

From: Craig J. Wilson [cjwilson@waterboards.ca.gov]
Sent: Tuesday, October 24, 2006 8:03 AM
To: Everitt, Sara
Cc: Frantz, Elizabeth; Jones, Kathleen (Law); Jereb, Thomas
Subject: Re: 303(d) listing for Copper
Sara,

I now understand your point of view and I can verify your comments. Please call me so we may discuss.

CJWilson
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>>> "Everitt, Sara" <SWE1@pge.com> Monday, October 23, 2006 >>>

Craig,

Attached you will find all analytical data for dissolved copper and hardness collected on the Lower Bear River Reservoir, the Mokelumne River and Sugar Pine Creek from 2001 to 2005. The more recent data was provided to another section of the State Water Resources Control Board. It was sent to Russ Kanz of the State Water Resources Control Board Division of Water Rights in January 2006.

The first worksheet shows all the data, followed by the worksheet that contains data that PG&E feels meets the listing policy and the last worksheet shows the data that we feel does not meet the listing policy.

The worksheet labeled "Data Does Not Meet Policy" does not meet the criteria of section 6.1.5.5 of the policy. The sample data listed on the worksheet is less than the quantitation limit (Reporting Limit) and the quantitation limit is greater than the water quality standard (CTR). Additionally much of the data is flagged as an estimate. The section 6.1.5.5 of the listing policy specifically states that "When the sample value is less than the quantitation limit and the quantitation limit is greater than the water quality standard, objective, criterion or evaluation guideline, the results shall not be used in the analysis."

The data on the worksheet labeled "Data Meets Policy" clearly shows that the Lower Bear River Reservoir, and the Mokelumne River should not be listed for dissolved copper. None of the data that meets the listing policy section 6.1.5.5 exceeds the listing criteria (CTR). There is no data that meets the listing policy for Sugar Pine Creek.

The actual laboratory reports are too large to email but we will provide you a CD with all the reports on Wednesday October 25, 2006.

Thanks you for you consideration.

