Design							
6.2.1			Aligns with monitoring design description in MRP Plan		X					
6.2.2			Monitoring parameters					X		The MRP required monitoring analytes should be specifically listed in the SAMR, rather than listing as OPs, OCs, and carbamates. Comment repeated from June 2011 SAMR review. The SAMR will need to be revised by 4/16/12.
6.2.3			Monitoring frequency		X				4	
6.2.4			Time period of monitoring covered in the report		X					SAMR re-reports activities already reported. Recommend reducing already reported activities.
6.2.5			Brief description of Management Plan monitoring		X				Attachment 6	
6.2.6			Description of any deviation from the MRP Plan or QAPP					X		
6.2.2			Reference to MRP Plan section and page number where detailed monitoring design is found					X		
6.2.3			Reference to QAPP section and page number where detailed monitoring design is found					X		
7	Sampling site descriptions and rainfall records for the time period covered under the SAMR									
7.1			Sampling Site Descriptions							
7.1.1			Site Name		X				12	
7.1.2			Site Identification Number		X				Attachment 1	
7.1.3			GPS Coordinates		X				12	
7.1.4			Description of site representativeness (i.e. what geographic area, watershed, crop type does the site represent)		X				9-12	
7.1.5			Site-specific monitoring type (core, assessment, special project) information		X				5	
7.1.6			Any other unique information about the site or surrounding area		X				9-12	

Westside Coalition Semi-Annual Monitoring Report (SAMR) Review Checklist

Item No.	SAMR Component Name	A Acceptable	U Unacceptable	NI Not Included or Incomplete	NA Not Applicable	Page # (Section #)	Comments
7.2	Rainfall Records						
7.2.1	Graphic or narrative form, in inches of precipitation	X				7	
8	Location map(s) of sampling sites, crops and land uses						
8.1	Map(s)						
8.1.1	Sampling Sites with informative level of detail	X				13	
8.1.2	Crop Types with informative level of detail	X				14,15	Provided in text
8.1.3	Land Uses with informative level of detail	X				9-11, 14-15	Provided in text
8.1.4	Datum identified on map as either WGS 1984 or NAD 1983	X				Subwatershed maps	
8.1.5	Source and date of all data layers identified on map	X				Subwatershed maps	
8.2	List or Table of Monitoring Site Information						
8.2.1	Site name	X				9-12	
8.2.2	Site identification number	X				9-12	
8.2.3	GPS coordinates at latitude and longitude in decimal degrees to at least five decimal places	X				9-12	
9	Tabulated results of all analyses arranged in tabular form so that the required information is readily discernible (example table is included in MRP Order Attachment C)						
9.1	Data is in tabular form	X				Appendix A	
9.2	Data is clearly organized (i.e. readily discernible)	X				Appendix A	
9.3	Tabulated results agree with the electronic data submittal results	X				23, Appendix B	
9.4	Tabulated results agree with results discussed in the text	X				Exceedance tally, Attachment 5	
9.5	Previously reported exceedances match exceedances identified in the SAMR	X				Appendix A	Reviewed 10% of exceedance reports and compared to SAMR
9.8	All required constituents for each site have reported results			X		Appendix A, Attachment 5	SAMR could benefit from tabulating the required analytes with site name and monitoring schedule. The SAMR will need to be revised by 4/16/12.
9.9	All toxic events were re-sampled and results reported				X		
9.10	10% check on the QC data came back ok	X				16,17,18 Attachment 3	
10	Discussion of data to clearly illustrate compliance with the Coalition Group Conditional Waiver, water quality standards, and trigger limits						
10.1	Data discussion to illustrate compliance with the Conditional Waiver terms and conditions			X		16-25	Page 24 says the Coalition tested for more than 5400 pesticides when the Coalition might mean tests. This should be rewritten because it is misleading to the number of specific pesticides tested, which is about 60. The SAMR will need to be revised by 4/16/12.
10.1.1	Where compliance not achieved, explanation of why required component not met				X		
10.2	Data discussion to illustrate compliance with water quality standards and trigger limits	X				18-24	
10.2.1	Where compliance not achieved, explanation of missing data and/or reason for non-compliance	X					Some samples not collected due to unsafe access or dry conditions.
11	Electronic data submitted in a SWAMP comparable format						
11.1	Electronic submittal data package in spreadsheet format						
11.1.1	Lab data is entered and submitted within the ILRP SWAMP comparable data spreadsheets	X					Currently utilizing electronic data feedback to identify data not meeting submittal standards.
11.1.2	ILRP SWAMP comparable field sheets in paper copy				X		
12	Sampling and analytical methods used						
12.1	Description of sampling methods used	X				QAPP, Field sampling manual	More description found in QAPP, Field sampling manual.
12.2	Description of analytical methods used	X				6,18, table 4, Appendix C	
13	Copy of chain-of-custody forms						
13.1	Copies of all COCs are included	X				Appendix A	
13.2	COCs are legible	X				Appendix A	
13.3	COCs are completed accurately	X				Appendix A	
14	Field data sheets, signed laboratory reports, laboratory raw data (as identified in Attachment C)						
14.1	Field Data Sheets						

