

POND 1

Water Chemistry Results Napa-Sonoma Marsh Restoration Project

DRAFT - Incomplete as of 01/08/02

ANALYTE	EPA Method	Report Limits (as noted)	POND 1			Criterion Approx. (as noted)
			1-A	1-B	Average	
Total metals (mg/L)						
Arsenic	3020/6020	0.006				0.036
Cadmium	3020/6020	0.005				0.0022
Chromium	3020/6020	0.01				0.18
Copper	3020/6020	0.01				0.0031
Lead	3020/6020	0.002				0.0025
Nickel	3020/6020	0.01				0.0071
Selenium	3020/6020	0.02				0.005
Silver	3020/6020	0.005				0.0012
Zinc	3020/6020	0.02				0.058
Mercury	3020/6020	0.0001				2.5E-05
Sodium	3010/6010	100				
Potassium	3010/6010	10				
Dissolved Metals (mg/L)						
Arsenic	3020/6020	0.006	0.018	0.021	0.0195	
Cadmium	3020/6020	0.005	<0.005	<0.005	ND	
Chromium	3020/6020	0.01	<0.01	<0.01	ND	
Copper	3020/6020	0.01	0.03	0.032	0.031	
Lead	3020/6020	0.002	<0.002	0.019	0.010	
Nickel	3020/6020	0.01	<0.01	<0.01	ND	
Selenium	3020/6020	0.02	<0.02	<0.02	ND	
Silver	3020/6020	0.005	<0.005	<0.005	ND	
Zinc	3020/6020	0.02	<0.02	0.042	0.013	
Mercury	7470	0.0001	<0.0001	<0.0001	ND	
Sodium	3010/6010	500	14100	14000	14050	
Potassium	3010/6010	100	527	502	514.5	
Semi-Volatile Organics (ug/L)						
Pyridine	625/8270		<13	<10	ND	
Bis(2-Chloroethyl) ether	625/8271		<2.6	<2	ND	1.4(0.031)
2-Chlorophenol	625/8272		<2.6	<2	ND	120
Phenol	625/8273		<2.6	<2	ND	21,000
1,3-Dichlorobenzene	625/8274		<2.6	<2	ND	400
1,4-Dichlorobenzene	625/8275		<2.6	<2	ND	400
1,2-Dichlorobenzene	625/8276		<2.6	<2	ND	2700
Benzyl alcohol	625/8277		<5.2	<4	ND	
Bis(2-chloroisopropyl)ether	625/8278		<2.6	<2	ND	1,400
2-Methylphenol	625/8279		<2.6	<2	ND	
Hexachloroethane	625/8280		<2.6	<2	ND	
N-Nitroso-di-n-propylamine	625/8281		<2.6	<2	ND	0.005
4(3)-Methylphenol	625/8282		<2.6	<2	ND	VA
Nitrobenzene	625/8283		<2.6	<2	ND	17
Isophorone	625/8284		<2.6	<2	ND	8.4
2-Nitrophenol	625/8285		<5.2	<4	ND	VA
2,4-Dimethylphenol	625/8286	<0.5-1.0	<3.25	<2.5	ND	540
Bis(2-Chloroethoxy)methane	625/8287	0.05	<2.6	<2	ND	VA
2,4-Dichlorophenol	625/8288	0.05	<2.6	<2	ND	93
1,2,4-Trichlorobenzene	625/8289	0.05	<2.6	<2	ND	VA
Naphthalene	625/8290	0.05	<2.6	<2	ND	VA
4-Chloroaniline	625/8291	0.05	<26	<20	ND	
Hexachlorobutadiene	625/8292	0.5	<2.6	<2	ND	
2-Methylnaphthalene	625/8293		<2.6	<2	ND	
4-Chloro-3-methylphenol	625/8294		<2.6	<2	ND	VA
Hexachlorocyclopentadiene	625/8295		<3.25	<2.5	ND	240
2,4,6-Trichlorophenol	625/8296	0.10	<2.6	<2	ND	2.1
2,4,5-Trichlorophenol	625/8297		<2.6	<2	ND	