Regards,
Sara Everitt
PG&E
415 973 0707

<<Mokelumne WQ Data for 303d list response 102306.xls>>

Mokelumne FERC 137 Project Data
ALL DATA

Station	Sampling Date	Total Hardness	Total Copper	J	Dissolved Copper	J	Dissolved Copper Quantitation Limit (Reporting Limit),	Hardness based criteria for CTR and USEPA	
		(mg/L)	(ug/L)	Flag	(ug/L)	Flag	ug/L	CCC	CMC
ALL DATA									
This table represents all data collected over the period 2001-2005 for dissolved copper analysis on the Lower Bear River Reservoir, North Fork Mokelumne River, and Sugar Pine Creek. The subsequent worksheets breakdown the data into data that meets the policy and data that does not meet the policy.									
Lower Bear River Reservoir									
LBRR1-top									
Lower Bear River	4/23/2002	4.0	---		0.31	J	5.0	0.57	0.65
	5/16/2002	5.0	---		0.77	J	5.0	0.69	0.80
Reservoir - surface sample	6/19/2002	3.6	---		<0.3		5.0	0.52	0.59
	7/17/2002	3.6	---		<0.3		5.0	0.52	0.59
near dam	8/28/2002	3.9	---		3.7	J	5.0	0.56	0.63
	9/25/2002	3.8	---		<0.3		5.0	0.55	0.62
	10/23/2002	3.7	---		1.0	J	5.0	0.54	0.60
	12/11/2002	11.0	---		1.2	J	5.0	1.36	1.68
	5/5/2003	4.4	---		0.09		0.03	0.62	0.71
	6/3/2003	4.0	---		0.12		0.03	0.57	0.65
	7/10/2003	3.8	---		0.11		0.03	0.55	0.62
	8/21/2003	6.3	---		0.10		0.03	0.84	0.99
	9/9/2003	4.8	---		0.13		0.03	0.67	0.77
LBRR1-middle									
Lower Bear River	5/16/2002	4.0	---		0.9	J	5.0	0.57	0.65
	6/19/2002	3.7	---		<0.3		5.0	0.54	0.60
Reservoir - mid-depth	7/17/2002	5.4	---		<0.3		5.0	0.74	0.86
sample near dam	8/28/2002	3.9	---		19 [°]		5.0	0.56	0.63
	9/25/2002	3.7	---		0.91	J	5.0	0.54	0.60
	10/23/2002	3.4	---		1.2	J	5.0	0.50	0.56
	7/10/2003	3.8	---		0.19		0.03	0.55	0.62
	8/21/2003	7.4	---		0.13		0.03	0.97	1.16
	9/9/2003	4.8	---		0.29		0.03	0.67	0.77
LBRR1-bottom									
Lower Bear River	4/23/2002	4.7	---		0.68	J	5.0	0.66	0.75
	5/16/2002	4.0	---		1.2	J	5.0	0.57	0.65
Reservoir - bottom sample	6/19/2002	3.8	---		<0.3		5.0	0.55	0.62
near dam	7/17/2002	4.8	---		1.3	J	5.0	0.67	0.77
	8/28/2002	4.0	---		1.6	J	5.0	0.57	0.65
	9/25/2002	3.7	---		<0.3		5.0	0.54	0.60
	10/23/2002	3.7	---		1.0	J	5.0	0.54	0.60
	12/11/2002	11.0	---		1.1	J	5.0	1.36	1.68
	5/5/2003	4.2	---		0.15		0.03	0.60	0.68
	6/3/2003	4.0	---		0.15		0.03	0.57	0.65
	7/10/2003	3.8	---		0.38		0.03	0.55	0.62
	8/21/2003	8.4	---		0.13		0.03	1.08	1.30
	9/9/2003	4.6	---		0.19		0.03	0.64	0.74

Mokelumne FERC 137 Project Data
ALL DATA

Station	Sampling Date	Total Hardness (mg/L)	Total Copper (ug/L)	J Flag	Dissolved Copper (ug/L)	J Flag	Dissolved Copper Quantitation Limit (Reporting Limit), ug/L	Hardness based criteria for CTR and USEPA	
								CCC	CMC
Mokelumne River, North Fork									
NFMR2	3/14/01	10	1	J	<1.0		5.0	1.23	1.51
	5/31/01	6	1.4	J	2.5	J	5.0	0.80	0.93
North Fork	6/19/01	12	<1.0		<1.0		5.0	1.46	1.82
Mokelumne	7/23/01	16	<1.0		<1.0		5.0	1.87	2.39
River, below	8/13/01	12	<1.0		<1.0		5.0	1.44	1.79
Salt Springs	9/26/01	12	2.7	J	<1.0		5.0	1.46	1.82
Reservoir	12/19/01	<10	0.99	J	8.7		5.0	1.14	1.39
Dam	3/27/02	10	1.9	J	<0.3		5.0	1.24	1.52
	5/14/02	3	1.2	J	<0.3		5.0	0.43	0.48
	3/22/05	9.4	---		0.30		0.03	1.19	1.45
	5/25/05	6.0	---		0.28		0.03	0.81	0.95
	6/22/05	6.0	---		0.21		0.03	0.81	0.95
	7/20/05	7.9	---		0.22		0.03	1.02	1.23
	8/11/05	6.0	---		0.20		0.03	0.81	0.95
	9/27/05	6.1	---		0.24		0.03	0.82	0.96
	12/7/05	8.9	---		0.43		0.03	1.13	1.38
NFMR3	3/14/01	22	<1.0		<1.0		5.0	2.46	3.23
North Fork	5/30/01	18	3.6	J	<1.0		5.0	2.04	2.63
Mokelumne	6/19/01	21	0.8	J	<1.0		5.0	2.36	3.09
River, above	7/25/01	20	1.5	J	<1.0		5.0	2.26	2.95
Tiger Creek	8/13/01	19	<1.0		<1.0		5.0	2.13	2.75
Afterbay at	9/26/01	20	1.4	J	0.8	J	5.0	2.26	2.95
Gage M-38	11/26/01	20	4.9	J	0.7	J	5.0	2.26	2.95
	12/19/01	24	1.2	J	0.7	J	5.0	2.65	3.50
	3/26/02	19	2	J	<0.3		5.0	2.17	2.81
	5/14/02	8	<0.3		<0.3		5.0	1.06	1.27
	3/22/05	17.2	---		0.36		0.03	1.99	2.56
	5/25/05	9.5	---		0.40		0.03	1.20	1.46
	6/22/05	8.0	---		0.30		0.03	1.03	1.24
	7/20/05	11.8	---		0.26		0.03	1.44	1.79
	8/11/05	9.5	---		0.24		0.03	1.20	1.46
	9/27/05	22.2	---		0.37		0.03	2.47	3.25
	12/7/05	14.8	---		0.61		0.03	1.75	2.22