Westside Coalition Semi-Annual Monitoring Report (SAMR) Review Checklist

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				SAMR Component Name						
		14.1.1		If Coalition chose Option A for electronic data submittal package, field data sheets are the ILRP SWAMP comparable field data sheets (see 11.1) in paper copy	X				Appendix C	
		14.1.2		Copies of all field data sheets are attached to AMR or provided electronically in attached CD (see 14.1.1)	X				Appendix C	
		14.1.3		Field sheets are completely filled in	X				Appendix C	
		14.1.4		Field sheets are legible	X				Appendix C	
	14.2			Toxicity Lab Reports						
		14.2.1		All toxicity lab reports included as attachments to the SAMR OR electronically on a CD	X				Appendix C, PER	
		14.2.2		All toxicity lab report copies submitted are complete	X				Appendix C, PER	
		14.2.3		All toxicity lab reports are signed by authorized lab representative	X				Appendix C, PER	
		14.2.4		Toxicity lab narrative describes all QC failures, analytical problems and anomalous occurrences	X				Appendix C, PER	
		14.2.5		All raw lab data for acceptable toxicity tests is included	X				Appendix C, PER	
		14.2.6		All raw lab data for failed toxicity tests is included				X		
		14.2.7		All original bench sheets showing results of individual replicates, such that all calculations and statistics can be reconstructed	X				Appendix C, PER	
		14.2.8		All QC sample results including field and lab blanks, lab control spikes, matrix spikes, field and lab duplicates, and surrogate recoveries are included	X				16,17,18	Met completeness and acceptability criteria for accuracy and precision.
	14.3			Chemistry Lab Reports						
		14.3.1		All chemistry lab reports included as attachments to the SAMR OR electronically on a CD	X				Appendix C -Appl, Caltest	Events 77-82 lab reports. Included on CD
		14.3.2		All chemistry lab report copies submitted are complete	X				Appendix C -Appl, Caltest	
		14.3.3		All chemistry lab reports are signed by authorized lab representative	X				Appendix C -Appl, Caltest	
		14.3.4		Chemistry lab narratives describe all QC failures, analytical problems and anomalous occurrences	X				Appendix C -Appl, Caltest	Most failures are due to outside of acceptable recovery limits, however, >90 percent of tests are within limits.
		14.3.5		All sample results for contract and subcontract labs including units, RLs and MDLs are included	X				Appendix C -Appl, Caltest	
		14.3.6		Sample preparation, extraction, and analysis dates are included	X				Appendix C -Appl, Caltest	
		14.3.7		All QC sample results including field and lab blanks, lab control spikes, matrix spikes, field and lab duplicates, and surrogate recoveries are included	X				Appendix C -Appl, Caltest	
	15			Associated laboratory and field quality control samples results						
				These requirements covered under section 14						
	16			Summary of Quality Assurance Evaluation results (as Identified in Attachment C for Precision, Accuracy and Completeness)						
		16.1		Quality Assurance Evaluation for LAB Data						
		16.1.1		Acceptance criteria for all measurements of precision and accuracy are listed and coincide with ILRP requirements in MRP Attachment C, Appendix B	X				18, Appendix D	100% PER Lab acceptance criteria met. 96% APPL Lab acceptance criteria met. 98% Caltest Lab acceptance criteria met.
		16.1.2		QA/QC results that did not meet acceptance criteria are identified in a table or narrative description that is prepared by the Coalition (not lab)	X				18, Appendix D	98% within criteria range.
		16.1.3		Discussion of how the failed QA/QC results affect the validity of the reported data	X				18, Appendix D	
		16.1.4		Discussion of corrective actions for QA/QC results that did not meet acceptance criteria is included	X				18, Appendix D	No corrective action required
		16.1.5		Calculation of completeness (percentage of QC data that met acceptance criteria and a determination of project completeness based on this)	X				18	
		16.1.6		Document and discuss any adjustments made to acceptance criteria	X				Appendix E.	No adjustments
		16.1.7		Laboratory exception reports are included when samples are reanalyzed due to exceedance of the linear range				X		
	16.2			Quality Assurance Evaluation for FIELD Data						
		16.2.1		Acceptance criteria for all measurements of precision and accuracy are listed and coincide with ILRP requirements in MRP Attachment C, Appendix B	X				16,17	
		16.2.2		QA/QC results that did not meet acceptance criteria are identified in a table or narrative description that is prepared by the Coalition (not lab)	X				Appendix C	Calibration sheets for field data complete and within acceptance criteria.
		16.2.3		Discussion of how the failed QA/QC results affect the validity of the reported data				X		

