

**Attachment 1. Inventory of Co-Occurring
Measurements of pH, water temperature, and Total
Ammonia from the upper San Francisco Estuary,
1974-2010**

ATTACHMENT 1. Inventory of Co-Occurring Measurements of pH, Water Temperature, Total Ammonia, and (for Estuarine Stations) Salinity

Agency	Station Code	Station Name	Latitude	Longitude	Number of Samples		First Date	Last Date
					1974-2010	2000-2010		
Freshwater Reaches								
USGS	11303500	San Joaquin R nr Vernalis CA	37.6760406	-121.2663293	526	163	12/14/1977	1/5/2010
USGS	11447650	Sacramento R @ Freeport CA	38.45601954	-121.5013437	350	126	9/14/1977	12/16/2009
USGS	11447810	Sacramento R a Greens Landing CA	38.345745	-121.5460657	96	0	10/3/1974	9/15/1980
USGS	381427121404901	Lower Yolo Bypass nr Rio Vista CA	38.2407475	-121.6813446	2	2	3/3/2000	3/22/2000
UCD-ATL	711	Sacramento.River at the tip of Grand Island.	38.178806	-121.665306	90	90	1/12/2006	5/20/2009
UCD-ATL	812	San Joaquin River, just west of Oulton Point.	38.090306	-121.6405	50	50	2/7/2006	12/12/2007
UCD-ATL	815	San Joaquin, Confluence of Potato Slough.	38.08375	-121.572639	36	36	1/2/2008	5/20/2009
UCD-ATL	902	Old River at mouth of Holland Cut.	38.019195	-121.582194	90	90	1/12/2006	5/20/2009
UCD-ATL	910	San Joaquin River, between Hog and Turner Cut.	38.001806	-121.448694	51	51	1/2/2008	1/2/2008
UCD-ATL	915	Old River-Western arm at railroad bridge.	37.9425	-121.5635	89	89	1/12/2006	5/20/2009
UCD-ATL	CL	Confluence of Lindsey Slough/Cache Slough	38.244222	-121.68875	38	38	1/2/2008	5/14/2009
UCD-ATL	CU	Upper Cache Slough – mouth of Ulatis Creek	38.284083	-121.717861	38	38	6/7/2007	5/20/2009
UCD-ATL	Hood	DWR Water Quality Monitoring Station	38.367667	-121.520444	53	53	5/8/2007	5/12/2009
UCD-ATL	Light 55	Sacramento River Deep Water Channel at Light 55	38.274028	-121.661917	89	89	2/7/2006	5/14/2009
UCD-ATL	R&R	San Joaquin, Rough & Ready Island	37.957908	-121.357763	39	39	1/4/2008	5/12/2009
SRCSD CMP	Freeport	Freeport	38.4855	-121.5091667	44	44	1/11/2001	1/4/2008
SRCSD CMP	River Mile 44	River Mile 44	38.43467	-121.51917	45	45	7/10/2002	6/12/2008
IEP-EMP	C10	San Joaquin River near Vernalis	37.67575	-121.265	311	0	1/21/1975	12/11/1995
IEP-EMP	C10A	San Joaquin River near Vernalis	37.6793	-121.2651	11	11	3/18/2009	1/5/2010
IEP-EMP	C3	Sacramento River @ Greenes Landing	38.34575	-121.5461	332	0	1/22/1975	12/13/1995

