

# STAFF REPORT

*This report would not have been possible without the help of the 340 water, drainage and reclamation agencies who responded to our request for information.*

## I. INTRODUCTION

The State Water Resources Control Board (State Water Board) adopted Resolution No. WQ 91-93, approving the Water Quality Control Plan for Inland Surface Waters of California or Inland Surface Waters Plan (ISWP) on 11 April 1991. By 12 October 1992, the ISWP requires, in part, that the Regional Board identify and rank in priority order those natural water bodies that, as of 11 April 1991, are dominated by agricultural drainage and constructed water bodies, used for conveying or holding agricultural drainage. The ISWP further requires the Regional Board to identify the ISWP water quality objectives that are inappropriate for the listed water bodies. The purpose of this staff report is to provide the necessary information to fulfill the 12 October 1992 ISWP requirements.

## II. SUMMARY OF THE ISWP

Section 303(c)(2)(B) of the Federal Clean Water Act (CWA) required all states to adopt water quality objectives for the 129 Priority Pollutants that the U.S. Environmental Protection Agency (EPA) has published criteria under Section 304(a) of the CWA. If the State failed to do this, EPA would promulgate these criteria as objectives. The Porter-Cologne Act (California Water Code Section 13170) authorizes the State Water Board to adopt Water Quality Control Plans (Basin Plan) that include the objectives required by the CWA. The State Water Board used this authority in order to continue their role as the agency implementing the CWA in California.

As required of all water quality control plans, the Plan includes designation of beneficial uses, water quality objectives and an implementation program. The ISWP does not include any new beneficial uses but rather incorporates, by reference, beneficial uses in existing Basin Plans and other statewide plans. The ISWP includes five new narrative water quality objectives (Chapter II, Part A, page 3 of Plan), two toxicity objectives (Chapter II, Part B, page 3 of Plan), and numerical water quality objectives for the protection of freshwater aquatic life and for the protection of human health [Chapter II, Part C, pages 4 and 5 of ISWP (Table 1 and 2)]. The Implementation Program of the ISWP (Chapter III, pages 10-25) outlines specific actions for:

- (a) point and nonpoint sources (including stormwater)
- (b) waters which support threatened/endangered species, and
- (c) waters which are predominately composed of reclaimed water or agricultural drainage.

The water quality objectives in the ISWP apply in all surface waters within the State. All agricultural supply canals and drains, whether constructed or flowing in natural channels, are considered surface waters or waters of the State and must conform with the ISWP (State Attorney General's Opinion

No. 65-259 [48 Ops. Cal. Atty. Gen. 30]). The State Water Board recognized, however, that many of the agricultural facilities are not natural waters and that the objectives listed in Table 1 and 2 of the ISWP may not be appropriate. The ISWP establishes special categories of water bodies which are described as follows for categories (b) and (c):

- (b) *Natural water bodies, or segments thereof, that, as of the date of adoption of the ISWP are dominated by agricultural drainage; and*
- (c) *Water bodies, or segments thereof, that, as of the date of adoption of the ISWP, have been constructed for the primary purpose of conveying or holding agricultural drainage and were not natural water bodies which supported aquatic habitat beneficial uses. Such drains may include drains constructed in normally dry washes and low-lying areas.*

The ISWP allows, in these special category water bodies, establishment of site-specific objectives\* or performances goals\*\* in lieu of the Table 1 and 2 objectives in the ISWP.

The plan is to have site-specific objectives\* or performance goals\*\* in place within a six-year period. The schedule for the two types of categories are as follows:

Water Body Category	What Applies Upon Adoption	What Applies Within 6 Years or Less
(b) Water Bodies Dominated by Agricultural Drainage	<ul style="list-style-type: none"> <li>- All Narrative Water Quality Objectives</li> <li>- All Toxicity Objectives</li> <li>- Numerical Objectives Apply as Performance Goals for Purposes of Regulating Agricultural Drainage Discharges &amp; Other NonPoint Sources</li> </ul>	<ul style="list-style-type: none"> <li>- All Numerical Objectives in the Plan or Alternate Site-Specific Objectives Established by the C V Reg Board</li> </ul>
c) Constructed Agricultural Drains	<ul style="list-style-type: none"> <li>- All Narrative Water Quality Objectives</li> <li>- All Toxicity Objectives</li> <li>- The Numerical Objectives Apply as Performance Goals for Purposes of Regulating Agricultural Drainage Discharges &amp; Other NonPoint Sources</li> </ul>	<ul style="list-style-type: none"> <li>- Initial Performance Goals apply or Alternate Site-Specific Performance Goals Established by the Central Valley Regional Board</li> </ul>

\* A site-specific objective is identical to a water quality objective but has been developed for special local conditions using a site-specific data base rather than the national data base upon which EPA water quality criteria are developed.

\*\* Performance goals, as defined in the Plan, "are concentrations of water quality constituents established for receiving waters that a discharger must make best efforts to meet in discharging waste to waters of the State. For nonpoint source dischargers, these best efforts must be made pursuant to the Nonpoint Source Management Plan. Performance goals will serve as a measure of success in improving water quality."

### III. ISWP REQUIREMENTS TO BE COMPLETED BY 12 OCTOBER 1992

The ISWP contains a range of actions that must be completed by the Regional Board by 12 October 1992.

For Category (b) water bodies, by 12 October 1992, the Regional Board must:

- Identify Category (b) water bodies (develop a list).
- Establish a priority list of these waters, consistent with the State Water Board's Clean Water Strategy\*\* (CWS), to identify where early Regional Board action is necessary.
- Identify which numerical objectives defined in Tables 1 and 2 of the ISWP are inappropriate for Category (b) water bodies based on available data.
- Submit the information to State Water Board for consideration and approval.

\*\* The aim of the California Clean Water Strategy (CWS) is to direct State and Regional Board efforts to those water bodies where they will have the greatest impact. To establish CWS priorities, each water body is characterized in terms of relative resource value and severity of impairment of threat. Proposed actions on these water bodies are screened with regard to feasibility.

By 11 April 1993, the State Water Board will act to approve or disapprove the list of Category (b) water bodies and constituents for site-specific objectives (statewide objectives apply in cases of disapproval). Regional Board staff will then proceed to develop the site-specific objectives for Regional Board adoption by 11 April 1997. Until numerical objectives are adopted for Category (b) water bodies, the ISWP Table 1 and 2 objectives apply as performance goals.

For Category (c) water bodies, by 12 October 1992, the Regional Board must:

- Identify Category (c) water bodies (develop a list).
- Establish a priority list of these waters, consistent with the State Water Board's CWS, to identify where early Regional Board action is necessary.
- Submit the information to State Water Board for consideration and approval.

By 11 April 1993, the State Water Board will act to approve or disapprove the list of Category (c) water bodies (statewide objectives apply in cases of disapproval). Tables 1 and 2 objectives in the ISWP will be applied as performance goals to Category (c) waters. For Category (c) water bodies, site-specific performance goals may be developed as needed. The State Water Board shall approve or disapprove the site-specific performance goals.

