

1992  
WATER  
QUALITY  
ASSESSMENT  
FACT SHEETS

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: DELTA WATERWAYS

Hydrologic Unit No.: 544.00

Total Areal Extent: 48000 AC

Type of Resource: Estuaries

Clean Water Strategy Rating

Resource Value: 1

Uniqueness: 1

Magnitude of Use: 1

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Health advisories for Hg  
Fisheries habitat impairment  
Elevated Dioxin, pesticides

Location:

Problem/Need(s) and Source Description: Fish at Vernalis and Hood exceed NAS and FDA guidelines for chlordane, DDT, toxaphene and Group A pesticides. Delta-wide, fish exceed NAS/FDA guidelines for mercury. A consumerhealth advisory is in effect for mercury in striped bass. In localized areas, fish contain elevated dioxin levels. Bioassay results suggest that Delta waters are periodically toxic. Metal levels exceed EPA criteria. Ammonia and unknown toxicity are concerns in San Joaquin River from Vernalis to Stockton.

	Concern 1	Concern 2	Concern 3
Specific Location:	Entire Delta	: Entire Delta 2	: Antioch and Mormon Slough
Type of Pollutants/Parameters:	MERCURY	: PES, DDT, CHLORDANE : TOXAPHENE	: DIOXIN
Method of Assessment:	Measured	: Measured	: Measured
Water Quality Impaired or Threatened?:	Impaired - 1	: Impaired - 3	: Threatened - 3
Major Beneficial Use Category Affected:	Recreational	: Aquatic	: Recreational
Type of Source(s):	MINI	: AGRI, AGSU, AGTA	: INDU
Areal Extent:	48000e AC	: 48000e AC	: 500e AC
Programs Affected:	NPS, MONITOR, SPEC-INV	: NPS, MONITOR, SPEC-INV	: NPDES

	Concern 4	Concern 5	Concern 6
Specific Location:	San Joaquin River near Stockton	: Various locations	: Entire Delta 3
Type of Pollutants/Parameters:	DIS OXYGEN	: UTX	: MET, COPPER, CADMIUM : LEAD
Method of Assessment:	Measured	: Measured	: Measured
Water Quality Impaired or Threatened?:	Impaired - 2	: Impaired - 3	: Impaired - 3
Major Beneficial Use Category Affected:	Aquatic	: Aquatic	: Aquatic
Type of Source(s):	AQUA	: UNKN	: MINI, MUNI, URBA, AGRI, DRED
Areal Extent:	75e AC	: 48000 AC	: 48000e AC
Programs Affected:	NPDES, MONITOR	: NPS, MONITOR, SPEC-INV, NPDES	: NPS, MONITOR, SPEC-INV, NPDES

e = areal extent of problem is estimated

Date Last Updated: 11/29/90

C-110942  
C-110942

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: WESTSIDE BASIN PORT

Hydrologic Unit No.: 5.22

Total Areal Extent: 1040 SQMI

Type of Resource: Ground Water

Clean Water Strategy Rating

Resource Value: 2

Uniqueness: 5

Magnitude of Use: 2

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Naturally occurring trace elements

Location: San Joaquin Valley, western portion of Fresno and Kings County

Problem/Need(s) and Source Description: The upper groundwater contains natural trace elements (selenium, boron) and salts which have been concentrated due to agricultural practices to such an extent that agricultural beneficial uses have been impaired.

	Concern 1	Concern 2	Concern 3
Specific Location:	Entire Basin (Upper portion) 3	: Entire Basin (upper portion)	: Entire Basin (upper portion) 1
Type of Pollutants/Parameters:	BORON	: DIS	: TRA, SELENIUM
Method of Assessment:	Measured	: Measured	: Measured
Water Quality Impaired or Threatened?:	Impaired - 3	: Impaired - 1	: Impaired - 1
Major Beneficial Use Category Affected:	Agricultural	: Agricultural	: Aquatic
Type of Source(s):	NATU, AGRI	: AGRI	: AGRI, NATU
Areal Extent:	750e SQMI	: 750e SQMI	: 750e SQMI
Programs Affected:	NPS, MONITOR, SPEC-INV	: NPS, SPEC-INV	: NPS, SPEC-INV

	Concern 4	Concern 5	Concern 6
Specific Location:	:	:	:
Type of Pollutants/Parameters:	:	:	:
Method of Assessment:	:	:	:
Water Quality Impaired or Threatened?:	:	:	:
Major Beneficial Use Category Affected:	:	:	:
Type of Source(s):	:	:	:
Areal Extent:	:	:	:
Programs Affected:	:	:	:

e = areal extent of problem is estimated

Date Last Updated: 01/14/91

C-110943

ate: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: TURLOCK BASIN PORT

Hydrologic Unit No.: 5-22

Total Areal Extent: 545 SQMI

Type of Resource: Ground Water

Mean Water Strategy Rating

Resource Value: 2

Uniqueness: 5

Magnitude of Use: 2

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Drinking water impairment  
Pesticides/herbicides  
Fuel leaks/VOC pollution

Location: San Joaquin Valley in Turlock area

Problem/Need(s) and Source Description: Nitrate and salinity problems are widespread. Elevated levels of DBCP are present in the Delhi/Hilmar area and throughout the eastern portion of the Basin. There are more than 50 confirmed groundwater pollution/degradation sites associated with discharges from underground tanks, industries, and commercial facilities (mostly VOCs).

	Concern 1	Concern 2	Concern 3
Specific Location:	Delhi/Hilmar area and along Hi 99	: Eastern portion & Delhi/Hilmar area	: Entire basin
Type of Pollutants/Parameters:	NIT	: PES, DBCP	: DIS
Method of Assessment:	Measured	: Measured	: Measured
Water Quality Impaired or Threatened?:	Impaired - 2	: Impaired - 3	: Impaired - 3
Major Beneficial Use Category Affected:	Municipal	: Municipal	: Municipal
Type of Source(s):	AGRI, ONSI	: AGRI	: AGRI, ONSI, DAIR
Areal Extent:	40e SQMI	: 24e SQMI	: 40e SQMI
Programs Affected:	NPS, MONITOR, SPEC-INV	: NPS, MONITOR, SPEC-INV, WIP	: NPS, MONITOR, SPEC-INV

	Concern 4	Concern 5	Concern 6
Specific Location:	Turlock, Ceres vicinity	:	:
Type of Pollutants/Parameters:	PRI, NPR	:	:
Method of Assessment:	Measured	:	:
Water Quality Impaired or Threatened?:	Impaired - 3	:	:
Major Beneficial Use Category Affected:	Municipal	:	:
Type of Source(s):	INDU, LUST	:	:
Areal Extent:	3e SQMI	:	:
Programs Affected:	NPS, UGT, WIP, UNREG	:	:

= areal extent of problem is estimated

Date Last Updated: 01/14/91

C-110944  
C-110944

ate: 08/13/92

WATER BODY FACT SHEET

Region: 5

ater Body Name: TULE BASIN PORT

Hydrologic Unit No.: 5.22

Total Areal Extent: 730 SQMI

Type of Resource: Ground Water

lean Water Strategy Rating

Resource Value: 2

Uniqueness: 5

Magnitude of Use: 2

SUMMARY OF PROBLEM(S) OR CONCERN(S)

ype of Problem/Need: Drinking water impairment  
Pesticides/herbicides  
Fuel leaks/VOC pollution

Location: San Joaquin Valley in southwest portion of Tulare County

Problem/Need(s) and Source Description: Nitrates exceed MCLs in belt along the eastern portion of the Basin. DBCPs detected at scattered locations. Other pesticides detected occasionally. There are some confirmed groundwater pollution/degradation sites associated with discharges from underground tanks, industries, and commercial facilities. Elevated TDS levels are present in the eastern portion of the Basin. The southwest corner of the Basin around Allensworth has elevated natural arsenic levels. Basin is overdrafted.

	Concern 1	Concern 2	Concern 3
Specific Location:	Eastern portion of Basin	: Scattered locations	: Eastern & Western portion of Basin
Type of Pollutants/Parameters:	NIT	: PES, DBCP	: DIS
		:	:
Method of Assessment:	Measured	: Measured	: Measured
		:	:
Water Quality Impaired or Threatened?:	Impaired - 3	: Impaired - 3	: Impaired - 3
Major Beneficial Use Category Affected:	Municipal	: Municipal	: Municipal
		:	:
Type of Source(s):	AGRI, ONSI, FEED, DAIR	: AGRI	: AGRI, FEED, DAIR
Areal Extent:	10e SQMI	: 10e SQMI	: 50e SQMI
Programs Affected:	NPS, MONITOR, SPEC-INV	: NPS, MONITOR, SPEC-INV, WIP	: NPS, MONITOR, SPEC-INV

	Concern 4	Concern 5	Concern 6
Specific Location:	Primarily around Porterville	: Southwest corner of Basin	:
Type of Pollutants/Parameters:	PRI, NPR	: ARSENIC	:
		:	:
Method of Assessment:	Measured	: Measured	:
		:	:
Water Quality Impaired or Threatened?:	Impaired - 3	: Impaired - 1	:
Major Beneficial Use Category Affected:	Municipal	: Municipal	:
		:	:
Type of Source(s):	LUST, INDU	: NATU	:
Areal Extent:	10e SQMI	: 30e SQMI	:
Programs Affected:	UGT, UNREG, NPS, WIP	: NPS, MONITOR	:

= areal extent of problem is estimated

Date Last Updated: 01/14/91

C-110945

C-110945

te: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: TULARE LAKE BASIN PORT

Hydrologic Unit No.: 5.22

Total Areal Extent: 780 SQMI

Type of Resource: Ground Water

San Water Strategy Rating

Resource Value:

Uniqueness:

Magnitude of Use:

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Drinking water impairment  
Pesticides/herbicides  
Fuel leaks/VOC pollution

Location: San Joaquin Valley in Kings County

Problem/Need(s) and Source Description: There are isolated occurrences of elevated nitrates in the Hanford-Lemoore area and on the west side of Kettlemen City. The upper groundwater has high TDS levels and high trace element levels (arsenic, molybdenum, boron, uranium, selenium). DBCPs are suspected but as yet unconfirmed. There are more than 50 confirmed groundwater pollution/degradation sites associated with discharges from underground tanks, industries, and commercial facilities (mostly VOCs). The Basin is overdrafted.