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					1974-2010	2000-2010		
IEP-EMP	C3A	Sacramento River @ Hood	38.382	-121.519	11	11	3/18/2009	1/5/2010
IEP-EMP	C7	San Joaquin River @ Mossdale Bridge	37.786	-121.306	307	0	1/21/1975	12/13/1995
IEP-EMP	C9	West Canal @ Clifton Court Intake	37.8298	-121.5574	295	0	1/22/1975	12/11/1995
IEP-EMP	D16	San Joaquin River @ Twitchell Island	38.0969	-121.6691	328	0	1/7/1975	12/15/1995
IEP-EMP	D19	Frank's Tract near Russo's Landing	38.04376	-121.6148	327	10	1/7/1975	1/7/2010
IEP-EMP	D24	Sacramento River below Rio Vista Bridge	38.15	-121.7	340	0	1/7/1975	12/19/1995
IEP-EMP	D26	San Joaquin River @ Potato Point	38.07664	-121.5669	355	11	1/7/1975	1/6/2010
IEP-EMP	D28A	Old River @ Rancho Del Rio	37.97048	-121.573	312	11	2/3/1975	1/7/2010
IEP-EMP	MD10	Disappointment Slough @ Bishop Cut	38.04381	-121.4188	295	0	1/21/1975	12/8/1994
IEP-EMP	MD10A	South channel of Disappointment Slough	38.04381	-121.4188	22	10	1/23/1995	1/6/2010
IEP-EMP	MD6	Sycamore Slough near Mouth	38.1415	-121.4687	98	0	2/4/1975	9/27/1983
IEP-EMP	MD7	South Fork Mokelumne below Sycamore Slough	38.12513	-121.497	122	0	2/4/1975	9/27/1983
IEP-EMP	MD7A	Little Potato Slough @ Terminous	38.11382	-121.498	180	0	1/10/1985	12/14/1995
IEP-EMP	P10	Middle River @ Victoria Canal	37.8912	-121.4894	102	0	3/22/1976	9/20/1982
IEP-EMP	P10A	Middle River @ Union Pt.	37.89126	-121.4883	191	0	10/5/1982	12/13/1995
IEP-EMP	P12	Old River @ Tracy Road Br.	37.805	-121.449	247	0	1/22/1975	8/16/1991
IEP-EMP	P12A	Old River @ Oak Island	37.80284	-121.4569	63	0	9/4/1991	12/11/1995
IEP-EMP	P2	Mokelumne River @ Franklin Road bridge	38.25542	-121.4403	29	0	1/21/1975	12/15/1977
IEP-EMP	P8	San Joaquin River @ Stockton aka Buckley Cove	37.97817	-121.3823	332	10	2/3/1975	1/6/2010
DWR-MWQI	B0702000	San Joaquin R. nr. Vernalis	37.67611111	-121.2641667	194	136	7/18/1996	12/15/2009
DWR-MWQI	B9591000	Contra Costa PP Number 01	37.97888889	-121.7008333	92	71	6/6/1996	2/3/2009
DWR-MWQI	B9C74901336	DMC Intake @ Lindemann Rd.	37.81611111	-121.56	16	0	6/13/1996	9/2/1997
DWR-MWQI	B9D43434343	Barker Slough @ Cook Road	38.28416667	-121.8227778	1	0	1/29/1998	1/29/1998
DWR-MWQI	B9D74711184	San Joaquin R. @ Mossdale Bridge	37.78611111	-121.3058333	15	0	6/13/1996	9/2/1997
DWR-MWQI	B9D75351293	Middle R. @ Borden Hwy.	37.89111111	-121.4888889	15	0	6/12/1996	9/3/1997
DWR-MWQI	B9D75351342	Old R. nr. Byron (St 9) (near Hwy 4 Bridge)	37.89111111	-121.5691667	105	84	6/12/1996	2/3/2009