Natural and constructed water bodies associated with agricultural irrigation not listed as either category (b) or (c) water bodies will have statewide water quality objectives from the ISWP applied to them as if they are natural streams.

#### IV. REGIONAL BOARD ACTIONS TO COMPLY WITH ISWP

The Regional Board is responsible to prepare the 12 October 1992 report to the State Water Board, but in practicality, the Regional Board can only act as a coordinator. As noted in the Plan, all of the work, described in the previous section, must be conducted with the strong assistance of the water and drainage entities. These agencies have the expertise and information to determine which category a water body should be in.

To compile the information needed to complete the report to the State Water Board, staff contacted by mail over 700 water agencies to request their aid in identifying category (b) and (c) water bodies. Unfortunately most of the agencies were not even aware of the existence of the ISWP; therefore, staff held over 60 area meetings to explain the ISWP and how it impacts agricultural operations. Staff have received reports from over 340 Water, Irrigation, Reclamation, Levee and Drainage Districts which cover over 90 percent of the Region's irrigated area. These reports vary greatly in depth depending upon the information that was available and the agency's understanding of the ISWP.

This wide variability has caused staff a great deal of trouble in trying to bring the information together in one report. This effort was also complicated by the diverse nature of irrigation and drainage system in the Region. Often irrigation canals and drains are used interchangeably as greater and greater portions of the drainage water is recycled through the canal systems.

Because of the diverse topography and nature of irrigation practices in the Central Valley, staff elected to evaluate the information by defined drainage basin. The Region was initially divided between foothills and the valley floor. The valley floor was then divided into four distinct areas with boundaries similar to those of Basin Plans 5A, 5B, 5C and 5D. The four valley floor zones were further subdivided into drainage basins, as shown in Figure 1. These drainage basins represent areas of similar hydrology and common discharge locations and will be used to define future monitoring efforts. The information from the district reports was used to categorize water bodies within each drainage basin.

##### a. Designation of Water Body Categories

Table 1 lists the category (b) and (c) water bodies. Category (b) are natural channels whose flow and quality are dominated by irrigation activities. The category (c) list is composed of two components. The first is natural dry channels which have been extensively reconstructed and realigned as irrigation/drainage facilities. The second is other constructed facilities named in water agency submittals but too numerous to list in Table 1. The length of the affected reach of each water body is listed.

**b. Priority Listing of Water Bodies**

The prioritization for all listed category (b) and (c) water bodies is shown in Table 1. This prioritization is based on staff judgments, as little water quality data was available.

**c. Inappropriate Water Quality Objectives**

Table 1 shows the water quality concerns for each of the category (b) water bodies. These concerns point to groups of water quality objectives that may be inappropriate, but there was little or no available data for most of the ISWP objectives.

**V. DISCUSSION**

As specified in the ISWP, staff relied heavily on the information provided by local water agencies. Over 340 informational reports were reviewed, but time and budget constraints have limited the amount of verification possible. The current designations represent the best judgment of staff along with input from local water agencies. Modifications may be necessary before the final approval by the State Water Board.

The ISWP directed the Regional Board to classify water bodies as either natural bodies dominated by agricultural *drainage* or constructed to transport agricultural *drainage*. The district reports showed, however, that three other types of agriculturally dominated water bodies provide beneficial uses which would not exist without the flows resulting from irrigated agriculture. These three types are natural waterways used to transport agricultural *supply* water, constructed facilities used to transport agricultural *supply* water, and dry washes that have been reconstructed and realigned to be an integral component of the *supply or drainage* system.

Because of this complex system, Regional Board staff reviewed the reports and placed the water bodies in one of the following subcategories based on information supplied by the districts:

**Natural Water Body**

**Category (b) Water Bodies:**

- (b1) - Natural water bodies dominated by agricultural drainage water.
- (b2) - Natural water bodies dominated by agricultural supply water.

### Constructed Facility

#### Category (c) Water Bodies:

- (c1) - Constructed facilities designed to carry agricultural flows or drainage.
- (c2) - Constructed facilities designed to carry irrigation water and may, at times, carry recycled return flows.
- (c3) - Natural dry washes that have been altered and now carry agricultural supply water or return flows during time periods.

The criteria for each subcategory are described in Appendix A along with an illustration of a decision-making flow chart. The process outlined in Appendix A was used to categorize all water bodies within each drainage basin. A description of each drainage basin and the agriculturally dominated natural water bodies is presented in Appendix B. (Appendix B will be mailed under a separate cover). Appendix B also presents a summary of all constructed agricultural facilities as provided by the cooperating agencies.

Most of the major natural water bodies in the Central Valley are not dominated by agricultural activities although, in many cases, they do provide either agricultural supply water or receive extensive amounts of agricultural drainage flows. One major water body, the San Joaquin River, is agriculturally dominated. With the construction of Friant Dam and the Friant-Kern Canal, most natural flows downstream of Highway 99 ceased. A 22.8-mile reach of the River is used to convey imported supply of water (Mendota Pool to Sack Dam), but the majority of the River (a 109.7-mile reach from Sack Dam to the Stanislaus River confluence) is dominated by agricultural return flows, drainage water, and ground water seepage.

Also noted in Table 1 are major constructed facilities which have greatly altered the flow of water throughout the Central Valley. These water supply and flood control facilities in many cases either completely eliminated the natural flow to or caused complete realignment of former natural streams. These facilities include the:

Natomas-Cross Canal	Sacramento Ship Channel
Tehema-Colusa Canal	California Aqueduct
Glenn-Colusa Canal	Folsom-South Canal
Colusa Basin Drain	Delta Mendota Canal
Madera Canal	Friant-Kern Canal
Yolo Bypass	Tisdale Bypass
Sutter Bypass	Cross Valley Canal
Knights Landing Ridge Cut	

The evaporation basins used for tile drainage are not included in the list of (b) or (c) water bodies. The ISWP in its introduction, clearly states that it "*does not apply to waste treatment systems, including treatment ponds, evaporation ponds, or lagoons designed to meet the requirements of the federal Clean Water Act*" (emphasis added). The ponds are designed to

contain the waste without discharge to waters of the United States. This is the same position that State Water Board staff took when responding to issues raised by E.P.A. In their report of 26 September 1991 to Walt Pettit and State Water Board members, the State Water Board staff recommended not to change this portion of the plan.

The second direction to the Board under the ISWP is to "*establish a priority list of the listed category (b) and (c) water bodies to identify where early Regional Board action is necessary.*" Using the State Water Board's Clean Water Strategy, almost all the listed water bodies would be in the lowest priority state wide. An additional prioritization was conducted, however, to rank these water bodies based upon their potential to have water quality problems present or create similar problems downstream. To make this second assessment consistent with the Clean Water Strategy, the following five factors were used:

1. Magnitude of existing beneficial uses
2. Water Body size (length)
3. Flow (perennial vs. intermittent and volume)
4. Degree of beneficial use impairment
5. Degree of threat to downstream water quality

The prioritization for all listed category (b) and (c) water bodies is shown in Table 1. This prioritization is based upon staff judgment as little water quality data is available.