Mokelumne FERC 137 Project Data
ALL DATA

Station	Sampling Date	Total Hardness	Total Copper	J	Dissolved Copper	J	Dissolved Copper Quantitation Limit (Reporting Limit),	Hardness based criteria for CTR and USEPA	
		(mg/L)	(ug/L)	Flag	(ug/L)	Flag	ug/L	CCC	CMC
NFMR5									
North Fork	3/14/01	17	0.7	J	<1.0		5.0	1.97	2.53
Mokelumne	5/30/01	14	3.8	J	1.3	J	5.0	1.64	2.07
River, Electra	6/19/01	12	0.6	J	<1.0		5.0	1.46	1.82
Diversion	7/25/01	13	<1.0		<1.0		5.0	1.57	1.97
Dam at the									
canal	8/13/01	11	<1.0		<1.0		5.0	1.34	1.65
	9/26/01	12	5.4		1.2	J	5.0	1.46	1.82
	11/26/01	16	1.7	J	1.1	J	5.0	1.87	2.39
	12/19/01	16	1.6	J	<0.3		5.0	1.87	2.39
	3/26/02	13	3	J	<0.3		5.0	1.57	1.97
	5/14/02	9	<0.3		10		5	1.14	1.39
	3/22/05	14.6	---		0.38		0.03	1.73	2.19
	5/25/05	11.0	---		0.37		0.03	1.36	1.68
	6/22/05	8.0	---		0.33		0.03	1.03	1.24
	7/20/05	9.8	---		0.28		0.03	1.23	1.51
	8/11/05	7.5	---		0.25		0.03	0.98	1.17
	9/27/05	13.1	---		0.36		0.03	1.58	1.98
	12/7/05	10.9	---		1.20		0.03	1.35	1.67

