Lower Cache Creek Water Quality Monitoring

Mean Daily Flow (cfs) at Yolo: 21.8
Mean Daily Flow (cfs) at Rumsey: BRT

August 17, 2005		Capay Bridge	Gordon Slough	Upstream of Gordon Slough	Upstream of I-5 Bridge	Water Quality Objectives	
ANALYTE	**UNITS**	**Results**	**Results**	**Results**	**Results**	**Value**	**Source**
Field Tests							
Dissolved Oxygen	mg/L as O	(1)	(1)	(1)	(1)	>7.0	b
pH, measured on site	pH Units	7.9	7.8	8.0	**5.3**	6.5-8.5	b
Temperature (standard)	°F	**73.8**	**75.0**	**77.5**	**77.2**	<59	b
Color/Odor							
Color	CU	<3	<3	<3	<3	<15	a
Odor	TON	<1	<1	<1	<1	<3	a
Sediment							
Total Dissolved Solids (TDS)	mg/L	252	440	238	358	<1,000	a
Total Suspended Solids (TSS)	mg/L	14.0	10.0	146.0	9.0	Desc.	b
Turbidity	NTU	1.8	1.1	5.2	2.9	Varies	b
Nutrients							
Ammonia Nitrogen (NH3-N)	mg/L as N	<0.3	<0.3	<0.3	<0.3	Varies	c
Nitrate Nitrogen (NO3-N)	mg/L as N	0.2	7.0	0.8	5.3	<10	a
Nitrite Nitrogen (NO3-N)	mg/L as N	<0.5	<0.5	0.3	<0.5	<1	a
Orthophosphate Phosphorus (PO4-P)	mg/L as P	<1.0	<1.0	<1.0	<1.0	N/A	N/A
Total Kjeldahl Nitrogen (TKN)	mg/L as N	1.1	0.9	0.8	1.2	N/A	N/A
Petroleum							
TPH as Diesel	ug/L	<50.0	<50.0	<50.0	**124.0**	<100	c
TPH as Gasoline	ug/L	<50.0	<50.0	<50.0	<50.0	<5	c
Metals							
Boron, Total	mg/L	**1,090**	**1,180**	**2,220**	**1,930**	<600	c
Mercury, Dissolved	ug/L	<0.250	<0.250	<0.250	<0.250	N/A	N/A
Mercury, Total	ug/L	<0.250	<0.250	<0.250	<0.250	<0.05	c
Organophosphate Pesticides							
Azinophos Methyl	ug/L	<1.5	<1.5	<1.5	<1.5	Desc.	b
Bolstar	ug/L	<0.15	<0.15	<0.15	<0.15	Desc.	b
Coumaphos	ug/L	<1.5	<1.5	<1.5	<1.5	Desc.	b
Demeton	ug/L	<0.25	<0.25	<0.25	<0.25	Desc.	b
Dichlorvos	ug/L	<0.1	<0.1	<0.1	<0.1	Desc.	b
Dinoseb (DNBP)	ug/L	<0.4	<0.4	<0.4	<0.4	<7	a
Disulfoton	ug/L	<0.2	<0.2	<0.2	<0.2	Desc.	b
Dursban (Chloropyrifos)	ug/L	<0.1	<0.1	<0.1	<0.1	Desc.	b
Ethoprop	ug/L	<0.25	<0.25	<0.25	<0.25	Desc.	b
Fensulfothion	ug/L	<2.5	<2.5	<2.5	<2.5	Desc.	b
Fenthion	ug/L	<0.1	<0.1	<0.1	<0.1	Desc.	b
Gardona (Stirophos)	ug/L	<0.5	<0.5	<0.5	<0.5	Desc.	b

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Organophosphate Pesticides							
Glyphosate	ug/L	<25	<25	<25	<25	Desc.	b
Malathion	ug/L	<0.1	<0.1	<0.1	<0.1	Desc.	b
Merphos	ug/L	<0.25	<0.25	<0.25	<0.25	Desc.	b
Methyl Parathion	ug/L	<0.1	<0.1	<0.1	<0.1	Desc.	b
Mevinphos	ug/l	<0.3	<0.3	<0.3	<0.3	Desc.	b
Naled	ug/L	<0.1	<0.1	<0.1	<0.1	Desc.	b
Phorate	mg/L	<0.15	<0.15	<0.15	<0.15	Desc.	b
Ronnel	ug/L	<0.3	<0.3	<0.3	<0.3	Desc.	b
Tokuthion	ug/L	<0.5	<0.5	<0.5	<0.5	Desc.	b
Trichloronate	ug/L	<0.15	<0.15	<0.15	<0.15	Desc.	b
Organochlorine Herbacides							
2,4,5-T	ug/L	<0.8	<0.8	<0.8	<0.8	Desc.	b
2,4,5-TP (Silvex)	ug/L	<0.4	<0.4	<0.4	<0.4	<50	a
2,4-D	ug/L	<1.6	<1.6	<1.6	<1.6	<70	a
2,4-DB	ug/L	<4	<4	<4	<4	Desc.	b
Diazanon	ug/L	<0.1	<0.1	<0.1	<0.1	Desc.	b
Dichloroprop	ug/L	<4	<4	<4	<4	Desc.	b
Bacteria							
Fecal Coliform	MPN/100mL	50	23	**800**	110	<200	b
Total Coliform	MPN/100mL	500	170	13,000	500	N/A	N/A

Notes:

BRT = Below Rating Table
ART = Above Rating Table
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.
R/L = Reporting Limit
mg/L = milligrams (10e-3 g) per liter or part per million (ppm)
ug/L = micrograms (10e-6 g) per liter or part per billion (ppb)
Desc. = Descriptive objective based upon impairments to the water body.
Varies = Water quality objective varies based upon other factor(s). See Source for details.
N/A = Not Applicable. Values and/or Sources are not applicable. May be updated in the future.
* The sample chromatogram does not match the standard diesel chromatogram.
Bold results indicate water quality objectives were not met.
Temperature Conversion Equation: °C = (°F -32) x (5/9)

Water Quality Objective Source:

Water Quality Objective Sources:
(a) California Department of Health Services, Drinking Water Standards
(b) Central Valley Regional Water Quality Control Board, Water Quality Control Plan (Basin Plan) (1998)
(c) Central Valley Regional Water Quality Control Board, A Compilation of Water Quality Goals (August 2003)

Comments:

(1) Post monitoring QC check exceeded 10% variance. Values are not acceptable.