The third direction to the Board under the ISWP is to "*identify which numerical objectives defined in Table 1 and 2 of the ISWP are inappropriate for the category (b) water bodies based on available data.*" For most agricultural drains, canals and natural water bodies dominated by these flows, there is little or no data available on most of the ISWP numerical objectives. Table 1 shows the water quality concerns for each of the category (b) water bodies. These designations point to groups of water quality objectives that may be inappropriate, but more thorough monitoring needs to be conducted before a site-specific objective workplan can be prepared. The designation of water quality concerns was based upon the following observations:

- The water bodies showing elevated selenium concentrations are located principally in the west side of the San Joaquin Valley.
- Elevated boron and total dissolve solids concentrations are common in many water bodies dominated by agricultural drainage and in natural and constructed facilities that carry ground water or recycled agricultural drainage water.

- Monitoring shows that water quality objectives for metals (As, Cd, Cr, Cu, Pb, Ni, Ag and Zn) are violated when total recoverable analytical techniques are used for analysis. These elevated levels are commonly due to the natural levels of metals on sediment. This sediment is commonly found in water bodies dominated by agricultural drainage. This sediment also has attached pesticides residues, such as DDT, DDE, toxaphene, chlordane, endosulfan, and other persistent pesticides.
- Concentrations of pesticides can be found in all water bodies that are dominated by agricultural drainage and at times in agricultural supply canals as a result of recycling of drainage water, pumped ground water or maintenance operations that are conducted on constructed canals and drains.
- Maintenance operations in constructed canals and drains may cause water quality objective violations including violation of the toxicity objectives. These maintenance operations, such as use of copper sulfate or other chemicals are critical to maintaining the integrity of the facility's use.
- Many of the category (b) and (c) water bodies are subject to inflows from urban areas.

## VI. RECOMMENDATION

Staff recommendation is to adopt Table 1 and all the agency submittals by reference. This approach recognizes the requirement to submit the list but also recognizes the complexity of defining these water bodies. The Resolution for adoption also recognizes the need to include all types of agriculturally dominated water bodies by directing staff to submit the listing to the State Water Board using the 5 subcategories outlined in the Appendix A of the Staff Report. This approach will allow ourselves and State Water Board staff to make modifications to the category designations as they are needed. In addition, the adoption should be done with a clear public understanding that these designations are not intended to impact existing beneficial use designations; rather, these designations are to provide a logical process for developing and implementing water quality objectives consistent with the Federal Clean Water Act.





Table 1. Summary of Category (b) and (c) Water Bodies Within the Central Valley of California

Watershed/Drainage Basin	Mileage	Priority	Water Quality Concerns*
<b>CATEGORY (b) WATER BODIES</b>			
<b>SACRAMENTO RIVER BASIN</b>			
<b>DRAINAGE BASIN 20A</b>			
Unnamed Tributaries to Walker Creek	7	5	3,4
Walker Creek	15	3	3,4
Sheep Corral/White Cabin Creek	5.5	5	3,4
Wilson Creek (Upstream of Road 35, Glenn County)	4	5	3,4
Freshwater Creek	4	5	3,4
Salt Creek (North)	2.5	5	3,4
Cortina Creek	4	5	3,4
Hopkins Slough (Within boundaries of Colusa NWR)	1.5	3	3,4
Hunters Creek (Within boundaries of Sacramento NWR)	1.7	3	3,4
North Fork of Logan Creek (Within boundaries of Sacramento NWR)	6	3	3,4
Logan Creek (Within boundaries of Sacramento NWR)	9	3	3,4
Funks Creek	6	5	3,4
Buckeye Creek	12	5	3,4
Lurline Creek (Tehema Colusa Canal to Glenn-Colusa Canal)	3	5	3,4
<b>DRAINAGE BASIN 20B</b>			
Butte Creek	44	1	3,4
Hamlin Slough	18.5	3	3,4
Butte Slough	6	2	3,4
Butte Sink	10	2	3,4
Angel Slough	21	5	3,4
Campbell Slough	8	5	3,4
Howard Slough	6	5	3,4
Little Butte Creek	6	5	3,4
<b>DRAINAGE BASIN 20C</b>			
Butte Slough	9.4	2	3,4
Willow Slough	1	5	3,4
Nelson Slough	1.3	5	3,4
Sacramento Slough (Downstream of Karnak)	1.5	3	3,4
Gilsizer Slough (Downstream of O'Banion Road)	6	5	3,4
<b>DRAINAGE BASIN 15</b>			
Grasshopper Slough (Diversion to Grass Valley Road)	1	5	3,4,6
Messick Lake	1	5	3,4
Reeds Creek	7.6	5	3,4
Dry Creek (South)	6	5	3,4,6
Clark Slough (Upstream of Plumas Lake Canal)	3	5	3,4,6
Hutchinson Creek	5.1	5	3,4

Table 1. Summary of Category (b) and (c) Water Bodies Within the Central Valley of California

Watershed/Drainage Basin	Mileage	Priority	Water Quality Concerns*
<b>CATEGORY (b) WATER BODIES CONTINUED</b>			
DRAINAGE BASIN 15 Continued:			
Best Slough (HWY 65 to Forty Mile Road)	3	5	3,4
No Name Creek	5.5	5	3,4
Tennessee Creek	5.3	5	3,4
Prairie Creek	6.8	5	3,4
Dry Creek (North)	11.6	2	3,4
Wilson Creek	3.7	5	3,4
North Honcut Creek	3.3	3	3,4
South Honcut Creek	15.3	3	3,4
Jack Slough (Upstream of Trainer Hills)	5.2	2	3,4
DRAINAGE BASIN 19			
Yankee Slough	9.9	3	3,4
Coon Creek (Upstream of the East Side Canal)	9.4	5	3,4,6
Bunkham Slough (Upstream of Pleasant Grove Road)	9.4	5	3,4
Markham Ravine (Upstream of Pleasant Grove Road)	6.8	5	3,4
Auburn Ravine (Upstream of Pleasant Grove Road)	4.4	5	3,4,6
King Slough (Upstream of Western Pacific Railroad)	5	5	3,4
Pleasant Grove Creek	4.5	4	3,4
Ping Slough (Upstream of Cornelius Avenue)	5	4	3,4
DRAINAGE BASIN 11			
Cache Creek	26	2	2,3,4
Goodnow Slough	12	5	2,3,4,6
Almondale Slough	4	5	2,3,4
South Fork of Willow Slough	21	5	2,3,4
Cottonwood Slough	8	5	2,3,4
North Fork of Willow Slough	3	5	2,3,4
Willow Slough	17	5	2,3,4
Union Slough	28	5	2,3,4,6
Moody Slough	16	5	2,3,4
Cache Slough (Upstream of Haas Slough)	3	2	2,3,4
Dry Slough	17.5	5	2,3,4
Putah Creek	16	3	2,3,4
Haas Slough	3	2	2,3,4,6
Old Alamo Creek	3	5	2,3,4
Gordon Slough (Lower West Adams)	6	5	2,3,4
Lamb Valley Slough	2	5	2,3,4
Shag Slough	2.5	3	2,3,4
Duck Slough	1.5	3	2,3,4