	Concern 1	Concern 2	Concern 3
Specific Location:	Hanford, Lemoore, Kettlemen City	: South and East side of Tulare Lake bed	: Tulare Lake bed
Type of Pollutants/Parameters:	NIT	: TRA, ARSENIC, MOLYBDENUM : URANIUM, BORON	: DIS
Method of Assessment:	Measured	: Measured	: Measured
Water Quality Impaired or Threatened?:	Impaired - 3	: Impaired - 1	: Impaired - 2
Major Beneficial Use Category Affected:	Municipal	: Municipal	: Municipal
Type of Source(s):	AGRI	: NATU, AGRI	: AGRI
Areal Extent:	10e SQMI	: 50e SQMI	: 80e SQMI
Programs Affected:	NPS, MONITOR, SPEC-INV	: NPS, MONITOR, SPEC-INV	: NPS, MONITOR, SPEC-INV

	Concern 4	Concern 5	Concern 6
Specific Location:	Near Kettlemen City and S of Lake bed	: Near urban areas and military sites	:
Type of Pollutants/Parameters:	SELENIUM	: PRI, NPR	:
Method of Assessment:	Measured	: Measured	:
Water Quality Impaired or Threatened?:	Impaired - 2	: Impaired - 3	:
Major Beneficial Use Category Affected:	Aquatic	: Municipal	:
Type of Source(s):	NATU, AGRI	: LUST, INDU	:
Areal Extent:	50e SQMI	: 5e SQMI	:
Programs Affected:	NPS	: UGT, UNREG, WIP	:

= areal extent of problem is estimated

Date Last Updated: 01/15/91

C-110946

C-110946

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: TRACY BASIN PORT

Hydrologic Unit No.: 5.22

Total Areal Extent: 570 SQMI

Type of Resource: Ground Water

Clean Water Strategy Rating

Resource Value: 3

Uniqueness: 5

Magnitude of Use: 3

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Drinking water impairment  
Pesticides/herbicides  
Fuel Leaks/VOC pollution

Location: San Joaquin Valley in west portion of San Joaquin County  
and part of Contra Costa County

Problem/Need(s) and Source Description: Nitrates exceed mcls in vicinity of Tracy and Brentwood. There are some areas with elevated TDS levels, mostly associated with Delta intrusion or agricultural practices. There are some areas with elevated trace elements (boron, molybdenum, and arsenic). There are more than 50 confirmed groundwater pollution/degradation sites associated with discharges from underground tanks, industries, commercial facilities, and DOD/DOE facilities (mostly VOCs).

	Concern 1	Concern 2	Concern 3
Specific Location:	Tracy and Brentwood areas	: Tracy vicinity	: Tracy vicinity 1
Type of Pollutants/Parameters:	NIT	: DIS	: TRA, BORON, MOLYBDENUM
		:	: ARSENIC
Method of Assessment:	Measured	: Measured	: Measured
		:	:
Water Quality Impaired or Threatened?:	Impaired - 3	: Impaired - 4	: Impaired - 3
Major Beneficial Use Category Affected:	Municipal	: Municipal	: Municipal
		:	:
Type of Source(s):	AGRI, ONSI	: AGRI, NATU	: NATU
Areal Extent:	10e SQMI	: 10e SQMI	: 10e SQMI
Programs Affected:	NPS, MONITOR, SPEC-INV	: NPS, SPEC-INV, MONITOR	: NPS, MONITOR, SPEC-INV
		:	:
	Concern 4	Concern 5	Concern 6
Specific Location:	Tracy and Antioch	:	:
Type of Pollutants/Parameters:	PRI, NPR	:	:
		:	:
Method of Assessment:	Measured	:	:
		:	:
Water Quality Impaired or Threatened?:	Impaired - 3	:	:
Major Beneficial Use Category Affected:	Municipal	:	:
		:	:
Type of Source(s):	LUST, INDU	:	:
Areal Extent:	5e SQMI	:	:
Programs Affected:	UNREG, WIP, UGT	:	:

e = areal extent of pr e estimated

Date Last Updated: 01/14/91

C-110947

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: SACRAMENTO VALLEY BASIN

Hydrologic Unit No.: 5.21

Total Areal Extent: 5000 SQMI

Type of Resource: Ground Water

Clean Water Strategy Rating

Resource Value: 2

Uniqueness: 5

Magnitude of Use: 2

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Drinking water impairment  
Pesticides/herbicides  
Fuel leaks/VOC pollution

Location: Entire Sacramento Valley

Problem/Need(s) and Source Description: Elevated nitrates severely impact Chico and much of Sutter County. Less severe impacts are found in the vicinity of Knights Landing, Arbuckle, Yuba City, Willows and Red Bluff. Bentazon has been found in wells in Glenn, Colusa, Sutter, Yolo and Yuba Counties, as have other pesticides, but to a lesser degree. There are more than 100 confirmed pollution/degradation sites associated with discharges from underground tanks, industries, and commercial facilities. Elevated TDS around the Delta.

	Concern 1	Concern 2	Concern 3
Specific Location:	Chico vicinity and Sutter County	: Glenn, Colusa, Sutter, Yuba, Yolo Co.	: Scattered, mostly near urban areas
Type of Pollutants/Parameters:	NIT	: PES, BENTAZON	: PRI, NPR
Method of Assessment:	Measured	: Measured	: Measured
Water Quality Impaired or Threatened?:	Impaired - 1	: Impaired - 2	: Impaired - 3
Major Beneficial Use Category Affected:	Municipal	: Municipal	: Municipal
Type of Source(s):	AGRI, ONSI	: AGRI	: LUST, INDU
Areal Extent:	300e SQMI	: 30e SQMI	: 12e SQMI
Programs Affected:	NPS, MONITOR, SPEC-INV	: NPS, MONITOR, SPEC-INV	: UGT, UNREG, WIP

	Concern 4	Concern 5	Concern 6
Specific Location:	:	:	:
Type of Pollutants/Parameters:	:	:	:
Method of Assessment:	:	:	:
Water Quality Impaired or Threatened?:	:	:	:
Major Beneficial Use Category Affected:	:	:	:
Type of Source(s):	:	:	:
Areal Extent:	:	:	:
Programs Affected:	:	:	:

e = areal extent of problem is estimated

Date Last Updated: 01/14/91

C-110948

C-110948

ate: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: SACRAMENTO COUNTY BASIN PORT

Hydrologic Unit No.: 5.21

Total Areal Extent: 750 SQMI

Type of Resource: Ground Water

Clean Water Strategy Rating

Resource Value: 2

Uniqueness: 5

Magnitude of Use: 2

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Drinking water impairment  
Fuel leaks/VOC pollution

Location: Sacramento County

Problem/Need(s) and Source Description: There are more than 100 confirmed groundwater pollution/impairment sites associated with discharges from underground tanks, industries, military facilities, and commercial facilities (mostly VOCs).

	Concern 1	Concern 2	Concern 3
Specific Location:	Sacramento urban area		
Type of Pollutants/Parameters:	PRI, NPR		
Method of Assessment:	Measured		
Water Quality Impaired or Threatened?:	Impaired - 3		
Major Beneficial Use Category Affected:	Municipal		
Type of Source(s):	LUST, INDU		
Areal Extent:	27e SQMI		
Programs Affected:	UGT, UNREG		

	Concern 4	Concern 5	Concern 6
Specific Location:			
Type of Pollutants/Parameters:			
Method of Assessment:			
Water Quality Impaired or Threatened?:			
Major Beneficial Use Category Affected:			
Type of Source(s):			
Areal Extent:			
Programs Affected:			

e = areal extent of problem is estimated

Date Last Updated: 01/14/91

C-110949

C-110949

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: MODESTO BASIN PORT

Hydrologic Unit No.: 5.22

Total Areal Extent: 340 SQMI

Type of Resource: Ground Water

Clean Water Strategy Rating

Resource Value: 2

Uniqueness: 5

Magnitude of Use: 2

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Drinking water impairment
Pesticides/herbicides
Fuel leaks/VOC pollution

Location: San Joaquin Valley in Modesto vicinity

Problem/Need(s) and Source Description: Nitrates exceed mcls in the vicinity of Modesto and along Highway 99 corridor. DBCPs are widespread in and around Modesto. Other pesticides occur less frequently. There are more than 50 confirmed groundwater pollution/impairment sites (mostly VOCs) associated with discharges from underground tanks, industries, commercial facilities and a DOD/DOE facility.

Table with 3 columns: Concern 1, Concern 2, Concern 3. Rows include Specific Location, Type of Pollutants/Parameters, Method of Assessment, Water Quality Impaired or Threatened?, Major Beneficial Use Category Affected, Type of Source(s), Areal Extent, and Programs Affected.

Table with 3 columns: Concern 4, Concern 5, Concern 6. Rows include Specific Location, Type of Pollutants/Parameters, Method of Assessment, Water Quality Impaired or Threatened?, Major Beneficial Use Category Affected, Type of Source(s), Areal Extent, and Programs Affected.

e = areal extent of problem is estimated

Date Last Updated: 01/14/91

WATER BODY FACT SHEET

Region: 5

Water Body Name: MERCED BASIN PORT Hydrologic Unit No.: 5.22 Total Areal Extent: 690 SQMI Type of Resource: Ground Water

Clean Water Strategy Rating Resource Value: 2 Uniqueness: 5 Magnitude of Use: 2

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Drinking water impairment Pesticides/herbicides Fuel leaks/VOC pollution Location: San Joaquin Valley in Merced area

Problem/Need(s) and Source Description: Nitrates exceed MCLs over a wide area, mostly extending along the Highway 99 corridor. DBCPs are widespread in and around Merced, Atwater, Livingston and other areas. Other pesticides are occasionally detected. There are more than 50 confirmed groundwater pollution/degradation sites (mostly VOCs) associate with discharges from underground tanks, industries, commercial facilities and a DOD/DOE site.

Concern 1	Concern 2	Concern 3	Concern 4	Concern 5	Concern 6
Specific Location: Highway 99 corridor & NW portion	Merced, Atwater, Livingston area	Scattered, mostly urban areas			
Type of Pollutants/Parameters: NIT	PES, DBCP	PRI, NPR			
Method of Assessment: Measured	Measured	Measured			
Water Quality Impaired or Threatened?: Impaired - 1	Impaired - 1	Impaired - 3			
Major Beneficial Use Category Affected: Municipal	Municipal	Municipal			
Type of Source(s): AGR, ONSI, FEED, DAIR	AGRI	INDU, LUST			
Areal Extent: 45e SQMI	144e SQMI	3e SQMI			
Programs Affected: NPS, MONITOR, SPEC-INV	NPS, MONITOR, SPEC-INV, WIP	UGT, UNREG, NPS, WIP			

Date last updated: 01/14/91

e = areal extent of problem is estimated

C-110951

C-110951

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: MADERA BASIN PORT

Hydrologic Unit No.: 5.22

Total Areal Extent: 580 SQMI

Type of Resource: Ground Water

Mean Water Strategy Rating

Resource Value: 2

Uniqueness: 5

Magnitude of Use: 2

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Location of Problem/Need: Drinking water impairment  
Pesticides/herbicides  
Fuel leaks/VOC pollution

Location: San Joaquin Valley in Madera area

Problem/Need(s) and Source Description: Scattered areas of elevated nitrates, occasionally exceeding MCLs. DBCPs detected at scattered locations. Other pesticides occasionally detected. Some pollution/degradation associated with discharges from underground tanks, industries, and commercial facilities (mostly VOCs). Basin is in overdraft, and this has exacerbated existing salt problem.