Mokelumne FERC 137 Project Data
ALL DATA

Station	Sampling Date	Total Hardness	Total Copper	J	Dissolved Copper	J	Dissolved Copper Quantitation Limit (Reporting Limit),	Hardness based criteria for CTR and USEPA	
		(mg/L)	(ug/L)	Flag	(ug/L)	Flag	ug/L	CCC	CMC
Sugar Pine Creek, Amador County									
SPC1									
Sugar Pine	3/27/2002	4.9	---		2.7	J	5.0	0.68	0.78
Creek,	4/23/2002	5.0	---		0.47	J	5.0	0.69	0.80
tributary to	6/11/2002	5.4	---		2.0	J	5.0	0.74	0.86
Lower Bear									
River									
Reservoir									
Field Blank	9/25/2002	---			<0.3		5.0		
	10/23/2002	---			1.2	J	5.0		
Field Blank	9/25/2002	---			<0.3		5.0		
	10/23/2002	---			1.1	J	5.0		
Field Blank	9/25/2002	---			<0.3		5.0		
	10/24/2002	---			<0.7		5.0		
Field Blank	10/24/2002	---			<0.7		5.0		
Blank	3/22/05	<1.0			<0.01		0.03		
Blank	5/24/05	<1.0			<0.01		0.03		
Blank	6/21/05	<1.0			<0.01		0.03		
Blank	7/19/05	<1.0			0.24		0.03		
Blank	8/9/05	<1.0			0.18		0.03		
Blank	9/30/05	<1.0			<0.01		0.03		
Blank	12/7/05	<1.0			0.05		0.03		
CTR = USEPA 40 CFR Part 131, Water Quality Standards; Establishment on Numeric Criteria for Priority Toxic Pollutants for the State of California, California Toxics Rule (CTR)									
USEPA = US Environmental Protection Agency National Ambient Water Quality Criteria, Freshwater Aquatic Life Protection Recommended Criteria.									
CCC = Continuous concentration (4-day average)									
CMC = Maximum concentration (1-hour average)									
Highlighted cells for dissolved copper represent concentrations above the recommended criteria for the CTR and USEPA, criteria based on calculation that uses hardness of the sample									
STL = Severn Trent Laboratories, samples were analyzed by this lab from March 2002 through January 2003.									
Reporting limits for STL as of March 2002 were 0.3 ug/L or 1.0 ug/L for the Method Detection Limit (MDL) and 5.0 ug/L for the Reporting Limit (RL)									
WPCL = Water Pollution Control Laboratory (Department of Fish and Game [CDFG]) began analyzing discrete samples in August 2002, (RL = 1.0 ug/L and not a trace clean lab) as backup to STL for comparison									
MPSL = Marine Pollution Studies Laboratory (Department of Fish and Game) Laboratory, Moss Landing CA, -- analyzed dissolved copper samples using ultraclean method beginning in February 2003 (duplicate samples were sent to Severn Trent Laboratory [STL] from 08/02 through 01/03) , MPSL analyzed samples exlusively February 2003 through September 2003.									

Station	Date	Hardness (mg/L)	Dissolved Copper (ug/L)	Dissolved Copper Quantitation Limit (Reporting Limit), ug/L	Hardness based criteria for CTR and USEPA	
			MPSL, Department of Fish and Game		CCC	CMC
Data Meets the Policy						
These data all meet the policy because a US EPA approved analytical method with low quatitation limit (reporting limit) and clean techniques were used to analyze the data. None of the sample concentrations is less than the reporting limit and therefore, there are no "J" flagged values.						
Lower Bear River Reservoir						
LBRR1-top						
Lower Bear River	5/5/2003	4.4	0.09	0.03	0.62	0.71
Reservoir - surface	6/3/2003	4.0	0.12	0.03	0.57	0.65
sample near dam	7/10/2003	3.8	0.11	0.03	0.55	0.62
	8/21/2003	6.3	0.10	0.03	0.84	0.99
	9/9/2003	4.8	0.13	0.03	0.67	0.77
LBRR1-middle						
Lower Bear River	7/10/2003	3.8	0.19	0.03	0.55	0.62
Reserervoir - mid-depth	8/21/2003	7.4	0.13	0.03	0.97	1.16
sample near dam	9/9/2003	4.8	0.29	0.03	0.67	0.77
LBRR1-bottom						
Lower Bear River	5/5/2003	4.2	0.15	0.03	0.60	0.68
Reservoir - bottom	6/3/2003	4.0	0.15	0.03	0.57	0.65
sample near dam	7/10/2003	3.8	0.38	0.03	0.55	0.62
	8/21/2003	8.4	0.13	0.03	1.08	1.30
	9/9/2003	4.6	0.19	0.03	0.64	0.74