Westside Coalition Semi-Annual Monitoring Report (SAMR) Review Checklist

Item No.	SAMR Component Name	A Acceptable	U Unacceptable	NI Not Included or Incomplete	NA Not Applicable	Page # (Section #)	Comments
16.2.4	Discussion of corrective actions for QA/QC results that did not meet acceptance criteria				X		
16.2.5	Calculation of completeness (percentage of QC data that met acceptance criteria and a determination of project completeness based on this)				X		
16.2.6	Document and discuss any adjustments made to acceptance criteria				X		
17	Specification of the method(s) used to obtain flow at each monitoring site during each monitoring event						
17.1	The method used to obtain flow measurement at each monitoring site during each monitoring event is listed	X				9, 10, 11, 12	Weir measured, reported by CDEC, or by velocity calculation.
18	Electronic or hard copies of photos obtained from all monitoring sites, clearly labeled with site ID and date						
18.1	Photos are included for each monitoring site for every monitoring event, either electronically or in hard copy	X				Appendix E	
18.2	Each photo is clearly labeled with site ID and date	X				Appendix E	
18.3	Photos are descriptive and useful	X				Appendix E	
19	Summary of exceedances occurring during the reporting period and related pesticide use information						
19.1	Summary of Exceedance Reports submitted during the AMR period			X		Attachment 5,	PDF of exceedance reports provided in SAMR and summary of exceedances. Five malathion exceedances during reporting period are a concern. Malathion is under a discharge prohibition. The SAMR will need to be revised by 4/16/12 explaining next steps.
19.1.1	Summary includes all needed exceedance reports	X				Appendix B, Attachment 5,	Exceedance reports provided in appendix.
19.2	Pesticide Use Data						
19.2.1	Pesticide use data is included for all pesticide and toxicity exceedances occurring during the SAMR time period (except those that fall under a Management Plan)	X				14, 15, 27	2010 pesticide use data is most current available.
19.2.2	Pesticide use data is directly relevant to the monitoring sites where exceedances occurred	X				14, 15, 27	Pesticide use is grouped by county use. 2010 PUR data is the most recent available. Staff acknowledges that pesticide use data is only directly relevant to the county where it is applied.
19.2.3	Pesticide use data includes all pesticides applied within the monitoring site drainage area during the four weeks prior to the measured exceedance			X		14, 15, 27	Pesticide use is grouped by county use and includes the 10 most common pesticides applied for 2010, which is the most recent pesticide use available. The pages do not list all the pesticides applied, as the MRP, page 22, requires.
20	Actions taken to address water quality exceedances that have occurred, including but not limited to, revised or additional management practices implemented						
20.1	Discussion of actions taken to address water quality exceedances during the time frame of the SAMR is included	X				29-31	6k acres of high efficiency irrigation systems came on-line in 2011 irrigation season. Held 20 grower meetings within subwatersheds.
20.2	Actions taken to address the exceedances are adequate	X				25-33, Attachment 6	Narratives of the focused management plans are also included.
21	Status update on preparation and implementation of all Management Plans and other special projects	X				Attachment 6	Updates for PAM usage, high efficiency irrigation system installation, and management practice surveys are no different than the last reporting period. Attachment 6 should focus on activities that occurred during the reporting period rather than what occurred in prior reporting periods. It is difficult to determine if any new activities occurred during this reporting period.
22	Conclusions and recommendations						