	Concern 1	Concern 2	Concern 3
Specific Location:	Near Berenda and Ripperdan	: Scattered throughout Basin	: Scattered, mostly in Valley trough
Type of Pollutants/Parameters:	NIT, DBCP	: PES	: DIS
Method of Assessment:	Measured	: Measured	: Measured
Water Quality Impaired or Threatened?:	Impaired - 4	: Impaired - 4	: Impaired - 2
Major Beneficial Use Category Affected:	Municipal	: Municipal	: Municipal
Type of Source(s):	AGRI, ONSI, FEED, DAIR	: AGRI	: AGRI, FEED, INDU, DAIR, INDU
Areal Extent:	20e SQMI	: 20e SQMI	: 10e SQMI
Programs Affected:	NPS, MONITOR, SPEC-INV	: NPS, MONITOR, SPEC-INV, WIP	: NPS, MONITOR, SPEC-INV

	Concern 4	Concern 5	Concern 6
Specific Location:	Scattered, mostly near urban areas	:	:
Type of Pollutants/Parameters:	PRI, NPR	:	:
Method of Assessment:	Measured	:	:
Water Quality Impaired or Threatened?:	Impaired - 4	:	:
Major Beneficial Use Category Affected:	Municipal	:	:
Type of Source(s):	INDU, LUST	:	:
Areal Extent:	2e SQMI	:	:
Programs Affected:	UGT, UNREG, NPS, WIP	:	:

= areal extent of problem is estimated

Date Last Updated: 01/14/91

C-110952  
C-110952

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: KINGS BASIN PORT

Hydrologic Unit No.: 5.22

Total Areal Extent: 1610 SQMI

Type of Resource: Ground Water

Clean Water Strategy Rating

Resource Value: 1

Uniqueness: 1

Magnitude of Use: 1

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Drinking water impairment
Pesticides/herbicides
Fuel leaks/VOC pollution

Location: San Joaquin Valley in Fresno area

Problem/Need(s) and Source Description: Nitrates exceed mcls in Fresno-Clovis area and to the west, in the Raisin City-Carruthers area, around Kingsburg and in the Reedley-Orange Cove area. DBCPs detected throughout the eastern part of the Basin. There are more than 50 confirmed groundwater pollution/degradation sites associated discharges from underground tanks, industries, and commercial facilities (mostly VOCs). There is elevated TDS in the western portion of the Basin. The Basin is in overdraft.

Table with 4 columns: Specific Location, Type of Pollutants/Parameters, Method of Assessment, Water Quality Impaired or Threatened?, Major Beneficial Use Category Affected, Type of Source(s), Areal Extent, Programs Affected. Rows correspond to Concern 1, 2, and 3.

Table with 4 columns: Specific Location, Type of Pollutants/Parameters, Method of Assessment, Water Quality Impaired or Threatened?, Major Beneficial Use Category Affected, Type of Source(s), Areal Extent, Programs Affected. Rows correspond to Concern 4, 5, and 6.

e = areal extent of problem is estimated

Date Last Updated: 01/14/91

C-110953

C-110953

Water Body Name: KERN COUNTY BASIN PORT

Hydrologic Unit No.: 5.22

Total Areal Extent: 3770 SQMI

Type of Resource: Ground Water

Clean Water Strategy Rating

Resource Value:

Uniqueness:

Magnitude of Use:

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Drinking water impairment  
Pesticides/herbicides  
Agriculture impairment

Location: San Joaquin Valley in Bakersfield area

Problem/Need(s) and Source Description: Elevated nitrate levels affect water supplies in Delano, McFarland, Wasco-Shafter, Bakersfield, Maricopa and Taft. DBC and other pesticides have been detected along the central portion of the Basin. The western portion of the Basin has elevated TDS levels. There are more than 50 confirmed groundwater pollution/degradation sites associated with discharges from underground tanks, industries, and commercial facilities. Trace elements are elevated in Goose Lake bed. Basin is overdrafted.

	Concern 1	Concern 2	Concern 3
Specific Location:	Eastern portion of Basin	: Central portion of Basin	: Western portion of Basin
Type of Pollutants/Parameters:	NIT	: PES, DBCP	: DIS
		:	:
Method of Assessment:	Measured	: Measured	: Measured
		:	:
Water Quality Impaired or Threatened?:	Impaired - 1	: Impaired - 1	: Impaired - 1
Major Beneficial Use Category Affected:	Municipal	: Municipal	: Municipal
		:	:
Type of Source(s):	AGRI, ONSI, FEED, DAIR	: AGRI	: AGRI
Areal Extent:	372e SQMI	: 380e SQMI	: 1370e SQMI
Programs Affected:	NPS, MONITOR, SPEC-INV	: NPS, MONITOR, SPEC-INV, WIP	: NPS, MONITOR, SPEC-INV

	Concern 4	Concern 5	Concern 6
Specific Location:	Wasco to Arvin along Hi 99 corridor	: Goose Lake bed	: NW and SE alluvial areas
Type of Pollutants/Parameters:	PRI, NPR	: ARSENIC, TRA	: SELENIUM
		:	:
Method of Assessment:	Measured	: Measured	: Measured
		:	:
Water Quality Impaired or Threatened?:	Impaired - 3	: Impaired - 4	: Impaired - 2
Major Beneficial Use Category Affected:	Municipal	: Agricultural	: Municipal
		:	:
Type of Source(s):	LUST, INDU	: NATU, AGRI	: NATU, AGRI
Areal Extent:	10e SQMI	: 50e SQMI	: 50e SQMI
Programs Affected:	UGT, UNREG, NPS, WIP	: NPS, MONITOR	: NPS, MONITOR, SPEC-INV

e = areal extent of problem is estimated

Date Last Updated: 01/14/91

C-110954

C-110954

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: KAWEAH BASIN PORT      Hydrologic Unit No.: 5.22      Total Areal Extent: 690 SQMI      Type of Resource: Ground Water

Clean Water Strategy Rating      Resource Value: 2      Uniqueness: 5      Magnitude of Use: 2

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Drinking water impairment      Location: San Joaquin Valley in Visalia area  
Pesticides/herbicides  
Fuel leaks/VOC pollution

Problem/Need(s) and Source Description: Nitrates exceed mcls along the eastern portion of the Basin and have affected wells in Visalia, Dinuba, and other cities. Some DBCPs detected, mostly along the eastern side of the Basin. There are elevated TDS levels in the south eastern portion of the Basin. There are more than 50 confirmed groundwater pollution/degradation sites associated with discharges from underground tanks, industries, and commercial facilities (mostly VOCs). The Basin is overdrafted.

	Concern 1	Concern 2	Concern 3
Specific Location:	Eastern portion of Basin	: Central portion of basin	: South eastern portion of Basin
Type of Pollutants/Parameters:	NIT	: PES, DBCP	: DIS
		:	:
Method of Assessment:	Measured	: Best Professional Judgement	: Measured
		:	:
Water Quality Impaired or Threatened?:	Impaired - 3	: Impaired - 2	: Impaired - 3
Major Beneficial Use Category Affected:	Municipal	: Municipal	: Municipal
		:	:
Type of Source(s):	AGRI, ONSI, FEED, DAIR	: AGRI	: AGRI, FEED
Areal Extent:	70e SQMI	: 70e SQMI	: 70e SQMI
Programs Affected:	NPS, MONITOR, SPEC-INV	: NPS, MONITOR, SPEC-INV, WIP	: NPS, MONITOR, SPEC-INV

	Concern 4	Concern 5	Concern 6
Specific Location:	Primarily around Visalia	:	:
Type of Pollutants/Parameters:	PRI, NPR	:	:
		:	:
Method of Assessment:	Measured	:	:
		:	:
Water Quality Impaired or Threatened?:	Impaired - 3	:	:
Major Beneficial Use Category Affected:	Municipal	:	:
		:	:
Type of Source(s):	LUST, INDU	:	:
Areal Extent:	2e SQMI	:	:
Programs Affected:	UGT, UNREG, WIP, NPS	:	:

e = areal extent of problem is estimated

Date Last Updated: 01/14/91

C-110955

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: DELTA - MENDOTA BASIN PORT

Hydrologic Unit No.: 5.22

Total Areal Extent: 365 SQMI

Type of Resource: Ground Water

Clean Water Strategy Rating

Resource Value: 4

Uniqueness: 5

Magnitude of Use: 4

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Drinking water impairment  
Pesticides/herbicides  
Fuel leaks/VOC pollution

Location: San Joaquin Valley on east side of Stanislaus and Merced  
County

Problem/Need(s) and Source Description: Shallow ground water (above Corcoran Clay) located between the Aqueduct and the San Joaquin River has elevated nitrates (exceeds MCLs in vicinity of Firebaugh, Newman, Gustine, Los Banos and Dos Palos); widespread elevated TDS (highest between Los Banos and Mendota); wide spread elevated selenium (primarily between Los Banos and Mendota); widespread elevated boron and molybdenum (around Los Banos and to the south); and widespread elevated arsenic.

	Concern 1	Concern 2	Concern 3
Specific Location:	Firebaugh, Newman, Gustine, and others	Mendota and Grasslands areas	Mainly between Los Banos and Mendota
Type of Pollutants/Parameters:	NIT	DIS	SELENIUM
Method of Assessment:	Measured	Measured	Measured
Water Quality Impaired or Threatened?:	Impaired - 3	Impaired - 1	Impaired - 1
Major Beneficial Use Category Affected:	Municipal	Municipal	Aquatic
Type of Source(s):	AGRI	AGRI, NATU	NATU, AGRI
Areal Extent:	10e SQMI	120e SQMI	100e SQMI
Programs Affected:	NPS, MONITOR, SPEC-INV	NPS, MONITOR, SPEC-INV	NPS, MONITOR, SPEC-INV

	Concern 4	Concern 5	Concern 6
Specific Location:	Scattered 1	Scattered 2	Scattered 3
Type of Pollutants/Parameters:	BORON	ARSENIC	PRI, NPR
Method of Assessment:	Measured	Measured	Measured
Water Quality Impaired or Threatened?:	Impaired - 2	Impaired - 2	Impaired - 4
Major Beneficial Use Category Affected:	Agricultural	Municipal	Municipal
Type of Source(s):	NATU, AGRI	NATU	INDU, LUST
Areal Extent:	200e SQMI	100e SQMI	1e SQMI
Programs Affected:	NPS, MONITOR, SPEC-INV	NPS, MONITOR, SPEC-INV	UGT, UNREG, WIP

e = areal extent of problem is estimated

Date Last Updated: 01/14/91

C-110956

C-110956

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: CHOWCHILLA BASIN PORT

Hydrologic Unit No.: 5.22

Total Areal Extent: 230 SQMI

Type of Resource: Ground Water

Clean Water Strategy Rating

Resource Value:

Uniqueness:

Magnitude of Use:

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Drinking water impairment
Pesticides/herbicides
Fuel leaks/VOC pollution

Location: San Joaquin Valley in Chowchilla area

Problem/Need(s) and Source Description: Areas around Chowchilla have elevated nitrates, occasionally exceeding MCLs. DBCPs and other pesticides occasionally detected. Some pollution/degradation associated with discharges from underground tanks, industries, and commercial facilities (mostly VOCs). Some areas have been impacted by elevated salt levels that have resulted from agricultural practices. The Basin has been overdrafted.

Table with 3 columns: Concern 1, Concern 2, Concern 3. Rows include Specific Location, Type of Pollutants/Parameters, Method of Assessment, Water Quality Impaired or Threatened?, Major Beneficial Use Category Affected, Type of Source(s), Areal Extent, and Programs Affected.