Table 1. Summary of Category (b) and (c) Water Bodies Within the Central Valley of California

Watershed/Drainage Basin	Mileage	Priority	Water Quality Concerns*
<b>CATEGORY (b) WATER BODIES CONTINUED</b>			
<b>SAN JOAQUIN RIVER BASIN</b>			
<b>DRAINAGE BASIN 40</b>			
Orestimba Creek	5	3	1,2,3,4,5
Old San Joaquin River Channel at Laird Slough	5.3	4	2,3,4
Del Puerto Creek	5.5	4	2,3,4,5
Tom Payne Slough	13	5	3,4
Mountain House Creek	3.5	5	2,3,4
San Joaquin River (Merced River to Stanislaus River)	34.8	1	1,2,3,4
<b>DRAINAGE BASIN 41</b>			
Los Banos Creek	24	5	2,3,4,6
San Luis Creek	8	5	2,3,4
Garzas Creek	4	5	2,3,4,6
Salt Slough	10	1	1,2,3,4
Mud Slough (south)	3.1	4	2,3,4
Mud Slough (north)	5.1	1	1,2,3,4
San Joaquin River (Mendota Pool to Merced River)	86.7	1	1,2,3,4
<b>DRAINAGE BASIN 35A</b>			
Lone Tree Creek	29	3	3,4
French Camp Slough	6.5	3	3,4
Walthall Slough	5	5	3,4
Littlejohns Creek (Goodwin Dam to Farmington Fld Cntrl Basin)	15	5	3,4
Dry Creek (Crabtree Road to Wellsford Road)	17	4	3,4
Lesnini Creek	3	5	3,4
Simmons Creek	5	5	3,4
<b>DRAINAGE BASIN 35B</b>			
Bear Creek	39	2	3,4
Mariposa Creek	11	5	3,4
Duck Slough	11	5	3,4
Cottonwood Creek	2.5	5	3,4
South Slough	3.5	5	3,4
Black Rascal Creek	16.5	5	3,4
Deadman Creek (Downstream of El Nido Canal)	5.5	5	3,4
Canal Creek	19.5	5	3,4
Edendale Creek	3.2	5	3,4
Parkinson Creek	3	5	3,4
Hartley Slough	2.5	5	3,4
Fahrens Creek	5	5	3,4
Lake Yosemite	N/A	5	3,4

Table 1. Summary of Category (b) and (c) Water Bodies Within the Central Valley of California

Watershed/Drainage Basin	Mileage	Priority	Water Quality Concerns*
<b>CATEGORY (b) WATER BODIES CONTINUED</b>			
DRAINAGE BASIN 35B Continued:			
Miles Creek	7	5	3,4
Owens Creek	26	5	3,4
Dutchman Creek	13	5	3,4
Chowchilla River	12	5	3,4
DRAINAGE BASIN 45			
Root Creek	1	5	3,4,6
Lone Willow Slough	18	5	3,4
Schmidt Creek	2	5	3,4,6
Fresno River	6	5	3,4
Berenda Creek	9	5	3,4
Dry Creek	7	5	3,4
Cottonwood Creek	20	5	3,4
Berenda Slough	1.7	5	3,4
Ash Slough	5	5	3,4
SACRAMENTO-SAN JOAQUIN DELTA			
DRAINAGE BASIN 10			
Mayberry Slough	4.7	5	3,4
DRAINAGE BASIN 44B			
Frisk Creek	3.8	5	3,4
Brushy Creek	2.4	5	2,3,4
Marsh Creek	9	5	2,3,4
DRAINAGE BASIN 44C			
Old River	6	1	2,3,4
Paradise Cut	7.6	3	2,3,4
DRAINAGE BASIN 32			
Pixley Slough	9.7	5	3,4
Bear Creek	13.6	5	3,4
Mosher Creek	19.3	5	3,4
Mormon Slough	13.4	5	3,4
Laguna-Hadelville Creek	10.8	5	3,4
Consumnes River	10.5	1	3,4
Deer Creek	15	5	3,4

Table 1. Summary of Category (b) and (c) Water Bodies Within the Central Valley of California

Watershed/Drainage Basin	Mileage	Priority	Water Quality Concerns*
<b>CATEGORY (b) WATER BODIES CONTINUED</b>			
<b>TULARE LAKE BASIN</b>			
Kings River (Downstream of Peoples Weir)	71.6	1	3,4
Wahtoke Creek	14.9	5	3,4
Navelencia Creek	2.4	5	3,4
Sand Creek	2.2	5	3,4
Traver Creek	10.1	5	3,4
Kaweah River	11.3	4	3,4
St. Johns River	14.1	4	3,4
Elk Bayou	9.9	5	3,4
Outside Creek	6.2	5	3,4
Deep Creek	12	5	3,4
Elbow Creek	16.3	5	3,4
Cottonwood Creek	5.4	5	3,4
Cross Creek	11.7	4	3,4
Byrd Slough	8.3	5	3,4
Cameron Slough	5.3	5	3,4
Clarks Fork	5	4	3,4
Cole Slough	8.8	5	3,4
Dutch John Cut	2.5	5	3,4
Fresno Slough	20	5	2,3,4
Lower North Fork Kings River	5.3	1	3,4
Lower South Fork Kings River	8.7	1	2,3,4
Old Fresno Slough	1.8	4	3,4
Poso Creek	6.5	3	3,4
Buena Vista Lake	N/A	5	3,4
Surprise Creek	2.4	5	3,4
Wooten Creek	2.4	5	3,4
Negro Creek	1.3	5	3,4
Long Creek	1.8	5	3,4
<b>FOOTHILLS</b>			
Jackson Creek	7	5	
Dry Creek (Amador County)	2	5	3,4
Wolf Creek	12	5	
Coon Creek	12	5	6
Auburn Ravine	6	5	6

\* Water Quality Concerns:

1 = selenium and molybdenum

2 = boron and total dissolved solids

3 = Metals

4 = pesticides

5 = DDT, Endosulfan, etc.