Westside Coalition Semi-Annual Monitoring Report (SAMR) Review Checklist

Item No.	SAMR Component Name	A Acceptable	U Unacceptable	NI Not Included or Incomplete	NA Not Applicable	Page # (Section #)	Comments
22.1	Conclusions are supported by the data presented in the SAMR			X		18-34	The noted exceedance reduction discussed in the SAMR text when comparing July 2004 - August 2007 to September 2008 - August 2011 should be augmented with listing the number of sample sites and tests. Rather than only listing the number of exceedances, the Coalition should report both the percent exceedance and number of exceedances/tests. The SAMR will need to be revised by 4/18/12 regarding exceedance reporting. Going forward the Coalition should consider comparing periods of when management plans were put in place to current conditions.
22.2	Discussion is adequately detailed	X				18-34	Pyrethroids concluded most often cause of sediment toxicity. Management practices to implement will most likely be sediment control. Ceriodaphnia toxicity causes either unknown (pesticides non-detect) or chlorpyrifos.
22.3	Recommendations are appropriate and adequately detailed	X				33,34	

Westside Coalition Semi-Annual Monitoring Report (SAMR) Review Checklist

Report Name: Westside Semi-Annual Management Plan			Reviewer Name: Chris Jimmerson			
Submittal Date: 30 August 2011			Review Date: 12/15/11 - 3/14/12			
Item No.	Management Plan Check List Components	Review			Document(s) Page No. (Section No.)	Comments
		Acceptable A	Unacceptable U	Incomplete I		
	I. Westside Management Plan General Approach					
I.1	Continue a water quality monitoring program	x			26, Attachment 6	
I.2	Develop and implement Focused Watershed Management Plans	x			26, Attachment 6	Focused Plan I and II underway. Salt Slough, Focus Plan III approved in December 2011.
I.3	Compile Management Practices Inventory	x			26, Attachment 6	Table A6-1 reports acreage that have high efficiency irrigation systems. Table A6-2 reports PAM usage by number of acres. Table A6-3 summarizes management Practices surveyed. Focus Plan III survey has been developed and distributed to growers. 6000 additional acres have utilized high efficiency irrigation systems during the reporting period.
I.4	Develop subwatershed maps	x			27, Attachment 6, subwatershed maps	Ongoing activity, completion date scheduled for Jan. 2013.
I.5	Determine regional pesticide application	x			27	Pesticide use report data is collected from the agricultural commissioners in the various counties occupied by the Westside Coalition. Obtaining timely pesticide use information is getting more difficult. As a result, pesticide use information availability limits the usability to track trends.
I.6	Continue participation in Dissolved Oxygen Study	x			27	Coalition working to provide funding for operation of an aerator installed by DWR. A funding agreement anticipated to be completed within the next few months.
I.7	Analyze results of E. coli study and map/inventory potential sources			x	27-28	As per Central Valley Water Board 2/10/12 letter, management plan actions regarding e.coli are suspended.
I.8	Continue outreach and education efforts	x			28-30 Attachment 6	Twenty grower meetings held during reporting period. Outreach included individual grower meetings in response to May chlorpyrifos exceedances. Notices and certified letters sent to potential sources. Coalition continues to offer grant funding, although no takers during this reporting period.
I.9	Analyze for correlation between low DO and other parameters	x			30	
I.10	Continue participation in Salinity TMDL program	x			30, 31	Coalition participating in CV-Salt.