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DWR-MWQI	B9D75811344	Old River at Bacon Island	37.96944444	-121.5711111	113	85	6/12/1996	2/3/2009
DWR-MWQI	B9D81561483	Calhoun Cut at Hwy 113	38.26027778	-121.8044444	14	0	1/29/1998	6/24/1998
DWR-MWQI	B9D81651476	Barker Slough Near Pumping Plant	38.27472222	-121.7933333	12	0	3/25/1998	6/24/1998
DWR-MWQI	B9D82071327	Sacramento River at Greene's Ldg.	38.34583333	-121.545	21	0	6/5/1996	5/4/1998
DWR-MWQI	B9D82211312	Sacramento R @ Hood	38.36861111	-121.5205556	134	131	6/10/1998	1/4/2010
DWR-MWQI	KA000000	Clifton Court Intake	37.82978056	-121.5573528	34	34	3/19/2007	12/14/2009
DWR-MWQI	KA000331	Delta P.P. Headworks at H.O. Banks PP	37.80194444	-121.6202778	151	115	6/13/1996	12/16/2009
Estuarine Reaches								
UCD-ATL	323	San Pablo Bay, Rodeo Flats opposite end of rock wall.	38.048306	-122.282806	14	14	1/25/2006	7/27/2006
UCD-ATL	340	Napa River along Vallejo seawall and park.	38.0975	-122.262194	57	57	1/25/2006	5/13/2009
UCD-ATL	405	Carquinez Straight, just west of Benicia army dock.	38.039694	-122.1505	70	70	1/25/2006	5/18/2009
UCD-ATL	504	Suisun Bay, east of middle point.	38.0545	-121.9895	51	51	1/12/2006	12/13/2007
UCD-ATL	508	Suisun Bay, off Chipps Island, opposite Sacramento North ferry slip.	38.0455	-121.918806	87	87	1/12/2006	5/18/2009
UCD-ATL	602	Grizzly Bay, northeast of Suisun Slough at Dolphin.	38.114	-122.046194	89	89	1/25/2006	5/18/2009
UCD-ATL	609	Montezuma Slough at Nurse Slough.	38.167194	-121.938	89	89	1/12/2006	5/18/2009
UCD-ATL	704	Sacramento River, north side across from Sherman Lake.	38.069167	-121.775278	50	50	1/12/2006	12/13/2007
UCD-ATL	804	Middle of Broad Slough, west end.	38.018194	-121.797	53	53	1/12/2006	12/13/2007
UCD-ATL	Napa	Napa River in Napa City @ end of River Park Blvd.	38.277694	-122.282472	28	28	1/1/2008	5/12/2009
UCD-ATL	Suisun Public Dock	Suisun Public Dock	38.236188	-122.037662	2	2	1/1/2008	1/15/2008
UCD-ATL	Suisun Slough	Suisun Slough at Rush Ranch, downstream of Boynton Slough	38.207717	-122.033048	35	35	4/15/2009	5/12/2009
IEP-EMP	D10	Sacramento River @ Chipps Island	38.04631	-121.9183	309	0	1/8/1975	12/18/1995
IEP-EMP	D11	Sherman Lake near Antioch	38.04229	-121.7995	300	0	1/7/1975	12/18/1995
IEP-EMP	D12	San Joaquin River @ Antioch Ship Channel	38.02161	-121.8063	310	0	1/8/1975	12/18/1995
IEP-EMP	D14A	Big Break near Oakley	38.01776	-121.7114	271	0	1/8/1975	12/15/1995

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IEP-EMP	D15	San Joaquin River @ Jersey Point	38.053	-121.688	295	0	1/7/1975	12/15/1995
IEP-EMP	D2	Suisun Bay near Preston Point	38.06544	-122.0545	13	0	1/8/1975	12/16/1975
IEP-EMP	D22	Sacramento River @ Emmaton	38.083	-121.739	335	0	1/7/1975	12/19/1995
IEP-EMP	D4	Sacramento River above Point Sacramento	38.06248	-121.8205	343	9	1/7/1975	12/10/2009
IEP-EMP	D41	San Pablo Bay near Pinole Point	38.03022	-122.3729	241	10	2/14/1980	12/14/2009
IEP-EMP	D42	San Pablo Bay near Mare Island	38.05872	-122.2847	44	0	4/8/1976	12/12/1979
IEP-EMP	D6	Suisun Bay @ Bulls Head nr. Martinez	38.04436	-122.1177	324	10	1/8/1975	12/14/2009
IEP-EMP	D7	Grizzly Bay @ Dolphin nr. Suisun Slough	38.11714	-122.0397	331	10	1/8/1975	12/11/2009
IEP-EMP	D8	Suisun Bay off Middle Point nr. Nichols	38.05992	-121.99	315	10	1/8/1975	1/8/2010
IEP-EMP	D9	Honker Bay near Wheeler Point	38.07244	-121.9392	324	0	1/8/1975	12/18/1995
IEP-EMP	S42	Suisun Slough 300' south of Volanti Slough	38.181	-122.046	85	0	2/22/1978	8/3/1984
DWR-MWQI	E0B80261551	Sacramento River @ Mallard Island	38.04361111	-121.9186111	109	85	6/6/1996	1/5/2010