Table with 3 columns: Concern 4, Concern 5, Concern 6. Rows include Specific Location, Type of Pollutants/Parameters, Method of Assessment, Water Quality Impaired or Threatened?, Major Beneficial Use Category Affected, Type of source(s), Areal Extent, and Programs Affected.

e = areal extent of problem is estimated

ater Body Name: SHASTA LAKE

lean Water Strategy Rating

Resource Value: 2

Uniqueness: 5

Magnitude of Use: 2

WATER BODY FACT SHEET

Hydrologic Unit No.: 506.1 Total Areal Extent: 29500 AC Type of Resource: Lakes and Reservoirs

Region: 5

Type of Problem/Need: Fish Kills Mining drainage

Location: 20 acres in the vicinity of the discharges of little Backbone Creek and Little Squaw Creek.

Problem/Need(s) and Source Description: fish kills occur periodically in the lake where little Backbone and Little Squaw Creeks empty into the lake. Copper, cadmium, and zinc levels exceed aquatic life criteria.

Specific Location:	Type of Pollutants/Parameters:	Method of Assessment:	Water Quality Impaired or Threatened?:	Major Beneficial Use Category Affected:	Type of Source(s):	Areal Extent:	Programs Affected:
Concern 1 Little Backbone and Little Squaw Cr.	MET, COPPER, ZINC CADMIUM Measured		Impaired - 1	Aquatic	MINI	20e AC	NPS, MONITOR, SPEC-INV
Concern 2	:	:	:	:	:	:	:
Concern 3	:	:	:	:	:	:	:
Concern 4	:	:	:	:	:	:	:
Concern 5	:	:	:	:	:	:	:
Concern 6	:	:	:	:	:	:	:

e = areal extent of problem is estimated

Date Last Updated: / /

ate: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: PINE FLAT RES

Hydrologic Unit No.: 552.32

Total Areal Extent: 5970 AC

Type of Resource: Lakes and Reservoirs

Clean Water Strategy Rating

Resource Value: 3

Uniqueness: 5

Magnitude of Use: 3

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Threat of recreational impacts

Location: Kings River Drainage, Fresno County

Problem/Need(s) and Source Description: Elevated bacteria levels noted in DWR lakes report.

	Concern 1	Concern 2	Concern 3
Specific Location:	Entire reservoir		
Type of Pollutants/Parameters:	COL		
Method of Assessment:	Measured		
Water Quality Impaired or Threatened?:	Threatened - 4		
Major Beneficial Use Category Affected:	Aquatic		
Type of Source(s):	UNKN		
Areal Extent:	5970 AC		
Programs Affected:	NPS, MONITOR, SPEC-INV		

	Concern 4	Concern 5	Concern 6
Specific Location:			
Type of Pollutants/Parameters:			
Method of Assessment:			
Water Quality Impaired or Threatened?:			
Major Beneficial Use Category Affected:			
Type of Source(s):			
Areal Extent:			
Programs Affected:			

e = areal extent of problem is estimated

Date Last Updated: 12/13/90

C-110959

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: PARDEE RES

Hydrologic Unit No.: 532.60

Total Areal Extent: 2138 AC

Type of Resource: Lakes and Reservoirs

Clean Water Strategy Rating

Resource Value: 3

Uniqueness: 5

Magnitude of Use: 3

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Threat of elevated fish tissue levels  
Limited sampling

Location: Mokelumne River Drainage, Calaveras County

Problem/Need(s) and Source Description: In limited sampling, fish occasionally exceed the NAS mercury guideline. The significance of the discharge from the reservoir to downstream waters is unknown.

	Concern 1	Concern 2	Concern 3
Specific Location:	Entire reservoir		
Type of Pollutants/Parameters:	MERCURY		
Method of Assessment:	Measured		
Water Quality Impaired or Threatened?:	Threatened - 3		
Major Beneficial Use Category Affected:	Aquatic		
Type of Source(s):	MINI		
Areal Extent:	2138e AC		
Programs Affected:	NPS, MONITOR, SPEC-INV		

	Concern 4	Concern 5	Concern 6
Specific Location:			
Type of Pollutants/Parameters:			
Method of Assessment:			
Water Quality Impaired or Threatened?:			
Major Beneficial Use Category Affected:			
Type of Source(s):			
Areal Extent:			
Programs Affected:			

e = areal extent of problem is estimated

Date Last Updated: / /

C-110960

C-110960

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: MCCLURE RES

Hydrologic Unit No.: 537.22

Total Areal Extent: 7110 AC

Type of Resource: Lakes and Reservoirs

Clean Water Strategy Rating

Resource Value: 3

Uniqueness: 5

Magnitude of Use: 4

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Threat of elevated fish tissue levels

Location: Merced River Drainage, Mariposa County

Problem/Need(s) and Source Description: In limited sampling, fish occasionally exceed the NAS mercury guideline. The significance of the discharge from the reservoir to downstream waters is unknown.

	Concern 1	Concern 2	Concern 3
Specific Location:	Entire reservoir		
Type of Pollutants/Parameters:	MERCURY		
Method of Assessment:	Measured		
Water Quality Impaired or Threatened?:	Threatened - 3		
Major Beneficial Use Category Affected:	Aquatic		
Type of Source(s):	MINI		
Areal Extent:	7110 AC		
Programs Affected:	NPS, MONITOR, SPEC-INV		
	Concern 4	Concern 5	Concern 6
Specific Location:			
Type of Pollutants/Parameters:			
Method of Assessment:			
Water Quality Impaired or Threatened?:			
Major Beneficial Use Category Affected:			
Type of Source(s):			
Areal Extent:			
Programs Affected:			

e = areal extent of problem is estimated

Date Last Updated: 12/13/90

C-110961

C-110961

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: KAWEAH LAKE

Hydrologic Unit No.: 553.44

Total Areal Extent: 1940 AC

Type of Resource: Lakes and Reservoirs

Clean Water Strategy Rating

Resource Value: 4

Uniqueness: 5

Magnitude of Use: 4

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Elevated fish tissue levels  
Sedimentation  
Threat of recreational impacts

Location: Kaweah River Drainage, Tulare County

Problem/Need(s) and Source Description: Fish reported to contain elevated levels of copper, arsenic and silver. Sedimentation noted in lakes report by by DWR.  
Potential for high bacteria levels.

	Concern 1	Concern 2	Concern 3
Specific Location:	Entire lake	: Entire lake 1	:
Type of Pollutants/Parameters:	SED	: COPPER, ARSENIC, SILVER	:
		:	:
Method of Assessment:	Measured	: Best Professional Judgement	:
		:	:
Water Quality Impaired or Threatened?:	Threatened - 4	: Threatened - 4	:
Major Beneficial Use Category Affected:	Aquatic	: Aquatic	:
		:	:
Type of Source(s):	UNKN	: UNKN	:
Areal Extent:	1940e AC	: 1940e AC	:
Programs Affected:	NPS, MONITOR, SPEC-INV	: NPS, MONITOR, SPEC-INV	:

	Concern 4	Concern 5	Concern 6
Specific Location:	:	:	:
Type of Pollutants/Parameters:	:	:	:
	:	:	:
Method of Assessment:	:	:	:
	:	:	:
Water Quality Impaired or Threatened?:	:	:	:
Major Beneficial Use Category Affected:	:	:	:
	:	:	:
Type of Source(s):	:	:	:
Areal Extent:	:	:	:
Programs Affected:	:	:	:

e = areal extent of problem is estimated

Date Last Updated: 12/13/90

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: ISABELLA LAKE

Hydrologic Unit No.: 554.21

Total Areal Extent: 11400 AC

Type of Resource: Lakes and Reservoirs

Clean Water Strategy Rating

Resource Value: 3

Uniqueness: 5

Magnitude of Use: 3

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Sedimentation

Location: Kern River Drainage, Kern County

Problem/Need(s) and Source Description: Sedimentation problem noted in lakes report by DWR.

	Concern 1	Concern 2	Concern 3
Specific Location:	Entire lake		
Type of Pollutants/Parameters:	SED		
Method of Assessment:	Measured		
Water Quality Impaired or Threatened?:	Threatened - 4		
Major Beneficial Use Category Affected:	Aquatic		
Type of Source(s):	UNKN		
Areal Extent:	11400e AC		
Programs Affected:	NPS, MONITOR, SPEC-INV		

	Concern 4	Concern 5	Concern 6
Specific Location:			
Type of Pollutants/Parameters:			
Method of Assessment:			
Water Quality Impaired or Threatened?:			
Major Beneficial Use Category Affected:			
Type of Source(s):			
Areal Extent:			
Programs Affected:			

e = areal extent of problem is estimated

Date Last Updated: / /

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: EAST PARK RES

Hydrologic Unit No.: 522.33

Total Areal Extent: 1818 AC

Type of Resource: Lakes and Reservoirs

Clean Water Strategy Rating

Resource Value: 4

Uniqueness: 5

Magnitude of Use: 4

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Threat of elevated fish tissue levels  
Limited sampling  
Mercury exceeds MIS criteria in edible

Location:

Problem/Need(s) and Source Description: In limited sampling fish tissue occasionally exceeds NAS guideline for mercury.

	Concern 1	Concern 2	Concern 3
Specific Location:	Entire lake		
Type of Pollutants/Parameters:	MERCURY		
Method of Assessment:	Measured		
Water Quality Impaired or Threatened?:	Threatened - 3		
Major Beneficial Use Category Affected:	Aquatic		
Type of Source(s):	MINI		
Areal Extent:	1818e AC		
Programs Affected:	NPS, MONITOR, SPEC-INV		

	Concern 4	Concern 5	Concern 6
Specific Location:			
Type of Pollutants/Parameters:			
Method of Assessment:			
Water Quality Impaired or Threatened?:			
Major Beneficial Use Category Affected:			
Type of Source(s):			
Areal Extent:			
Programs Affected:			

e = areal extent of problem is estimated

Date Last Updated: / /

C-110964

C-110964

te: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: DON PEDRO RES

Hydrologic Unit No.: 536.32

Total Areal Extent: 12960 AC

Type of Resource: Lakes and Reservoirs

Mean Water Strategy Rating

Resource Value: 3

Uniqueness: 5

Magnitude of Use: 3

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Threat of elevated fish tissue levels

Location: Tuolumne River Drainage, Tuolumne County

Problem/Need(s) and Source Description: In limited sampling, fish occasionally exceed the NAS mercury guideline. The significance of the discharge from the reservoir to downstream waters is unknown.

	Concern 1	Concern 2	Concern 3
Specific Location:	Entire reservoir		
Type of Pollutants/Parameters:	MERCURY		
Method of Assessment:	Measured		
Water Quality Impaired or Threatened?:	Threatened - 3		
Major Beneficial Use Category Affected:	Aquatic		
Type of Source(s):	MINI		
Areal Extent:	12960e AC		
Programs Affected:	NPS, MONITOR, SPEC-INV		

	Concern 4	Concern 5	Concern 6
Specific Location:			
Type of Pollutants/Parameters:			
Method of Assessment:			
Water Quality Impaired or Threatened?:			
Major Beneficial Use Category Affected:			
Type of Source(s):			
Areal Extent:			
Programs Affected:			

e = areal extent of problem is estimated

Date Last Updated: / /

C-110965

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: CLEAR LAKE

Hydrologic Unit No.: 513.52

Total Areal Extent: 43000 AC

Type of Resource: Lakes and Reservoirs

Clean Water Strategy Rating

Resource Value: 1

Uniqueness: 3

Magnitude of Use: 1

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Elevated fish tissue levels  
Eutrophication  
Recreational and fish impacts

Location: Cache Creek Drainage, Lake County. Entire lake.