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Item No.	Management Plan Check List Components	Acceptable			Document(s) Page No. (Section No.)	Comments
		A	U	I		
I.11	Track changes in water quality	x			31-33	Narrative provides brief summaries.
II. Westside Focused Watershed Management Plan I Ingram and Hospital Creeks ⁽²⁾						
II.1	Source Identification - Identify parcels	x			Attachment 6	Identified Ingram Creek, Hospital Creek, Westley Wasteway, Del Puerto Creek, and Orestimba Creek as problem areas to develop management plans.
II.2	Development of survey document	x			Attachment 6	100% returned to Coalition
II.3	Completion of grower survey	x			Attachment 6	Completed in 2009
II.4	Finalize management practice survey findings, develop baseline MP inventory	x			Attachment 6	Table A6-1 reports acreage that have high efficiency irrigation systems. Table A6-2 reports PAM usage by number of acres. Table A6-3 summarizes management Practices surveyed.
II.5	Determine effective MPs and develop next steps	x			Attachment 6	Long term MPs include: construct sediment basins, drip irrigation, reduce pesticide use, calibrate spray rigs, address overspray, increase buffer strips, implement more PAM use.
II.6	Detailed subwatershed maps	x			Subwatershed Maps	Provided maps reporting areas where drip systems and tail water ponds are in use.
II.7	Determination of pesticide use baseline	x			15, 16	Determined through PUR and application timing and rate of application. PURs becoming less useful because data is dated.
II.8	Identification of management practices to be implemented	x			Attachment 6	Completed in last SAMR
II.9	Intensified outreach to growers	x			Attachment 6	Held outreach meetings and individual meetings.
II.10	Approach to implement additional management practices	x			Attachment 6	Surveys, individual meeting, implementation.
II.11	Monitoring to determine management practice effectiveness	x				
II.12	E. coli watershed-specific field surveys to identify potential agricultural contributions			x	26	Focus plan surveying to collect information on manure usage and locations of septic systems. SAMR text did not provide information on manure usage. However, as per Central Valley Water Board 2/10/12 letter, Management Plan actions regarding e.coli are suspended.
II.13	Develop specific performance goals and a schedule	x			Attachment 6	Performance goals developed for Ingram, Hospital creeks, Westley Wasteway, Del Puerto Creek, Orestimba Creek.
II.14	Surveillance-Level Monitoring	x			Attachment 6	
II.15	Constituent-specific monitoring	x			Attachment 6	

Westside Coalition Semi-Annual Monitoring Report (SAMR) Review Checklist

Item No.	Management Plan Check List Components	Acceptable	Unacceptable	Incomplete	Document(s) Page No. (Section No.)	Comments
		A	U	I		
II.16	Develop grant program to assist with costs of installing and maintaining tailwater ponds	x			Attachment 6	The Coalition has provided ~\$10,000 in grant funding for installation and cleanout of sedimentation ponds thus far. No additional grant funding reported during this reporting period. Outreach efforts include specific information on grant funding availability.
II.17	Increase the number and use of tailwater ponds and tailwater return systems	x			30	Two tailwater return projects identified in Hospital Creek and Ingram Creek areas, funding being sought.
II.18	Encourage conversion to drip/micro sprinkler irrigations systems	x			Attachment 6	See Table A6-1 of SAMR
II.19	Encourage usage of PAM on field crops	x			Attachment 6	
II.20	Create/distribute maps of areas that are sensitive to aerial overspray	x			Attachment 6	
II.21	Establish baseline and feasibility of increased size of buffer zones	x			Attachment 6	
II.22	Process & schedule for evaluating management practice effectiveness	x			Attachment 6	
III. Westside Focused Watershed Management Plan II Westley Wasteway, Del Puerto Creek, Orestimba Creek						
III.1	Source Identification - Identify parcels				Attachment 6	
III.2	Development of survey document	x			Attachment 6	Surveys complete
III.3	Completion of grower survey	x			Attachment 6	Surveys complete
III.4	Finalize management practice survey findings, develop baseline MP inventory	x			Attachment 6	Surveys complete
III.5	Determine effective MPs and develop next steps	x			Attachment 6	
III.6	Detailed subwatershed maps	x			Attachment 6	
III.7	Determination of pesticide use baseline	x			Attachment 6	
III.8	Identification of management practices to be implemented	x			Attachment 6	
III.9	Intensified outreach to growers	x			Attachment 6	
III.10	Approach to implement additional management practices	x			Attachment 6	
III.11	Monitoring to determine management practice effectiveness	x			Appendix A	
III.12	E. coli watershed-specific field surveys to identify potential agricultural contributions			x	26	Actions to be developed further. Coalition is collecting information on manure usage and known locations of septic systems. Coalition currently in process of mapping residences, but no information of what stage it is in. However, as per Central Valley Water Board 2/10/12 letter, Management Plan actions regarding e.coli are suspended.