Mokelumne FERC 137 Project Data
Data Meets Policy

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Station	Date	Hardness (mg/L)	Dissolved Copper (ug/L)	Dissolved Copper Quantitation	Hardness based criteria for CTR and USEPA	
			MPSL, Department of Fish and Game	Limit (Reporting Limit), ug/L	CCC	CMC
Mokelumne River North Fork						
NFMR2						
	3/22/05	9.4	0.30	0.03	1.19	1.45
	5/25/05	6.0	0.28	0.03	0.81	0.95
North Fork Mokelumne	6/22/05	6.0	0.21	0.03	0.81	0.95
River, below Salt	7/20/05	7.9	0.22	0.03	1.02	1.23
Springs Reservoir Dam	8/11/05	6.0	0.20	0.03	0.81	0.95
	9/27/05	6.1	0.24	0.03	0.82	0.96
	12/7/05	8.9	0.43	0.03	1.13	1.38
NFMR3						
North Fork Mokelumne	3/22/05	17.2	0.36	0.03	1.99	2.56
River, above Tiger	5/25/05	9.5	0.40	0.03	1.20	1.46
Creek Afterbay at Gage	6/22/05	8.0	0.30	0.03	1.03	1.24
M-38	7/20/05	11.8	0.26	0.03	1.44	1.79
	8/11/05	9.5	0.24	0.03	1.20	1.46
	9/27/05	22.2	0.37	0.03	2.47	3.25
	12/7/05	14.8	0.61	0.03	1.75	2.22
NFMR5						
	3/22/05	14.6	0.38	0.03	1.73	2.19
North Fork Mokelumne	5/25/05	11.0	0.37	0.03	1.36	1.68
River, Electra Diversion	6/22/05	8.0	0.33	0.03	1.03	1.24
Dam at the canal	7/20/05	9.8	0.28	0.03	1.23	1.51
	8/11/05	7.5	0.25	0.03	0.98	1.17
	9/27/05	13.1	0.36	0.03	1.58	1.98
	12/7/05	10.9	1.20	0.03	1.35	1.67

Mokelumne FERC 137 Project Data
Data Meets Policy

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Station	Date	Hardness (mg/L)	Dissolved Copper (ug/L)	Dissolved Copper Quantitation Limit (Reporting Limit), ug/L	Hardness based criteria for CTR and USEPA	
			MPSL, Department of Fish and Game		CCC	CMC
Blank	3/22/05	<1.0	<0.01	0.03		
Blank	5/24/05	<1.0	<0.01	0.03		
Blank	6/21/05	<1.0	<0.01	0.03		
Blank	7/19/05	<1.0	0.24	0.03		
Blank	8/9/05	<1.0	0.18	0.03		
Blank	9/30/05	<1.0	<0.01	0.03		
Blank	12/7/05	<1.0	0.05	0.03		
<p>MPSL = Marine Pollution Studies Laboratory (Department of Fish and Game) Laboratory, Moss Landing CA, -- analyzed dissolved copper samples using ultraclean method beginning in February 2003 (duplicate samples were sent to Severn Trent Laboratory [STL] from 08/02 through 01/03) , MPSL analyzed samples exclusively February 2003 through September 2003.</p> <p>CTR = USEPA 40 CFR Part 131, Water Quality Standards; Establishment on Numeric Criteria for Priority Toxic Pollutants for the State of California, California Toxics Rule (CTR)</p> <p>USEPA = US Environmental Protection Agency National Ambient Water Quality Criteria, Freshwater Aquatic Life Protection Recommended Criteria.</p> <p>CCC = Continuous concentration (4-day average)</p> <p>CMC = Maximum concentration (1-hour average)</p> <p>The concentration in parentheses in the Dept. of Fish and Game column represents a blind duplicate sample analyzed by the lab for that sample ID and date</p> <p>Reporting limits for MPSL, Dept of Fish and Game are 0.01 ug/L = MDL and 0.03 ug/L for RL (Ultra Clean Methodology)</p> <p>Highlited cells for dissolved copper represent concentrations above the recommended criteria for the CTR and USEPA, criteria based on calculation that uses hardness of the sample</p>						