Problem/Need(s) and Source Description: Fish routinely exceed mercury FDA/NAS guidelines. A consumer health advisory is in effect. Extremely elevated (exceeding hazardous levels in some areas) mercury sediment levels occur over a 5 square mile area of the lake adjacent to the principle source. Downstream impacts unmeasured, although Cache Creek fish may have elevated mercury levels. Algal blooms impact recreational uses.

	Concern 1	Concern 2	Concern 3
Specific Location:	Entire lake	Entire lake 1	Entire lake 2
Type of Pollutants/Parameters:	MERCURY	MERCURY	PLA
Method of Assessment:	Measured	Measured	Measured
Water Quality Impaired or Threatened?:	Impaired - 1	Impaired - 1	Impaired - 1
Major Beneficial Use Category Affected:	Aquatic	Recreational	Recreational
Type of Source(s):	MINI	MINI	UNKN
Areal Extent:	43000e AC	43000e AC	43000e AC
Programs Affected:	NPS, NPDES, MONITOR, SPEC-INV	NPS, NPDES, MONITOR, SPEC-INV	NPS, MONITOR, SPEC-INV

	Concern 4	Concern 5	Concern 6
Specific Location:	:	:	:
Type of Pollutants/Parameters:	:	:	:
Method of Assessment:	:	:	:
Water Quality Impaired or Threatened?:	:	:	:
Major Beneficial Use Category Affected:	:	:	:
Type of Source(s):	:	:	:
Areal Extent:	:	:	:
Programs Affected:	:	:	:

e = areal extent of problem is estimated

Date Last Updated: / /

C-110966  
C-110966

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: CAMANCHE RES

Hydrologic Unit No.: 531.20

Total Areal Extent: 7700 AC

Type of Resource: Lakes and Reservoirs

Clean Water Strategy Rating

Resource Value: 3

Uniqueness: 5

Magnitude of Use: 3

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Fish Kills  
Fisheries habitat degradation

Location: Mokelumne River Drainage, Calaveras and San Joaquin County

Problem/Need(s) and Source Description: In the past, major fish kills occurred in Camanche reservoir because of uncontrolled releases from Penn Mine. Abatement facilities constructed at the mine in 1977 have improved the situation. However, controlled releases and occasional uncontrolled releases(1983 and 1986) probably still result in impacts in Camanche Reservoir and downstream. At times, reservoir operation impacts downstream beneficial uses by causing elevated levels of metals and hydrogen sulfide and low dissolved oxygen.

	Concern 1	Concern 2	Concern 3
Specific Location:	Entire reservoir	:	:
Type of Pollutants/Parameters:	MET, COPPER, ZINC	:	:
Method of Assessment:	Measured	:	:
Water Quality Impaired or Threatened?:	Threatened - 1	:	:
Major Beneficial Use Category Affected:	Aquatic	:	:
Type of Source(s):	MINI	:	:
Areal Extent:	7700e AC	:	:
Programs Affected:	NPS, MONITOR, SPEC-INV	:	:

	Concern 4	Concern 5	Concern 6
Specific Location:	:	:	:
Type of Pollutants/Parameters:	:	:	:
Method of Assessment:	:	:	:
Water Quality Impaired or Threatened?:	:	:	:
Major Beneficial Use Category Affected:	:	:	:
Type of Source(s):	:	:	:
Areal Extent:	:	:	:
Programs Affected:	:	:	:

e = areal extent of problem is estimated

Date Last Updated: 12/13/90

C-110967

C-110967

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: BERRYESSA LAKE

Hydrologic Unit No.: 512.21

Total Areal Extent: 20700 AC

Type of Resource: Lakes and Reservoirs

Clean Water Strategy Rating

Resource Value: 3

Uniqueness: 5

Magnitude of Use: 3

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Elevated fish tissue levels  
Recreational impacts  
Threat to wildlife

Location: Putah Creek Drainage, Napa County

Problem/Need(s) and Source Description: Fish routinely exceed mercury FDA/NAS guidelines. A consumer health advisory is in effect. There are elevated mercury sediment levels present in arms of the lake with major tributaries. Elevated mercury levels in fish-eating birds has resulted in extensive bird kills. Downstream impacts are unmeasured. Significance of discharge to the Delta is unknown.

	Concern 1	Concern 2	Concern 3
Specific Location:	Entire Lake	Entire lake 1	
Type of Pollutants/Parameters:	MERCURY	MERCURY	
Method of Assessment:	Measured	Measured	
Water Quality Impaired or Threatened?:	Impaired - 1	Impaired - 1	
Major Beneficial Use Category Affected:	Recreational	Aquatic	
Type of Source(s):	MINI	MINI	
Areal Extent:	20700e AC	20700e AC	
Programs Affected:	NPS, MONITOR, SPEC-INV	NPS, MONITOR, SPEC-INV	

	Concern 4	Concern 5	Concern 6
Specific Location:	:	:	:
Type of Pollutants/Parameters:	:	:	:
Method of Assessment:	:	:	:
Water Quality Impaired or Threatened?:	:	:	:
Major Beneficial Use Category Affected:	:	:	:
Type of Source(s):	:	:	:
Areal Extent:	:	:	:
Programs Affected:	:	:	:

e = areal extent of problem is estimated

Date Last Updated: 12/13/90

C-110968  
C-110968  
C-110968

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: YUBA RIVER, LOWER

Hydrologic Unit No.: 515.30

Total Areal Extent: 33 MI

Type of Resource: Rivers and Streams

Clean Water Strategy Rating

Resource Value: 3

Uniqueness: 5

Magnitude of Use: 3

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Elevated fish tissue levels  
Fisheries habitat degradation  
Fisheries habitat degradation

Location: Lower 19 miles tributary to Feather River

Problem/Need(s) and Source Description: In limited sampling, fish occasionally exceed the NAS guideline for mercury. Dam construction has impacted aquatic resources.

	Concern 1	Concern 2	Concern 3
Specific Location:	Lower 19 miles tributary to Feather R		
Type of Pollutants/Parameters:	MERCURY		
Method of Assessment:	Measured		
Water Quality Impaired or Threatened?:	Threatened - 3		
Major Beneficial Use Category Affected:	Aquatic		
Type of Source(s):	MINI		
Areal Extent:	19e MI		
Programs Affected:	NPS, MONITOR, SPEC-INV		

	Concern 4	Concern 5	Concern 6
Specific Location:			
Type of Pollutants/Parameters:			
Method of Assessment:			
Water Quality Impaired or Threatened?:			
Major Beneficial Use Category Affected:			
Type of Source(s):			
Areal Extent:			
Programs Affected:			

e = areal extent of problem is estimated

Date Last Updated: 12/13/90

C-110969  
C-110969

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: TUOLUMNE RIVER (LOWER)

Hydrologic Unit No.: 535.50

Total Areal Extent: 32 MI

Type of Resource: Rivers and Streams

Clean Water Strategy Rating

Resource Value: 4

Uniqueness: 5

Magnitude of Use: 4

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Elevated fish tissue levels  
Toxic bioassay results  
Pesticides

Location: From Turlock Lake to the San Joaquin River

Problem/Need(s) and Source Description: Fish in the lower Tuolumne River routinely exceed NAS guidelines for Toxaphene and Group A pesticides and occasionally for Endosulfan, DDT, and Chlordane. In bioassay tests, the River occasionally tests toxic to the fish species. Dam construction has impacted aquatic resources.

	Concern 1	Concern 2	Concern 3
Specific Location:	Turlock Lake to San Joaquin River	Turlock Lake to San Joaquin River 1	
Type of Pollutants/Parameters:	PES, GROUP A, ENDOSULFAN DDT, CHLORDANE	UTX	
Method of Assessment:	Measured	Measured	
Water Quality Impaired or Threatened?:	Impaired - 3	Threatened - 3	
Major Beneficial Use Category Affected:	Aquatic	Aquatic	
Type of Source(s):	AGRI	UNKN	
Areal Extent:	32e MI	32e MI	
Programs Affected:	NPS, MONITOR, SPEC-INV	NPS, MONITOR, SPEC-INV	

	Concern 4	Concern 5	Concern 6
Specific Location:			
Type of Pollutants/Parameters:			
Method of Assessment:			
Water Quality Impaired or Threatened?:			
Major Beneficial Use Category Affected:			
Type of Source(s):			
Areal Extent:			
Programs Affected:			

e = areal extent of problem is estimated

Date Last Updated: 12/13/90

C-110970

C-110970

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: STANISLAUS RIVER (LOWER)

Hydrologic Unit No.: 535.30

Total Areal Extent: 48 MI

Type of Resource: Rivers and Streams

Clean Water Strategy Rating

Resource Value: 3

Uniqueness: 5

Magnitude of Use: 3

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Elevated fish tissue levels  
Toxic bioassay results  
Pesticides

Location: Lower 48 miles, from Tulloch Reservoir to San Joaquin River.

Problem/Need(s) and Source Description: Fish in the lower Stanislaus River routinely exceed NAS guidelines for toxaphene and Group A pesticides and occasionally exceed NAS guidelines for DDT and Chlordane. In bioassay tests, the river occasionally tests toxic to the fish and invertebrate species. Dam construction has impacted aquatic resources.

	Concern 1	Concern 2	Concern 3
Specific Location:	Tulloch Reservoir to San Joaquin Riv	: Tulloch Reservoir to San Joaquin Riv 1	:
Type of Pollutants/Parameters:	PES, GROUP A, TOXAPHENE DDT, CHLORDANE	: UTX :	:
Method of Assessment:	Measured	: Measured	:
Water Quality Impaired or Threatened?:	Impaired - 3	: Threatened - 3	:
Major Beneficial Use Category Affected:	Aquatic	: Aquatic	:
Type of Source(s):	AGRI	: UNKN	:
Areal Extent:	48e MI	: 48e MI	:
Programs Affected:	NPS, MONITOR, SPEC-INV	: NPS, MONITOR, SPEC-INV	:

	Concern 4	Concern 5	Concern 6
Specific Location:	:	:	:
Type of Pollutants/Parameters:	:	:	:
Method of Assessment:	:	:	:
Water Quality Impaired or Threatened?:	:	:	:
Major Beneficial Use Category Affected:	:	:	:
Type of Source(s):	:	:	:
Areal Extent:	:	:	:
Programs Affected:	:	:	:

e = areal extent of problem is estimated

Date Last Updated: 12/13/90

C-110971

C-110971

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: SPRING CREEK

Hydrologic Unit No.: 524.40

Total Areal Extent: 8 MI

Type of Resource: Rivers and Streams

Clean Water Strategy Rating

Resource Value: 5

Uniqueness: 5

Magnitude of Use: 5

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Fish Kills

Location: Tributary to Keswick Reservoir

Fish population decline

Toxic bioassay results

Problem/Need(s) and Source Description: Metals levels and low pH result in sterile conditions in 5 miles of Spring Creek and cause reductions in fish populations and benthos in Keswick Reservoir and possibly downstream. The Spring Creek discharge is the largest single contributor of copper, zinc, and cadmium, to the Sacramento River Basin, accounting for more than the combined discharges of agriculture, urban runoff and all the NPDES permits.