6 = urban, dairy wastes, WWTP

Table 1. Summary of Category (b) and (c) Water Bodies Within the Central Valley of California

Watershed/Drainage Basin	Mileage	Priority	Water Quality Concerns*
<b>CATEGORY (c) WATER BODIES</b>			
<b>MAJOR CONSTRUCTED FACILITIES WITHIN THE CENTRAL VALLEY</b>			
Natomas Cross Canal	5	3	
Tehama-Colusa Canal	111	2	
Glenn-Colusa Canal	66	2	
Colusa Basin Drain	75	1	
Knights Landing Ridge Cut	6	3	
Yolo Bypass	16.5	1	
Tisdale Bypass	4.5	3	
Sutter Bypass	32	1	
California Aquaduct (Central Valley)	300+	1	
Corning Canal	21	2	
Toe Drain	23	1	
Folsom-South Canal	26.8	2	
Delta Mendota Canal	116+	1	
Madera Canal	36	3	
Friant-Kern Canal	152	2	
Eastside Bypass (plus the Eastside Canal)	45	2	
Cross Valley Canal	20	3	
San Luis Drain	84.8	1	

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

USBR  
DWR  
Friant-Kern Water Users Association  
San Luis-Delta Mendot Water Users Authority  
Tehama Colusa Water Users Association

**SACRAMENTO RIVER BASIN**

**DRAINAGE BASIN 4**

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

Poberta Water District  
Corning Water District

Table 1. Summary of Category (b) and (c) Water Bodies Within the Central Valley of California

Watershed/Drainage Basin	Mileage	Priority	Water Quality Concerns*
<b>CATEGORY (c) WATER BODIES CONTINUED</b>			
<b>DRAINAGE BASIN 20A</b>			
Orland -Artois Unnamed "A"	9.5	5	
Orland - Artois Unnamed "B"	13	5	
Lateral "A"	13	5	
East Branch of Walker Creek	5	5	
Shepherd Slough	10	5	
Bounde Creek	13	5	
Hopkins Slough	9	5	
Willow Creek	13	5	
North Fork Logan Creek	2.5	5	
Logan Creek	2.5	5	
Hunters Creek	7	5	
Funks Creek (Downstream of Glenn-Colusa Canal)	4	5	
Stone Corral Creek	12	5	
Lurline Creek (Downstream of Glenn-Colusa Canal)	3	5	
Freshwater Creek (Glenn-Colusa Canal to Salt Creek)	6	5	
Salt Creek (North) [Glenn-Colusa Canal to Colusa Trough]	6.5	5	
Spring Creek	3	5	
Cortina Creek	5.5	5	
Wilkins Slough	8	5	
Sycamore Slough	16	5	
Hayes Hollow Creek	3.1	5	
French Creek	6.8	5	
South Fork of Willow Creek (Downstream of Tehema-Colusa Canal)	17	5	
Glenn Valley-Manor Slough	13	5	
Wilson Creek (Road 35 to Willow Creek)	7	5	

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

- Colusa Basin Drainage District
- Glenn-Colusa Irrigation District
- Orland-Artois Water District
- Provident Irrigation District
- Princeton-Cordova-Glenn Irrigation District
- Glide Water District
- Kanawha Water District
- Holthouse Water District
- Westside Water District
- Maxwell Irrigation District
- Cortina Water District

Table 1. Summary of Category (b) and (c) Water Bodies Within the Central Valley of California

Watershed/Drainage Basin	Mileage	Priority	Water Quality Concerns*
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**CATEGORY (c) WATER BODIES CONTINUED**

**DRAINAGE BASIN 20A Continued:**

Colusa Water District  
 Dunnigan Water District  
 Knights Landing Ridge Drainage District  
 Reclamation District 2047  
 Reclamation District 479  
 Reclamation District 108  
 Reclamation District 787

**DRAINAGE BASIN 20B**

Durham Slough	7	5
Little Dry Creek	15	5
Drumheller Slough	11	5

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

Western Canal Water District  
 Butte County Drainage District #2  
 Drainage District 200  
 Richvale Irrigation District  
 Butte Water District  
 Reclamation District 833  
 Biggs-West Gridley Water District  
 Reclamation District 1004  
 Butte Sink Waterfowl Association

**DRAINAGE BASIN 20C**

Morrison Slough	11	5
Snake River	30	5
Live Oak Slough	23	5
Gilsizer Slough (Yuba City of O'Banion Road)	11	5
Poodle Creek	5	5
Sutter Bypass (East and West Borrow Pit Channels)	60	1

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

Biggs-West Gridley Water District  
 Butte Water District  
 Sutter Extension Water District

Table 1. Summary of Category (b) and (c) Water Bodies Within the Central Valley of California

Watershed/Drainage Basin	Mileage	Priority	Water Quality Concerns*
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**CATEGORY (c) WATER BODIES CONTINUED**

DRAINAGE BASIN 20C Continued:

- Reclamation District 777
- Reclamation District 2056
- Reclamation District 2054
- Drainage District No. 1
- Tierra Buena Drainage District
- Sutter County Water Agency
- Feather Water District
- Tudor Mutual Irrigation Company
- Hamatani Ranch
- Garden Highway Mutual Water Company
- Sutter Butte Mutual Water Company
- Sutter National Wildlife Refuge
- Goose Club Farms (Sutter Bypass Properties)
- Department of Water Resources, State of California

**DRAINAGE BASIN 20D**

Long Lake	2	5
Sacramento Slough (Within RD 1500)	2.5	5
Tisdale Bypass	4.4	4

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

- Meridian Farm Water Company
- Sutter Buttes Mutual Water Company
- Reclamation District No. 1660
- Reclamation District No. 70
- Tisdale Irrigation Company
- Butte Slough Irrigation Company
- Sutter Mutual Water Company
- Pelger Mutual Water Company
- Sutter Mutual Water Company
- Reclamation District 1500

**DRAINAGE BASIN 15**

Plumas Lake Drain	2	5
Algodon Slough Drain	4.1	5
Baxter Slough	2.9	5
Kimball Creek	2.5	5

Table 1. Summary of Category (b) and (c) Water Bodies Within the Central Valley of California

Watershed/Drainage Basin	Mileage	Priority	Water Quality Concerns*
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**CATEGORY (c) WATER BODIES CONTINUED**

**DRAINAGE BASIN 15 Continued:**

Simmerly Slough	3.4	5	
Jack Slough (Downstream of Trainer Hills)	6	2	
Clark Slough (Downstream of Plumas Lake Canal)	4.4	4	
Best Slough (Downstream of Forty Mile Road)	2.2	5	
Grasshopper Slough (Downstream of Grass Valley Road)	2	5	

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

Oroville-Wyandotte Irrigation District  
 Yuba County Water Agency  
 Brophy Water District  
 South Yuba Water District  
 Browns Valley Irrigation District  
 Cordura Irrigation Company  
 Hallwood Irrigation Company  
 Ramirez Water District  
 City of Wheatland  
 Wheatland Irrigation District  
 Reclamation District 784  
 Plumas Mutual Irrigation District  
 Camp Far West Irrigation District  
 Dana & Dana, Inc.