Mokelumne FERC 137 Project Data
Data Does Not Meet Policy

Station	Sampling Date	Total Hardness	Dissolved Copper	J	Dissolved Copper Quantitation Limit	Hardness based criteria for CTR and USEPA	
		(mg/L)	(ug/L)	Flag	(Reporting Limit), ug/L	CCC	CMC
Data Does Not Meet the Policy							
Data do not meet the policy because the analytical method that was used to measure dissolved copper in the samples was not a US EPA approved trace metals analytical method and it did not use clean techniques for sampling/handling and because the quantitation limit was greater than the sample concentrations and was also great than the water quality criteria; therefore, there are numerous "J" flagged values. "J" flagged values are estimated concentrations that are less than the reporting limit and greater than the method detection limit and have approximately 60% associated error in the estimate.							
Lower Bear River Reservoir							
LBRR1-top							
Lower Bear River	4/23/2002	4.0	0.31	J	5.0	0.57	0.65
	5/16/2002	5.0	0.77	J	5.0	0.69	0.80
Reservoir - surface	6/19/2002	3.6	<0.3		5.0	0.52	0.59
	7/17/2002	3.6	<0.3		5.0	0.52	0.59
sample near dam	8/28/2002	3.9	3.7	J	5.0	0.56	0.63
	9/25/2002	3.8	<0.3		5.0	0.55	0.62
	10/23/2002	3.7	1.0	J	5.0	0.54	0.60
	12/11/2002	11.0	1.2	J	5.0	1.36	1.68
LBRR1-middle							
Lower Bear River	5/16/2002	4.0	0.9	J	5.0	0.57	0.65
	6/19/2002	3.7	<0.3		5.0	0.54	0.60
Reserervoir - mid-depth	7/17/2002	5.4	<0.3		5.0	0.74	0.86
	8/28/2002	3.9	19 [8]		5.0	0.56	0.63
sample near dam	9/25/2002	3.7	0.91	J	5.0	0.54	0.60
	10/23/2002	3.4	1.2	J	5.0	0.50	0.56
LBRR1-bottom							
Lower Bear River	4/23/2002	4.7	0.68	J	5.0	0.66	0.75
	5/16/2002	4.0	1.2	J	5.0	0.57	0.65
Reservoir - bottom	6/19/2002	3.8	<0.3		5.0	0.55	0.62
	7/17/2002	4.8	1.3	J	5.0	0.67	0.77
sample near dam	8/28/2002	4.0	1.6	J	5.0	0.57	0.65
	9/25/2002	3.7	<0.3		5.0	0.54	0.60
	10/23/2002	3.7	1.0	J	5.0	0.54	0.60
	12/11/2002	11.0	1.1	J	5.0	1.36	1.68