	Concern 1	Concern 2	Concern 3
Specific Location:	Lower 5 miles		
Type of Pollutants/Parameters:	MET, COPPER, ZINC CADMIUM, ACI		
Method of Assessment:	Measured		
Water Quality Impaired or Threatened?:	Impaired - 1		
Major Beneficial Use Category Affected:	Aquatic		
Type of Source(s):	MINI		
Areal Extent:	5e MI		
Programs Affected:	NPS, MONITOR, SPEC-INV, NPDES		

	Concern 4	Concern 5	Concern 6
Specific Location:			
Type of Pollutants/Parameters:			
Method of Assessment:			
Water Quality Impaired or Threatened?:			
Major Beneficial Use Category Affected:			
Type of Source(s):			
Areal Extent:			
Programs Affected:			

e = areal extent of problem is estimated

Date Last Updated: 12/13/90

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: SAN JOAQUIN RIVER Hydrologic Unit No.: 544.00 Total Areal Extent: 330 MI Type of Resource: Rivers and Streams

Clean Water Strategy Rating Resource Value: Uniqueness: NO Magnitude of Use:

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Fish population decline Location: Mendota Pool to Vernalis
Elevated fish tissue levels
Toxic bioassay results

Problem/Need(s) and Source Description: Selenium and salt periodically exceed water quality objectives. Boron levels may be elevated. Fish exceed NAS guide-
lines for pesticides. In bioassays, large segments of the River periodically test acutely toxic. On numerous occasions, pesticide levels in the River
have been documented at 20-70 times higher than EPA chronic aquatic life criteria. Impacts on the Delta are unmeasured and unknown. Dam construction
has impacted aquatic resources.

Table with 4 columns: Specific Location, Type of Pollutants/Parameters, Method of Assessment, Water Quality Impaired or Threatened?, Major Beneficial Use Category Affected, Type of Source(s), Areal Extent, Programs Affected. Rows correspond to Concern 1, 2, and 3.

Table with 4 columns: Specific Location, Type of Pollutants/Parameters, Method of Assessment, Water Quality Impaired or Threatened?, Major Beneficial Use Category Affected, Type of Source(s), Areal Extent, Programs Affected. Rows correspond to Concern 4, 5, and 6.

e = areal extent of problem is estimated

Date Last Updated: 12/13/90

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: SACRAMENTO RIVER (RED BLUFF TO DELTA)

Hydrologic Unit No.: 500.00

Total Areal Extent: 185 MI

Type of Resource: Rivers and Streams

Clean Water Strategy Rating

Resource Value: 1

Uniqueness: 2

Magnitude of Use: 1

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Drinking water impairment  
Elevated fish tissue levels  
Toxic bioassay results

Location: Red Bluff to Delta

Problem/Need(s) and Source Description: Bioassay results suggest periodic toxicity in the River from Colusa Basin Drain (CBD) discharges. Various pesticides have been confirmed as the toxic agents. The CBD discharge also tested toxic to striped bass and neomysis. Mercury levels in fish are a concern; there is a consumer advisory in effect for the Delta. The City of Sacramento has experienced taste problems in their water supply because of bolero levels.

	Concern 1	Concern 2	Concern 3
Specific Location:	Colusa Basin Drain to Delta	: Colusa Basin Drain to Delta 1	: City of Sacramento Intake
Type of Pollutants/Parameters:	UTX, PES, CARBOFURAN PARATHION, MALATHION	: MERCURY :	: PES, ORDRAM, BOLERO :
Method of Assessment:	Measured	: Measured :	: Measured :
Water Quality Impaired or Threatened?:	Impaired - 2	: Impaired - 3	: Impaired - 4
Major Beneficial Use Category Affected:	Aquatic	: Aquatic :	: Municipal :
Type of Source(s):	AGRI	: MINI	: AGRI
Areal Extent:	30e MI	: 30e MI	: 30e MI
Programs Affected:	NPS, MONITOR, SPEC-INV	: NPS, MONITOR, SPEC-INV	: NPS, MONITOR, SPEC-INV

	Concern 4	Concern 5	Concern 6
Specific Location:	Red Bluff to Colusa Basin Drain	: Red Bluff to Delta	:
Type of Pollutants/Parameters:	UTX	: MET :	:
Method of Assessment:	Measured	: Best Professional Judgement :	:
Water Quality Impaired or Threatened?:	Threatened - 3	: Impaired - 5	:
Major Beneficial Use Category Affected:	Aquatic	: Aquatic :	:
Type of Source(s):	UNKN	: SSEW, MUNI, INDU, MINI	:
Areal Extent:	185e MI	: 215e MI	:
Programs Affected:	NPS, MONITOR, SPEC-INV	: NPDES, MONITOR, SPEC-INV	:

e = areal extent of problem is estimated

Date Last Updated: / /

C-110974  
C-110974

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: SACRAMENTO R.(SHASTA DAM TO RED BLUFF)

Hydrologic Unit No.: 508.10

Total Areal Extent: 72 MI

Type of Resource: Rivers and Streams

Clean Water Strategy Rating

Resource Value: 1

Uniqueness: 2

Magnitude of Use: 1

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Fish Kills

Location: From Shasta Dam to Red Bluff.

Elevated fish tissue levels

Spawning impairment

Problem/Need(s) and Source Description: Heavy metals cause reductions in fish and invertebrate populations. Massive fish kills have occurred in the past. Warm water releases from Shasta Dam have periodically impacted the cold water fishery. Fish in the vicinity of Anderson and Red Bluff have elevated levels of dioxin.

	Concern 1	Concern 2	Concern 3
Specific Location:	Spring Creek to Red Bluff	: Anderson vicinity	: Shasta Dam to Red Bluff
Type of Pollutants/Parameters:	MET, COPPER, ZINC CADMIUM	: DIOXIN	: FLO, TEM
Method of Assessment:	Measured	: Measured	: Measured
Water Quality Impaired or Threatened?:	Impaired - 1	: Impaired - 1	: Impaired - 1
Major Beneficial Use Category Affected:	Aquatic	: Recreational	: Aquatic
Type of Source(s):	MINI	: INDU	: HYDR, DAMC, FLOW
Areal Extent:	62e MI	: 10e MI	: 72e MI
Programs Affected:	NPS, NPDES, MONITOR, SPEC-INV	: NPDES	: NPS, MONITOR, SPEC-INV

	Concern 4	Concern 5	Concern 6
Specific Location:	Shasta Dam to Red Bluff 1	: Shasta Dam to Spring Creek	:
Type of Pollutants/Parameters:	UTX	: MET	:
Method of Assessment:	Measured	: Measured	:
Water Quality Impaired or Threatened?:	Impaired - 3	: Threatened - 3	:
Major Beneficial Use Category Affected:	Aquatic	: Aquatic	:
Type of Source(s):	UNKN	: MINI	:
Areal Extent:	72e MI	: 10e MI	:
Programs Affected:	NPS, MONITOR, SPEC-INV	: NPS, MONITOR, SPEC-INV	:

e = areal extent of problem is estimated

Date Last Updated: / /

C-110975  
C-110975

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: PIT RIVER

Hydrologic Unit No.: 506.00

Total Areal Extent: 200 MI

Type of Resource: Rivers and Streams

Clean Water Strategy Rating

Resource Value: 2

Uniqueness: 5

Magnitude of Use: 3

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Sedimentation  
Eutrophication  
Fisheries habitat degradation

Location: Entire length

Problem/Need(s) and Source Description: Elevated nutrient, sediment and temperature levels, and reduced flows have impacted aquatic resources.

	Concern 1	Concern 2	Concern 3
Specific Location:	Entire length	Entire length 1	
Type of Pollutants/Parameters:	NUT, SED	FLO, TEM	
Method of Assessment:	Measured	Best Professional Judgement	
Water Quality Impaired or Threatened?:	Impaired - 3	Threatened - 3	
Major Beneficial Use Category Affected:	Aquatic	Aquatic	
Type of Source(s):	AGRI	HYDR, AGRI	
Areal Extent:	200e MI	200e MI	
Programs Affected:	NPS, MONITOR, SPEC-INV	NPS, MONITOR, SPEC-INV	

	Concern 4	Concern 5	Concern 6
Specific Location:			
Type of Pollutants/Parameters:			
Method of Assessment:			
Water Quality Impaired or Threatened?:			
Major Beneficial Use Category Affected:			
Type of Source(s):			
Areal Extent:			
Programs Affected:			

e = areal extent of problem is estimated

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: MOKELUMNE RIVER, LOWER

Hydrologic Unit No.: 531.20

Total Areal Extent: 28 MI

Type of Resource: Rivers and Streams

Clean Water Strategy Rating

Resource Value: 4

Uniqueness: 5

Magnitude of Use: 4

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Fish Kills

Location: From Camanche Reservoir to the Delta.

Acid mine drainage, low flows

Elevated metals levels

Problem/Need(s) and Source Description: In the past, major fish kills occurred in the lower river (Camanche Reservoir and downstream) because of uncontrolled releases from Penn Mine. Abatement facilities were constructed at the mine in 1977. However, controlled releases and occasional uncontrolled releases (1983 and 1986) probably still result in downstream impacts. Reservoir operation causes periodic elevated metals and hydrogen sulfide levels and reduced dissolved oxygen.

	Concern 1	Concern 2	Concern 3
Specific Location:	From Camanche Reservoir to Delta	: Downstream from Camanche Reservoir	: Downstream from Camanche Reservoir 1
Type of Pollutants/Parameters:	MET, COPPER, ZINC	: DOX	: H2S, PH
		:	:
Method of Assessment:	Measured	: Measured	: Measured
		:	:
Water Quality Impaired or Threatened?:	Impaired - 1	: Impaired - 1	: Impaired - 1
Major Beneficial Use Category Affected:	Aquatic	: Aquatic	: Aquatic
		:	:
Type of Source(s):	MINI	: FLO	: FLO
Areal Extent:	28e MI	: 1e MI	: 1e MI
Programs Affected:	NPS, MONITOR, SPEC-INV, NPDES	: NPS, MONITOR, SPEC-INV	: NPS, MONITOR, SPEC-INV

	Concern 4	Concern 5	Concern 6
Specific Location:	:	:	:
Type of Pollutants/Parameters:	:	:	:
	:	:	:
Method of Assessment:	:	:	:
	:	:	:
Water Quality Impaired or Threatened?:	:	:	:
Major Beneficial Use Category Affected:	:	:	:
	:	:	:
Type of Source(s):	:	:	:
Areal Extent:	:	:	:
Programs Affected:	:	:	:

e = areal extent of problem is estimated

Date Last Updated: 12/13/90

C-110977

C-110977

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: MERCED RIVER, LOWER

Hydrologic Unit No.: 535.00

Total Areal Extent: 90 MI

Type of Resource: Rivers and Streams

Clean Water Strategy Rating

Resource Value: 4

Uniqueness: 5

Magnitude of Use: 4

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Elevated fish tissue levels  
Toxic bioassay results  
Pesticides

Location: Lake McClure to the San Joaquin River

Problem/Need(s) and Source Description: Fish in the lower Merced River routinely exceed NAS guidelines for toxaphene and Group A pesticides and occasionally exceed NAS guidelines for Endosulfan and DDT. In bioassay tests, the river occasionally tests toxic to the fish and invertebrate species. Dam construction has impacted aquatic resources.