**DRAINAGE BASIN 19**

Curry Creek (Within RD 1000)	1.2	5	
Ping Slough (Downstream of Cornelius Ave.)	4	5	
Coon Creek (Downstream of the East Side Canal)	2.5	5	
Bunkham Slough (Downstream of Pleasant Grove Rd.)	1.1	5	
Markham Ravine (Downstream of Pleasant Grove Rd.)	1.6	5	
Auburn Ravine (Downstream of Pleasant Grove Rd.)	2.1	5	
King Slough (Downstream of the Western Pacific Railroad)	0.9	5	

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

South Sutter Water District  
 Natomas Central Mutual Water Company  
 Reclamation District 1000  
 Reclamation District 1001

Table 1. Summary of Category (b) and (c) Water Bodies Within the Central Valley of California

Watershed/Drainage Basin	Mileage	Priority	Water Quality Concerns*
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**CATEGORY (c) WATER BODIES CONTINUED**

**DRAINAGE BASIN 19 Continued:**

Neveda Irrigation District  
 Placer County Water Agency

**DRAINAGE BASIN 11**

Walnut Canal	6.2	5
South Fork of Putah Creek	10	5
Willow Slough Bypass	7	5
Sweeney Creek	4	5
Gibson Canyon Creek	5.5	5
Ulatis Creek	5.5	5
Ulatis Channel	13	4

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

Cowell Ranch  
 Reclamation District 2093  
 Reclamation District 2060  
 Reclamation District 730  
 Reclamation District 2104  
 Reclamation District 1600  
 Reclamation District 537  
 Reclamation District 2068  
 Reclamation District 2098  
 Reclamation District 2035  
 Reclamation District 827  
 Reclamation District 785  
 Reclamation District 2084  
 Dixon Resource Conservation District  
 Maine Prairie Water District  
 Solano Irrigation District  
 Solano County Water Agency  
 Yolo County Flood Control and Water Conservation District

**SAN JOAQUIN RIVER BASIN**

**DRAINAGE BASIN 40**

Corral Hollow Creek (Downstream of the Delta Mendota Canal)	2.5	5
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Table 1. Summary of Category (b) and (c) Water Bodies Within the Central Valley of California

Watershed/Drainage Basin	Mileage	Priority	Water Quality Concerns*
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**CATEGORY (c) WATER BODIES CONTINUED**

**DRAINAGE BASIN 40 Continued:**

Ingram Creek (Downstream of Interstate 5)	6.5	5	
Hospital Creek (Downstream of Interstate 5)	8	5	
Salado Creek (Downstream of the Delta Mendota Canal)	6	5	

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

- West Stanislaus Irrigation District
- Kasson Reclamation District #2085
- New Jerusalem Drainage District
- Banta-Carbona Irrigation District
- Patterson Water District
- Newman Drainage District
- Hospital Water District
- Naglee Burk Irrigation District
- Paradise Mutual Water Company
- Pescadero Reclamation District 2058
- El Solyo Water District
- Kern Cañon Water District
- Salado Water District
- Sunflower Water District
- Orestimba Water District
- Oak Flat Water District
- Foothill Water District
- Davis Water District
- Central California Irrigation District
- Reclamation District 1602
- Reclamation District 2099
- Reclamation District 2101
- Reclamation District 2102
- Westside Irrigation District
- Byron-Bethany Irrigation District

**DRAINAGE BASIN 41**

Santa Rita Slough	7	5	
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Table 1. Summary of Category (b) and (c) Water Bodies Within the Central Valley of California

Watershed/Drainage Basin	Mileage	Priority	Water Quality Concerns*
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**CATEGORY (c) WATER BODIES CONTINUED**

**DRAINAGE BASIN 41 Continued:**

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

- Central California Irrigation District
- Mustang Water District
- Quinto Water District
- Romero Water District
- Centinella Water District
- Mercy Springs Water District
- Eagle Field Water District
- Pacheco Water District
- Oro Loma Water District
- San Luis Water District
- Broadview Water District
- Panoche Water and Drainage District
- Firebaugh Canal Water District
- Grassland Water District
- San Luis Canal Company
- Poso Canal Company
- Charleston Drainage District
- Gustine Drainage District
- Widren Water District
- Dos Palos Drainage District

**DRAINAGE BASIN 35A**

Littlejohns Creek (Downstream of Farmington Fld Cntrl Basin)	17	5
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*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

- Modesto Irrigation District
- Turlock Irrigation District
- McMullin Reclamation District #2075
- Oakdale Irrigation District
- South San Joaquin Irrigation District
- Reclamation District 17

Table 1. Summary of Category (b) and (c) Water Bodies Within the Central Valley of California

Watershed/Drainage Basin	Mileage	Priority	Water Quality Concerns*
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**CATEGORY (c) WATER BODIES CONTINUED**

**DRAINAGE BASIN 35B**

Mariposa Slough	6.3	5
Miles Creek (Downstream of Puglizevich Dam)	5.6	5
North Slough	1	5
Deadman Creek (upstream of the El Nido Canal)	11	5
Turner Slough	3	5
Deep Slough	1.4	5
Sand Slough	7	5
Chamberlain Slough	3.2	5

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

- Merced Irrigation District
- Turner Island Water District
- Stevenson Water District
- Merquin County Water District
- El Nido Irrigation District
- LeGrand-Athlone Water District
- La Branza Water District
- Lone Tree Mutual Water Company

**DRAINAGE BASIN 45**

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

- Madera Irrigation District
- Gravelly Ford Water District
- Columbia Canal Company
- Chowchilla Water District

**SACRAMENTO-SAN JOAQUIN DELTA**

**DRAINAGE BASIN 10**

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

- North San Joaquin Water Conservation District
- Reclamation District 765 (Glide District)
- Reclamation District 999

Table 1. Summary of Category (b) and (c) Water Bodies Within the Central Valley of California

Watershed/Drainage Basin	Mileage	Priority	Water Quality Concerns*
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**CATEGORY (c) WATER BODIES CONTINUED**

**DRAINAGE BASIN 10 Continued:**

- Reclamation District 307 (Lisbon District)
- Reclamation District 501 (Ryer Island)
- Reclamation District 551 (Pierson)
- Reclamation District 3 (Grand Island)
- Reclamation District 554 (Walnut Grove)
- Reclamation District 2110 (McCormack-William Tract)
- Reclamation District 556 (Upper Andrus Island)
- Reclamation District 2086 (Canal Ranch Tract)
- Reclamation District 2111 (Dead Horse Island)
- Reclamation District 813 (Erhardt Club)
- Reclamation District 348 (New Hope Tract)
- Reclamation District 563 (Tyler Island)
- Reclamation District 38 (Staten Island)
- Reclamation District 341 (Sherman Island)