Mokelumne FERC 137 Project Data
Data Does Not Meet Policy

Station	Sampling Date	Total Hardness	Dissolved Copper	J	Dissolved Copper Quantitation Limit (Reporting Limit), ug/L	Hardness based criteria for CTR and USEPA	
		(mg/L)	(ug/L)	Flag		CCC	CMC
Mokelumne River, North Fork							
NFMR2							
North Fork	3/14/01	10	<1.0		5.0	1.23	1.51
Mokelumne	5/31/01	6	2.5	J	5.0	0.80	0.93
River, below	6/19/01	12	<1.0		5.0	1.46	1.82
Salt Springs	7/23/01	16	<1.0		5.0	1.87	2.39
Reservoir							
Dam	8/13/01	12	<1.0		5.0	1.44	1.79
	9/26/01	12	<1.0		5.0	1.46	1.82
	12/19/01	<10	8.7		5.0	1.14	1.39
	3/27/02	10	<0.3		5.0	1.24	1.52
	5/14/02	3	<0.3		5.0	0.43	0.48
NFMR3							
North Fork	3/14/01	22	<1.0		5.0	2.46	3.23
Mokelumne	5/30/01	18	<1.0		5.0	2.04	2.63
River, above	6/19/01	21	<1.0		5.0	2.36	3.09
Tiger Creek	7/25/01	20	<1.0		5.0	2.26	2.95
Afterbay at	8/13/01	19	<1.0		5.0	2.13	2.75
Gage M-38	9/26/01	20	0.8	J	5.0	2.26	2.95
	11/26/01	20	0.7	J	5.0	2.26	2.95
	12/19/01	24	0.7	J	5.0	2.65	3.50
	3/26/02	19	<0.3		5.0	2.17	2.81
	5/14/02	8	<0.3		5.0	1.06	1.27
NFMR5							
North Fork	3/14/01	17	<1.0		5.0	1.97	2.53
Mokelumne	5/30/01	14	1.3	J	5.0	1.64	2.07
River, Electra	6/19/01	12	<1.0		5.0	1.46	1.82
Diversion	7/25/01	13	<1.0		5.0	1.57	1.97
Dam at the	8/13/01	11	<1.0		5.0	1.34	1.65
canal	9/26/01	12	1.2	J	5.0	1.46	1.82
	11/26/01	16	1.1	J	5.0	1.87	2.39
	12/19/01	16	<0.3		5.0	1.87	2.39
	3/26/02	13	<0.3		5.0	1.57	1.97
	5/14/02	9	10		5.0	1.14	1.39

Mokelumne FERC 137 Project Data
Data Does Not Meet Policy

Station	Sampling Date	Total Hardness	Dissolved Copper	J	Dissolved Copper Quantitation Limit	Hardness based criteria for CTR and USEPA	
		(mg/L)	(ug/L)	Flag	(Reporting Limit), ug/L	CCC	CMC
Sugar Pine Creek, Amador County							
SPC1							
Sugar Pine	3/27/2002	4.9	2.7	J	5.0	0.68	0.78
Creek,	4/23/2002	5.0	0.47	J	5.0	0.69	0.80
tributary to	6/11/2002	5.4	2.0	J	5.0	0.74	0.86
Lower Bear							
River							
Reservoir							
Field Blank	9/25/2002	---	<0.3		5.0		
	10/23/2002	---	1.2	J	5.0		
Field Blank	9/25/2002	---	<0.3		5.0		
	10/23/2002	---	1.1	J	5.0		
Field Blank	9/25/2002	---	<0.3		5.0		
	10/24/2002	---	<0.7		5.0		
Field Blank	10/24/2002	---	<0.7		5.0		
FOOTNOTES:							
[*] = questionable data point, possible contamination by the analytical laboratory, unreliable data.							
Blue font and J= Estimated value below the reporting limit and above method detection limit							
CTR = USEPA 40 CFR Part 131, Water Quality Standards; Establishment on Numeric Criteria for Priority Toxic Pollutants for the State of California, California Toxics Rule (CTR)							
USEPA = US Environmental Protection Agency National Ambient Water Quality Criteria, Freshwater Aquatic Life Protection Recommended Criteria.							
CCC = Continuous concentration (4-day average)							
CMC = Maximum concentration (1-hour average)							
Highlighted cells for dissolved copper represent concentrations above the recommended criteria for the CTR and USEPA, criteria based on calculation that uses hardness of the sample							
STL = Severn Trent Laboratories, samples were analyzed by this lab from March 2002 through January 2003.							
Reporting limits for STL as of March 2002 were 0.3 ug/L or 1.0 ug/L for the Method Detection Limit (MDL) and 5.0 ug/L for the Reporting Limit (RL)							
WPCL = Water Pollution Control Laboratory (Department of Fish and Game [CDFG]) began analyzing discrete samples in August 2002, (RL = 1.0 ug/L and not a trace clean lab) as backup to STL for comparison							