	Concern 1	Concern 2	Concern 3
Specific Location:	McSwain Reservoir to San Joaquin Riv	McSwain Reservoir to San Joaquin Rivl	
Type of Pollutants/Parameters:	PES, GROUP A, TOXAPHENE DDT, ENDOSULFAN	UTX	
Method of Assessment:	Measured	Measured	
Water Quality Impaired or Threatened?:	Impaired - 3	Threatened - 3	
Major Beneficial Use Category Affected:	Aquatic	Aquatic	
Type of Source(s):	AGRI	UNKN	
Areal Extent:	60e MI	60e MI	
Programs Affected:	NPS, MONITOR, SPEC-INV	NPS, MONITOR, SPEC-INV	

	Concern 4	Concern 5	Concern 6
Specific Location:			
Type of Pollutants/Parameters:			
Method of Assessment:			
Water Quality Impaired or Threatened?:			
Major Beneficial Use Category Affected:			
Type of Source(s):			
Areal Extent:			
Programs Affected:			

e = areal extent of problem is estimated

Date Last Updated: 12/12/90

C-110978  
C-110978

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: MCCLOUD RIVER

Hydrologic Unit No.: 505.24

Total Areal Extent: 60 MI

Type of Resource: Rivers and Streams

Clean Water Strategy Rating

Resource Value: 3

Uniqueness: 1

Magnitude of Use: 4

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Sedimentation

Location: Tributary to Lake Shasta

Problem/Need(s) and Source Description: Periodic turbidity results in depressed aquatic resources and visual nuisance.

	Concern 1	Concern 2	Concern 3
Specific Location:	Mud Creek to Lake Shasta		
Type of Pollutants/Parameters:	SED		
Method of Assessment:	Measured		
Water Quality Impaired or Threatened?:	Threatened - 3		
Major Beneficial Use Category Affected:	Aquatic		
Type of Source(s):	NATU		
Areal Extent:	1e MI		
Programs Affected:	NPS, MONITOR, SPEC-INV		

	Concern 4	Concern 5	Concern 6
Specific Location:			
Type of Pollutants/Parameters:			
Method of Assessment:			
Water Quality Impaired or Threatened?:			
Major Beneficial Use Category Affected:			
Type of Source(s):			
Areal Extent:			
Programs Affected:			

e = areal extent of problem is estimated

Date Last Updated: 12/13/90

C-110979

C-110979

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: LITTLE GRIZZLY CREEK

Hydrologic Unit No.: 518.54

Total Areal Extent: 10 MI

Type of Resource: Rivers and Streams

Clean Water Strategy Rating

Resource Value: 5

Uniqueness: 5

Magnitude of Use: 5

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Fish population decline  
Mine drainage

Location: Tributary to Indian Creek and NF Feather River

Problem/Need(s) and Source Description: Metals levels result in near sterile conditions in 10 miles of the creek. Impacts to downstream water bodies including the Feather River and the Delta are unknown.

	Concern 1	Concern 2	Concern 3
Specific Location:	10 miles downstream from Walker Mine		
Type of Pollutants/Parameters:	MET, COPPER, ZINC		
Method of Assessment:	Measured		
Water Quality Impaired or Threatened?:	Impaired - 1		
Major Beneficial Use Category Affected:	Aquatic		
Type of Source(s):	MINI		
Areal Extent:	10e MI		
Programs Affected:	NPS, MONITOR, SPEC-INV		

	Concern 4	Concern 5	Concern 6
Specific Location:			
Type of Pollutants/Parameters:			
Method of Assessment:			
Water Quality Impaired or Threatened?:			
Major Beneficial Use Category Affected:			
Type of Source(s):			
Areal Extent:			
Programs Affected:			

e = areal extent of problem is estimated

Date Last Updated: 12/13/90

C-110980  
C-110980

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: LITTLE BACKBONE CREEK

Hydrologic Unit No.: 506.20

Total Areal Extent: 3 MI

Type of Resource: Rivers and Streams

Clean Water Strategy Rating

Resource Value: 5

Uniqueness: 5

Magnitude of Use: 5

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Fish Kills

Location: Tributary to Lake Shasta

Fish population decline objectives violated

Problem/Need(s) and Source Description: Metals and low pH result in near sterile conditions in creek and cause fish kills where the creek empties into Lake Shasta. Significance of the discharge below Shasta Dam and in the Delta is unknown.

	Concern 1	Concern 2	Concern 3
Specific Location:	Lower 1 mile		
Type of Pollutants/Parameters:	MET, COPPER, ZINC ACI, CADMIUM		
Method of Assessment:	Measured		
Water Quality Impaired or Threatened?:	Impaired - 1		
Major Beneficial Use Category Affected:	Aquatic		
Type of Source(s):	MINI		
Areal Extent:	1e MI		
Programs Affected:	NPS, MONITOR, SPEC-INV		

	Concern 4	Concern 5	Concern 6
Specific Location:			
Type of Pollutants/Parameters:			
Method of Assessment:			
Water Quality Impaired or Threatened?:			
Major Beneficial Use Category Affected:			
Type of Source(s):			
Areal Extent:			
Programs Affected:			

e = areal extent of problem is estimated

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: KINGS RIVER (LOWER)

Hydrologic Unit No.: 551.90

Total Areal Extent: 95 MI

Type of Resource: Rivers and Streams

Clean Water Strategy Rating

Resource Value: 4

Uniqueness: 5

Magnitude of Use: 4

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: objectives violated
Elevated fish tissue levels

Location: Lower 30 miles. Tributary to Tulare Basin

Problem/Need(s) and Source Description: The lower 30 miles of this river contain EC and pH levels higher than Basin Plan objectives. Molybdenum levels exceed Ag Water Quality Criteria. Elevated boron, chloride, and sulfate levels in water. Elevated levels of copper, arsenic, and toxaphene in fish tissue.

Table with 3 columns: Concern 1, Concern 2, Concern 3. Rows include Specific Location, Type of Pollutants/Parameters, Method of Assessment, Water Quality Impaired or Threatened?, Major Beneficial Use Category Affected, Type of Source(s), Areal Extent, and Programs Affected.

Table with 3 columns: Concern 4, Concern 5, Concern 6. Rows include Specific Location, Type of Pollutants/Parameters, Method of Assessment, Water Quality Impaired or Threatened?, Major Beneficial Use Category Affected, Type of Source(s), Areal Extent, and Programs Affected.

e = areal extent of problem is estimated

Date Last Updated: 12/13/90

C-110982 (vertical) and C-110982 (vertical)

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: FEATHER RIVER, M FK

Hydrologic Unit No.: 518.30

Total Areal Extent: 113 MI

Type of Resource: Rivers and Streams

Clean Water Strategy Rating

Resource Value: 1

Uniqueness: 4

Magnitude of Use: 2

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Recreational impacts  
Fisheries habitat degradation  
Sedimentation

Location: Tributary to Lake Oroville

Problem/Need(s) and Source Description: Fecal coliform levels impair water contact recreation. Elevated sediment levels impact aquatic resources.

	Concern 1	Concern 2	Concern 3
Specific Location:	Sierra Valley and downstream 30 miles		
Type of Pollutants/Parameters:	COL, SED		
Method of Assessment:	Measured		
Water Quality Impaired or Threatened?:	Impaired - 3		
Major Beneficial Use Category Affected:	Aquatic		
Type of Source(s):	AGRI		
Areal Extent:	30e MI		
Programs Affected:	NPS, MONITOR, SPEC-INV		

	Concern 4	Concern 5	Concern 6
Specific Location:			
Type of Pollutants/Parameters:			
Method of Assessment:			
Water Quality Impaired or Threatened?:			
Major Beneficial Use Category Affected:			
Type of Source(s):			
Areal Extent:			
Programs Affected:			

e = areal extent of problem is estimated

Date Last Updated: 12/13/90

C-110983

WATER BODY FACT SHEET

Region: 5

Water Body Name: FEATHER RIVER, LOWER

Hydrologic Unit No.: 519.22

Total Areal Extent: 60 MI

Type of Resource: Rivers and Streams

Clean Water Strategy Rating

Resource Value: 1

Uniqueness: 4

Magnitude of Use: 2

Type of Problem/Need: Elevated fish tissue levels  
Toxic bioassay results

Location: Oroville Dam to confluence with Sacramento River

Problem/Need(s) and Source Description: Fish routinely exceed NAS guidelines for mercury, Group A pesticides, and toxaphene. Bioassay results suggest periodic toxicity. Dam construction has impacted aquatic resources.

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Specific Location:	Type of Pollutants/Parameters:	Method of Assessment:	Water Quality Impaired or Threatened?	Major Beneficial Use Category Affected:	Type of Source(s):	Areal Extent:	Programs Affected:
Concern 1 Oroville Dam to Sacramento River	MERCURY	Measured	Impaired - 3	Aquatic	MINI	60e MI	NPS, MONITOR, SPEC-INV
Concern 2 Oroville Dam to Sacramento River 1	UTX	Measured	Impaired - 3	Aquatic	UNKN	60e MI	NPS, MONITOR, SPEC-INV
Concern 3 Oroville Dam to Sacramento River 2	PES, GROUP A, TOXAPHENE	Measured	Impaired - 3	Aquatic	AGRI	60e MI	NPS, MONITOR, SPEC-INV
Concern 4 Oroville Dam to Sacramento River							
Concern 5 Oroville Dam to Sacramento River							
Concern 6 Oroville Dam to Sacramento River							

Date Last Updated: 12/12/90

e = areal extent of problem is estimated

C-110984

C-110984

WATER BODY FACT SHEET

Region: 5

Water Body Name: FALL RIVER (P11)

Hydrologic Unit No.: 526.40

Total Areal Extent: 25 MI

Type of Resource: Rivers and Streams

Clean Water Strategy Rating

Resource Value: 4

Uniqueness: 4

Magnitude of Use: 3

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Location: Tributary to Pitt River

Type of Problem/Need: Sedimentation

Eutrophication

Excessive plant growth

Problem/Need(s) and Source Description: Elevated sediment and nutrient levels impact aquatic resources. Elevated bacteria levels impact municipal water supplies.