Westside Coalition Semi-Annual Monitoring Report (SAMR) Review Checklist

Item No.	Management Plan Check List Components	Acceptable			Document(s) Page No. (Section No.)	Comments
		A	U	I		
III.13	Develop specific performance goals and a schedule			x		Performance Goals adopted in August 2011. Buffer Zone mapping is due in this SAMR according to Performance Goals. Mapping incomplete. Spray calibration updates incomplete. The SAMR will need to be revised by 4/16/12.
III.14	Constituent-specific monitoring	x			Attachment 6	
III.15	Process & schedule for evaluating management practice effectiveness	x			Attachment 6	
IV. Westside Focused Watershed Management Plan III, Salt Slough (Draft)						
IV.1	Source Identification - Identify parcels	x			Attachment 6	Focus Plan III approved 12/7/11 after 11/30/11 SAMR submitted.
IV.2	Development of survey document	x			Attachment 6	Underway according to Focus Plan III schedule. Will be reported in next SAMR.
IV.3	Completion of grower survey	x			Attachment 6	See above
IV.4	Finalize management practice survey findings, develop baseline MP inventory	x			Attachment 6	See above
IV.5	Determine effective MPs and develop next steps	x			Attachment 6	See above
IV.6	Detailed subwatershed maps	x			Attachment 6	See above
IV.7	Determination of pesticide use baseline	x			Attachment 6	See above
IV.8	Identification of management practices to be implemented	x			Attachment 6	See above
IV.9	Intensified outreach to growers	x			Attachment 6	See above
IV.10	Approach to implement additional management practices	x			Attachment 6	See above
IV.11	Monitoring to determine management practice effectiveness	x			Attachment 6	See above
IV.12	E. coli watershed-specific field surveys to identify potential agricultural contributions	x			Attachment 6	See above
IV.13	Develop specific performance goals and a schedule	x			Attachment 6	See above
IV.14	Constituent-specific monitoring	x			Attachment 6	See above
IV.15	Process & schedule for evaluating management practice effectiveness	x			Attachment 6	See above
Footnotes						
(1)	Monitoring and Reporting Program Order No. R5-2008-0831 for Westside San Joaquin River Watershed Coalition under the Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands Amended Order No. R5-2006-0053. Section II.D (Pages 22 - 24)					
(2)	Includes specific performance goals identified in the 31 January 2009 Management Practice Report, Performance Goals document					

Westside Coalition Semi-Annual Monitoring Report (SAMR) Review Checklist

Report Name: Westside Semi-Annual Management Plan		Reviewer Name: Chris Jimmerson				
Submittal Date: 30 August 2011		Review Date: 12/15/11 - 3/14/12				
Item No.	I. Basin Plan Component Description ⁽¹⁾	Review Criteria			Page No. (Section No.)	Comments
		Acceptable A	Unacceptable U	Incomplete I		
	TMDL Chlorpyrifos/Diazinon Check List					
1	Determine compliance with established water quality objectives and the loading capacity applicable to diazinon and chlorpyrifos in the San Joaquin River.			X	24, 33	The Coalition prepares a 1 May chlorpyrifos/diazinon Annual Monitoring Report each year. The discussion provided in the SAMR to answer the Basin Plan Component items will be addressed in the TMDL AMR. The chlorpyrifos and diazinon results were not readily available in the report, but were non-detect during the reporting period. The SAMR will need to be revised by 4/16/12 .
2	Determine compliance with established load allocations for diazinon and chlorpyrifos.	X			24, 33	see above
3	Determine the degree of implementation of management practices to reduce off-site movement of diazinon and chlorpyrifos.	X			24, 33	see above
4	Determine the effectiveness of management practices and strategies to reduce off-site migration of diazinon and chlorpyrifos.	X			24, 33	see above
5	Determine whether alternatives to diazinon and chlorpyrifos are causing surface water quality impacts.	X			24, 33	see above
6	Determine whether the discharge causes or contributes to a toxicity impairment due to additive or synergistic effects of multiple pollutants.	X			24, 33	see above
7	Demonstrate that management practices are achieving the lowest pesticide levels technically and economically achievable.	X			24, 33	see above
	Footnotes					
(1)	Fourth Edition of the Water Quality Control Plan (Basin Plan) for the Sacramento River and San Joaquin River Basins (Diazinon and Chlorpyrifos Runoff in the San Joaquin River Basin, page V-4.00)					