**DRAINAGE BASIN 44A**

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

- Central Delta Water Agency
- Reclamation District 2033 (Brack Tract)
- Reclamation District 548 (Terminus Tract)
- Reclamation District 756 (Bouldin Island)
- Reclamation District 2026 (Webb Tract)
- Reclamation District 2059 (Bradford Island)
- Reclamation District 2044 (King Island)
- Reclamation District 2029 (Empire Tract)
- Reclamation District 2023 (Venice Island)
- Reclamation District 2114 (Rio Blanco Island)
- Reclamation District 2042 (Bishop Tract)
- Reclamation District 2027 (Mandeville Island)
- Reclamation District 2041 (Medford Island)
- Reclamation District 2030 (McDonald Tract)
- Reclamation District 2037 (Rindge Tract)
- Reclamation District 2115 (Shima Tract)
- Reclamation District 799 (Hotchkiss Tract)
- Reclamation District 2025 (Holland Tract)
- Reclamation District 2090 (Quimby Island)

Table 1. Summary of Category (b) and (c) Water Bodies Within the Central Valley of California

Watershed/Drainage Basin	Mileage	Priority	Water Quality Concerns*
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**CATEGORY (c) WATER BODIES CONTINUED**

**DRAINAGE BASIN 44A Continued:**

- Reclamation District 2028 (Bacon Island)
- Reclamation District 2119 (Wright-Elmwood Tract)
- Reclamation District 2036 (Palm Tract)
- Reclamation District 2024 (Orwood Tract)
- Reclamation District 800 (Byron Tract)
- Reclamation District 2117 (Coney Island)
- Reclamation District 2040 (Victoria Island)
- Reclamation District 2072 (Woodward Island)
- Reclamation District 2039 (Upper Jones Tract)
- Reclamation District 2038 (Lower Jones Tract)
- Reclamation District 684 (Lower Roberts Island)
- Reclamation District 2113 (Fay Island)
- Reclamation District 2118 (Little Mandeville Island)
- Shin Kee Tract
- Bethel Island Municipal Improvement District
- Drexler-Honker Lake Tract
- Franks Tract State Park

**DRAINAGE BASIN 44C**

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

- Reclamation District 2 (Union Island West)
- Reclamation District 1 (Union Island East)
- Reclamation District 773 (Private Landowners)
- Reclamation District 2062 (Stewart Tract)
- Reclamation District 2089 (Stark Tract)
- Reclamation District 544 (Upper Roberts Island)
- Reclamation District 524 (Middle Roberts Island)

**DRAINAGE BASIN 32**

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

- Omuchumne-Hartnell Water District
- Galt Irrigation District
- North San Joaquin Water Conservation District
- Woodbridge Irrigation District
- Stockton East Water District

Table 1. Summary of Category (b) and (c) Water Bodies Within the Central Valley of California

Watershed/Drainage Basin	Mileage	Priority	Water Quality Concerns*
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**CATEGORY (c) WATER BODIES CONTINUED**

**DRAINAGE BASIN 32 Continued:**

Reclamation District 2074 (Sargent-Barnhart Tract)  
 Reclamation District 1614 (Smith Tract)  
 San Joaquin Flood Control and Water Conservation District

**DRAINAGE BASIN 44B**

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

East Contra Costa Irrigation District  
 Byron - Bethany Irrigation District

**TULARE LAKE BASIN**

China Slough	7.3	5
Phillips Ditch	1.6	5
Carmelita Ditch	3.1	5
Rice Ditch	1.1	5
Short Ditch #1	1	5
McLaughlin Ditch	1.7	5
Farm Ditch #1	1.8	5
Farm Ditch #3	1.5	5
Jacobi Ditch	0.3	5
Fink Ditch	1	5
Turner Ditch	1.6	5
Hanke Ditch	2.9	5
Byrd Ditch	1.1	5
Jack Ditch	1.4	5
Cameron Ditch	0.7	5
Tule River (Below Friant-Kern Canal)	41	5
Porter Slough	11.5	5
Old Fresno Slough	8.2	5
Harris Slough Ditch	1.8	5
Bates Slough	4.3	5
Lewis Creek	3.3	5
Inside Creek	5.2	5
Mill Creek	26.7	5
Cameron Creek	8.4	5
Tule River (above Friant-Kern Canal)	9	5
White River	12	5
Deer Creek	24	5

Table 1. Summary of Category (b) and (c) Water Bodies Within the Central Valley of California

Watershed/Drainage Basin	Mileage	Priority	Water Quality Concerns*
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**CATEGORY (c) WATER BODIES CONTINUED**

TULARE LAKE BASIN Continued:

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

- Alpaugh Irrigation District
- Alta Irrigation District
- Angiola Water District
- Arvin-Edison Water Storage District
- Berenda Mesa Water District
- Buena Vista Water Storage District
- Cawelo Water District
- City of Bakersfield
- Consolidated Irrigation District
- Corcoran Irrigation District
- Crescent Canal Company
- Delano-Earlimart Irrigation District
- Devil's Den Water District
- Dudley Ridge Water District
- Empire West Side Irrigation District
- Exeter Irrigation District
- Friant Kern Water Users Authority
- Fresno Irrigation District
- Henry Miller Water District
- Ivanhoe Irrigation District
- James Irrigation District
- Kaweah & St. Johns River Association
- KCWA Improvement District #4
- Kern Delta Water District
- Kern River Levee District
- Kern-Tulare Water District
- Kings County Water District
- Kings River Water District
- Laguna Irrigation District
- Lakeside Irrigation District
- Last Chance Water Ditch Company
- Lemoore Canal & Irrigation Company
- Lewis Creek Water District
- Lindmore Irrigation District
- Lindsay-Strathmore Irrigation District
- Lost Hills Water District

Table 1. Summary of Category (b) and (c) Water Bodies Within the Central Valley of California

Watershed/Drainage Basin	Mileage	Priority	Water Quality Concerns*
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**CATEGORY (c) WATER BODIES CONTINUED**

**TULARE LAKE BASIN Continued:**

- North Kern Water Storage District
- Peoples Ditch Company
- Rag Gulch Water District
- Reclamation District No. 1601
- Riverdale Irrigation District
- Rosedale-Rio Bravo Water Storage District
- Saucelito Irrigation District
- Semitropic Water Storage District
- Shafter-Wasco Irrigation District
- Southern San Joaquin Municipal Utilities District
- Stinson Canal & Irrigation Company
- Stone Corral Irrigation District
- Terra Bella Irrigation District
- Tranquillity Irrigation District
- Tulare Lake Drainage District
- Tule River Association
- Westlands Water District
- Wheeler Ridge-Maricopa Water Storage District
- Zalda Reclamation District 801

**FOOTHILLS**

*All constructed canals and drains and their tributaries as designated in reports submitted by the following agencies are incorporated into this table by reference.*