Specific Location:	Type of Pollutants/Parameters:	Method of Assessment:	Water Quality Impaired or Threatened?	Major Beneficial Use Category Affected:	Type of Source(s):	Areal Extent:	Programs Affected:
Concern 1 Entire River	SED	Best Professional Judgement	Impaired - 3	Aquatic	AGRI	25e MI	NPS, MONITOR, SPEC-INV
Concern 2 Entire River 1	NUT	Best Professional Judgement	Impaired - 3	Aquatic	AGRI, SEPT	25e MI	NPS, MONITOR, SPEC-INV
Concern 3 Entire River 2	COL	Measured	Impaired - 3	Municipal	AGRI, SEPT	25e MI	NPS, MONITOR, SPEC-INV
Concern 4 Concern 4							
Concern 5 Concern 5							
Concern 6 Concern 6							

e = areal extent of problem is estimated

Date last Updated: 12/13/90

Date: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: COLUSA DRAIN

Hydrologic Unit No.: 520.21

Total Areal Extent: 70 MI

Type of Resource: Rivers and Streams

Clean Water Strategy Rating

Resource Value:

Uniqueness:

Magnitude of Use:

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Elevated fish tissue levels  
Toxic bioassay results  
Pesticides/herbicides

Location: Tributary to Sacramento River near Knights Landing

Problem/Need(s) and Source Description: Fish routinely exceed Group A pesticide criteria. Bioassay results and water column monitoring confirmed the presence of pesticides in the Drain and Sacramento River at levels that suggest significant impairments to aquatic resources. Toxic impacts probably extend into the Delta. Drain waters have tested acutely toxic to striped bass and neomysis. The Drain also carries high sediment loads.

	Concern 1	Concern 2	Concern 3
Specific Location:	Entire drain	: Entire drain 1	:
Type of Pollutants/Parameters:	PES, UTX	: SED	:
		:	:
Method of Assessment:	Measured	: Best Professional Judgement	:
		:	:
Water Quality Impaired or Threatened?:	Impaired - 1	: Threatened - 3	:
Major Beneficial Use Category Affected:	Aquatic	: Aquatic	:
		:	:
Type of Source(s):	AGRI	: NATU	:
Areal Extent:	70e MI	: 70e MI	:
Programs Affected:	NPS, MONITOR, SPEC-INV	: NPS, MONITOR, SPEC-INV	:

	Concern 4	Concern 5	Concern 6
Specific Location:	:	:	:
Type of Pollutants/Parameters:	:	:	:
	:	:	:
Method of Assessment:	:	:	:
	:	:	:
Water Quality Impaired or Threatened?:	:	:	:
Major Beneficial Use Category Affected:	:	:	:
	:	:	:
Type of Source(s):	:	:	:
Areal Extent:	:	:	:
Programs Affected:	:	:	:

e = areal extent of problem is estimated

Date Last Updated: 12/13/90

C-110986  
C-110986

ate: 08/13/92

WATER BODY FACT SHEET

Region: 5

Water Body Name: AMERICAN RIVER, LOWER

Hydrologic Unit No.: 519.21

Total Areal Extent: 30 MI

Type of Resource: Rivers and Streams

Clean Water Strategy Rating

Resource Value: 1

Uniqueness: 1

Magnitude of Use: 1

SUMMARY OF PROBLEM(S) OR CONCERN(S)

Type of Problem/Need: Toxic bioassay results  
Threat of elevated fish tissue levels  
Elevated mercury levels

Location: Nimbus Dam to Sacramento River

Problem/Need(s) and Source Description: Fish occasionally exceed mercury NAS guideline and consistently approach the chlordane NAS guideline. Fish exceed the NAS criteria for Group A pesticides. Bioassay results have shown acute toxicity in the River following discharges of urban stormwater runoff. Periodic chronic toxicity was observed at other times. Discharge significance to the Sacramento River and Delta is unknown. Dam construction has impacted aquatic resources.

	Concern 1	Concern 2	Concern 3
Specific Location:	Nimbus Dam to Sacramento River	: Nimbus Dam to Sacramento River 1	: Nimbus Dam to Sacramento River 2
Type of Pollutants/Parameters:	MERCURY	: GROUP A	: UTX
		:	:
Method of Assessment:	Measured	: Measured	: Measured
		:	:
Water Quality Impaired or Threatened?:	Impaired - 2	: Impaired - 3	: Impaired - 3
Major Beneficial Use Category Affected:	Aquatic	: Aquatic	: Aquatic
		:	:
Type of Source(s):	MINI	: URBA	: URBA
Areal Extent:	23 MI	: 23 MI	: 23 MI
Programs Affected:	NPS, MONITOR, SPEC-INV	: NPS, MONITOR, SPEC-INV	: NPS, MONITOR, SPEC-INV

	Concern 4	Concern 5	Concern 6
Specific Location:	:	:	:
Type of Pollutants/Parameters:	:	:	:
	:	:	:
Method of Assessment:	:	:	:
	:	:	:
Water Quality Impaired or Threatened?:	:	:	:
Major Beneficial Use Category Affected:	:	:	:
	:	:	:
Type of Source(s):	:	:	:
Areal Extent:	:	:	:
Programs Affected:	:	:	:

e = areal extent of problem is estimated

Date Last Updated: 12/12/90

C-110987

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Region 9

Rivers and Streams

Water Body Name	Hydro Unit #	Water Quality Condition				Total Size	Units	Fact Sheet	Problem/Need Description	Problem Source	Federal Lists
		Good	Inter-mediate	Impaired	Unknown						1 D M S L
AGUA HEDIONDA CREEK	904.30	0	9	0	0	9	MI				1 3 3 3 3 3 3 1 0 0 0 1 1 . 3 4 4 4 4 9 1
ALISO CREEK	901.10	0	0	1	19	20	MI	Yes	Recreational impacts Objectives violated Bacterial contamination	Unknown	. X . . X . X
ARROYO TRABUCO	901.20	0	0	1	0	1	MI	Yes	Heavy metals	Unknown	. X . . X . X
BOULDER CREEK	907.41	11	0	0	0	11	MI				. . . . .
BUENA VISTA CREEK	904.20	0	8	0	0	8	MI				. . . . .
CANUILLA CREEK	902.71	0	0	0	17	17	MI				. . . . .
CAMPO CREEK	911.80	0	0	0	19	19	MI				. . . . .
CANYON DE LAS ENCINAS	904.40	0	0	0	4	4	MI				. . . . .
CHOLLAS CREEK	908.22	0	0	0	6	6	MI				. . . . .
COTTONWOOD CREEK, LOWER	911.20	0	0	0	14	14	MI				. . . . .
COTTONWOOD CREEK, UPPER	911.60	12	0	0	0	12	MI				. . . . .
DELUZ CREEK	902.21	14	0	0	0	14	MI				. . . . .
ESCONDIDO CREEK	904.60	0	23	0	0	23	MI				. . . . .



C-110988

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STATE WATER RESOURCES CONTROL BOARD 1992 WATER QUALITY ASSESSMENT

Report Date : 06/09/92

Region 9

Rivers and Streams

Federal Lists  
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 1 D M S L

Water Body Name	Hydro Unit #	Water Quality Condition				Total Size	Units	Fact Sheet	Problem/Need Description	Problem Source	Federal Lists					
		Good	Inter-mediate	Impaired	Unknown						1	D	M	S	L	
FORESTER CREEK	907.13	0	3	0	0	3	MI	Yes	Threat of elevated fish tissue levels Threat of impacts from industry	X	.	.	.	.	.	.
GUEJITO CREEK	905.32	10	0	0	0	10	MI			.	.	.	.	.	.	.
LA POSTA CREEK	911.70	18	0	0	0	18	MI			.	.	.	.	.	.	.
LOMA ALTA CREEK	904.10	0	0	0	6	6	MI			.	.	.	.	.	.	.
LOS COCHES CREEK	907.14	0	0	0	9	9	MI			.	.	.	.	.	.	.
LOS PENASQUITOS CREEK, LOWER	906.10	0	8	0	0	8	MI			.	.	.	.	.	.	.
LOS PENASQUITOS CREEK, UPPER	906.20	9	0	0	0	9	MI			.	.	.	.	.	.	.
MURRIETA CREEK	902.30	13	0	0	0	13	MI			.	.	.	.	.	.	.
OTAY RIVER, LOWER	910.20	0	5	0	0	5	MI			X	.	.	.	.	.	.
PARADISE CREEK	908.32	0	0	0	4	4	MI			.	.	.	.	.	.	.
PINE VALLEY CREEK	911.40	10	0	0	0	10	MI			.	.	.	.	.	.	.
ROSE CANYON	906.30	0	13	0	0	13	MI			.	.	.	.	.	.	.
SAN CLEMENTE CANYON	906.40	0	0	0	13	13	MI			.	.	.	.	.	.	.
SAN DIEGO RIVER, LOWER	907.11	0	13	0	0	13	MI			X	.	.	.	.	.	.

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STATE WATER RESOURCES CONTROL BOARD 1992 WATER QUALITY ASSESSMENT

Report Date : 06/09/92

Region 9

Rivers and Streams

Water Body Name	Hydro Unit #	Water Quality Condition				Total Size	Units	Fact Sheet	Problem/Need Description	Problem Source	Federal Lists
		Good	Inter-mediate	Impaired	Unknown						1 3 3 3 3 3 3 1 0 0 0 1 1 . 3 4 4 4 4 9 1 1 D M S L
SAN DIEGO RIVER, MIDDLE	907.15	0	30	0	0	30	MI				.....
SAN DIEGUITO RIVER, LOWER	905.10	0	11	0	0	11	MI				.....
SAN JUAN CREEK	901.20	0	8	1	0	9	MI	Yes	Recreational impacts Objectives violated periodic beach closures	Unknown	. X . . X . X
SAN LUIS REY RIVER, LOWER	903.10	0	21	0	0	21	MI		The recreational uses at the river's mouth is occasionally threatened.	Non-Point	.....
SAN LUIS REY RIVER, MIDDLE	903.20	0	30	0	0	30	MI				.....
SAN MARCOS CREEK	904.50	0	0	0	13	13	MI				.....
SAN MATEO CREEK	901.40	0	0	0	17	17	MI				.....
SAN ONOFRE CREEK	901.51	0	0	0	13	13	MI				.....
SANTA MARGARITA RIVER	902.10	11	0	0	0	11	MI	Yes			.....
SANTA MARIA CREEK	905.41	6	0	0	0	6	MI				.....
SANTA YSABEL CREEK	905.50	24	0	0	0	24	MI				.....
SECUNDA DESHECHA CANADA	901.30	0	0	0	6	6	MI				.....



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STATE WATER RESOURCES CONTROL BOARD 1992 WATER QUALITY ASSESSMENT

Report Date : 06/09/92

Region 9

Rivers and Streams

Federal Lists  
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 1 D M S L

Water Body Name	Hydro Unit #	Water Quality Condition				Total Size	Units	Fact Sheet	Problem/Need Description	Problem Source	
		Good	Inter-mediate	Impaired	Unknown						
SWEETWATER RIVER, LOWER	909.10	11	0	0	0	11	MI				.....
SYCAMORE CREEK	907.12	0	0	0	8	8	MI				.....
TECOLOTE CREEK	906.50	0	6	0	0	6	MI				.....
TEMECULA CREEK, LOWER	902.51	10	0	0	0	10	MI				.....
TEMECULA CREEK, UPPER	902.91	9	0	0	0	9	MI				.....
TIJUANA RIVER	911.11	0	0	7	0	7	MI	Yes	untreated domestic and industrial wastewater from city of Tijuana. Severe health problem exists. extensive rec impacts.	Point & Non-Point	X X . . X . X
TUCALOTA CREEK	902.41	0	0	0	26	26	MI				.....
WILSON CREEK	902.61	0	0	0	16	16	MI				.....