Westside Coalition Semi-Annual Monitoring Report (SAMR) Review Checklist

Report Name: Westside Semi-Annual Management Plan		Reviewer Name: Chris Jimmerson				
Submittal Date: 30 August 2011		Review Date: 12/15/11 - 3/14/12				
Item No.	I. Basin Plan Component Description ⁽¹⁾	Review Criteria			Page No. (Section No.)	Comments
		Acceptable A	Unacceptable U	Incomplete I		
	Dissolved Oxygen TMDL Related Sections Check List					
1	Determine compliance with established water quality objectives and the loading capacity applicable to dissolved oxygen in the San Joaquin River.	X			27, Attachment 5, Exceedance Tally	Coalition provided DO data for sampling points that apply to the SJR in the data summaries
	II. ILRP MRP Component Description ⁽²⁾					
2	Process to comply with Dissolved Oxygen TMDL - Status	X			27	The Coalition is participating in the DO TMDL. Funding for the TWG meeting ended Dec 2010. Coalition is participating with other stakeholders to provide funding for operation of an aerator.
Footnotes						
(1)	Fourth Edition of the Water Quality Control Plan (Basin Plan) for the Sacramento River and San Joaquin River Basins. Amendment for the Control Program for Factors Contributing to the DO Impairment in the Stockton Deep Water Ship Channel was adopted in 27 January 2005, and is in effect since 23 August 2006 by Resolution No. R5-2005-0005 into the Lower San Joaquin River. Final Staff Report October 2005					
(2)	Monitoring and Reporting Program Order No. R5-2008-0831 for Westside San Joaquin River Watershed Coalition under the Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands, Amended Order No. R5-2006-0053. Sections I.B and I.C (Pages 6 and 7)					

Westside Coalition Semi-Annual Monitoring Report (SAMR) Review Checklist

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Item No.	I. Basin Plan Component Description ⁽¹⁾	Review Criteria			Page No. (Section No.)	Comments
		Acceptable A	Unacceptable U	Incomplete I		
	Salt/Boron TMDL Related Sections Check List					
1	Salt/boron at Vernalls: Nonpoint source dischargers operating under waiver of waste discharge requirements must participate in a Regional Water Board approved real-time management program (Basin Plan IV 32.00 - IV 32.08).	X			30	The Regional Board and State Water Board are addressing the Basin Plan Salt and Boron requirements through the (1) Basin Plan Amendment for the San Joaquin River at Vernalls Salinity and Boron TMDL and (2) Central Valley Salinity Alternatives for Long-Term Sustainability (CV-SALTS).
	II. ILRP MRP Component Description ⁽²⁾					
2	Process to comply Salt and Boron TMDL - Status	X			30	According to the SAMR, the Coalition is actively engaged in CVSALTS process and is an active member of the Central Valley Salinity Coalition that has been organized to facilitate the funding of the CVSALT effort. In addition the San Joaquin Valley Drainage Authority is providing contracting and contract administration services for the CVSALT effort. According to the SAMR, the Coalition has committed to substantial resources to help ensure that the CVSALT effort results in an effective and efficient salinity management program for the Central Valley.
	Footnotes					
(1)	Fourth Edition of the Water Quality Control Plan (Basin Plan) for the Sacramento River and San Joaquin River Basins. Control Program for Salt and Boron Dischargers into the Lower San Joaquin River (Basin Plan IV 32.00) and is in effect since 23 August 2006 by Resolution No. R5-2005-0005 into the Lower San Joaquin River. Final Staff Report October 2005					
(2)	Monitoring and Reporting Program Order No. R5-2008-0831 for Westside San Joaquin River Watershed Coalition under the Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands, Amended Order No. R5-2006-0053. Sections I.B and I.C (Pages 6 and 7)					