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>Tuolumne Regional Water District</li> <li>Tuolumne Public Utility District</li> <li>Northridge Water District</li> <li>Citrus Heights Irrigation District</li> <li>Squaw Valley Co. Water District</li> <li>Tehachapi-Cummings Co. Water District</li> <li>Fall River Conservation District</li> <li>Nevada Irrigation District</li> <li>Amador County Water Resources</li> <li>Jackson Valley Irrigation District</li> <li>Omochumne-Hartnell Water District</li> <li>El Dorado Irrigation District</li> <li>Mill Race Group</li> <li>Placer County Water Agency</li> </ul> | <ul style="list-style-type: none"> <li>West Lake Resources Conservation District</li> <li>Sierra County Department of Planning</li> <li>Yuba County Water District</li> <li>Plumas County</li> <li>Plumas County Private Rancher</li> <li>Indian-American Valleys RCD</li> <li>Calaveras County Water District</li> <li>Big Valley Irrigation District</li> <li>Pit RCD Resource Conservation District</li> <li>South Fork Irrigation District</li> </ul> |
|---|---|



## APPENDIX A

Category (b1): Natural water bodies dominated by agricultural drainage water. Criteria set down in the ISWP.

Category (b2): Natural water bodies dominated by agricultural supply water. Almost every stream, creek and river within the Central Valley is dominated by water that will be used for agricultural supply. It is not our intent to list all these waterways. The only water bodies we have included carry all of the following criteria:

- a) Agricultural supply water dominated the flow and water quality of the water body.
- b) The agricultural supply water is not the same natural flow that would have been in the water body.
- c) The flow is released into the natural channel and subject to significant changes in volume.
- d) The natural channel would not have had significant flow or aquatic life beneficial uses in the absence of the agricultural supply flows.
- e) The agricultural supply flows are subject to releases and diversions and are not necessarily continuous throughout the irrigation season or year.

Category (c1): Water bodies that are constructed (drains) for the primary purpose of conveying or holding agricultural return flows or drainage and were not natural water bodies which supported aquatic life beneficial uses. Does not include on-farm facilities, such as furrows, beds, checks, ditches and sumps.

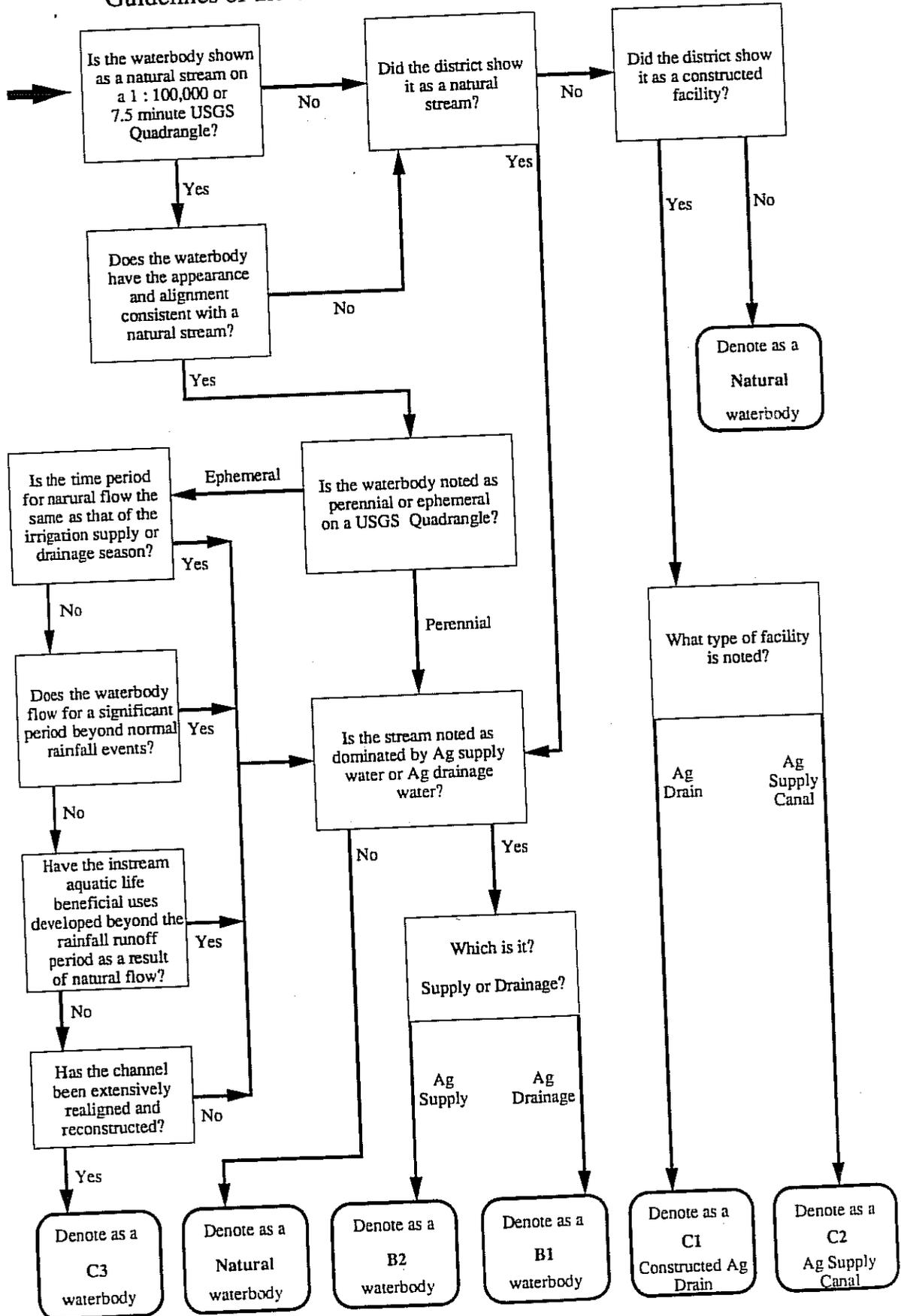
Category (c2): Water bodies that are constructed (canals or channels) to carry irrigation supply water and may, at times, carry blended or recycled agricultural drainage or return flows as supply water.

Category (c3): Natural dry water bodies that have been altered and now only carry agricultural return flows or agricultural supply water. These water bodies may only be dominated by these flows for defined periods each year and the (c3) designation would only apply during this time interval. Water bodies designated under this category must meet all of the following criteria.

- a) In the absence of agricultural return flows or irrigation supply water, the water body is ephemeral and only carries flow during heavy rainfall events or very wet periods.
- b) In the absence of agricultural return flows or irrigation supply water, in-stream aquatic life beneficial uses would not be present.
- c) Shows evidence of extensive in-stream channel modifications including reconstruction and realignment.
- d) Riparian habitat has developed as a result of the presence of agricultural return flows or agricultural supply water.

**Figure A-1**

**Flowchart for Categorization of Water Bodies According to the Guidelines of the California Inland Surface Waters Plan**



## **APPENDIX B**

(To be mailed separately)