2-Chloronaphthalene	625/8298	0.10	<2.6	<2	ND	1,700
2-Nitroalanine	625/8299		<6.5	<5	ND	
Acenaphthylene	625/8300	0.10	<2.6	<2	ND	VA
Dimethylphthalate	625/8301	0.10	<2.6	<2	ND	313,000
2,6-Dinitrotoluene	625/8302	0.05	<2.6	<2	ND	VA
Acenaphthene	625/8303	0.10	<2.6	<2	ND	1,200
3-Nitroaniline	625/8304	0.10	<13	<10	ND	
2,4-Dinitrophenol	625/8305	0.10	<6.5	<5	ND	70
Dibenzofuran	625/8306	0.10	<2.6	<2	ND	
2,4-Dinitrotoluene	625/8307	0.05	<2.6	<2	ND	9.1(0.11)
4-Nitrophenol	625/8308	0.05	<6.5	<5	ND	VA
Fluorene	625/8309	0.50	<2.6	<2	ND	1,300
4-Chlorophenyl-phenylether	625/8310	1.00	<2.6	<2	ND	VA
Diethylphthalate	625/8311		<2.6	<2	ND	23,000
4-Nitroaniline	625/8312	<0.5-1.0	<13	<10	ND	
N-Nitrosodiphenylamine	625/8313		<2.6	<2	ND	5
4,6-Dinitro-2-methylphenol	625/8314		<2.6	<2	ND	13.4
4-Bromophenyl-phenylether	625/8315		<2.6	<2	ND	VA
Hexachlorobenzene	625/8316		<2.6	<2	ND	0.00075
Pentachlorophenol	625/8317		<6.5	<5	ND	7.9(0.28)
Phenanthrene	625/8318		<2.6	<2	ND	VA
Anthracene	625/8319		<2.6	<2	ND	9,600
Carbazole	625/8320		<6.5	<5	ND	
Di-n-butylphthalate	625/8321	0.1	<2.6	<2	ND	2,700
Fluoranthene	625/8322	0.1	<2.6	<2	ND	300
Pyrene	625/8323	0.05	<2.6	<2	ND	960
Benzidine	625/8324	0.05	<65	<50	ND	0.00012
Butylbenzylphthalate	625/8325		<3	<2	ND	3,000
Benzo(a)anthracene	625/8326		<2.6	<2	ND	0.0044
Chrysene	625/8327	0.02	<2.6	<2	ND	0.0044
3,3-Dichlorobenzidine	625/8328	0.1	<13	<10	ND	0.04
Bis(2-Ethylhexyl)phthalate	625/8329	1.0	<3.25	<2.5	ND	1.8
Di-n-octylphthalate	625/8330	0.05	<3.25	<2.5	ND	VA
Benzo(b)fluoranthene	625/8331	20	<2.6	<2	ND	0.0044
Benzo(k)fluoranthene	625/8332	20	<2.6	<2	ND	0.0044
Benzo(a)pyrene	625/8333	100	<2.6	<2	ND	0.0044
Indeno[1,2,3-cd]pyrene	625/8334	10	<2.6	<2	ND	0.0044
Dibenz[a,h]anthracene	625/8335	0.50	<2.6	<2	ND	0.0044
Benzo[g,h,i]perylene	625/8336	0.10	<2.6	<2	ND	VA

ANALYTE	EPA Method	Report Limits (as noted)	POND 1			Criterion Approx. (as noted)
			1-A	1-B	Average	
Pesticides (ug/L)						
Azinphosmethyl (Guthion)	8141A		<1.0	<1.0	ND	
Bolstar	8141A		<0.10	<0.10	ND	
Chloropyrifos (Dursban)	8141A		<0.05	<0.05	ND	0.0056
Coumaphos	8141A		<0.20	<0.20	ND	
Def/Morphos	8141A		<0.10	<0.10	ND	
Demeton (total)	8141A		<0.20	<0.20	ND	
Diazinon	8141A		<0.05	<0.05	ND	0.05
Dichlorvos	8141A		<0.20	<0.20	ND	
Dimethoate	8141A		<0.10	<0.10	ND	
Disulfoton	8141A		<0.10	<0.10	ND	
EPN	8141A		<0.10	<0.10	ND	
EPTC	8141A		<0.10	<0.10	ND	
Ethion	8141A		<0.10	<0.10	ND	
Ethoprop	8141A		<0.10	<0.10	ND	
Fensulfothion	8141A		<0.50	<0.50	ND	
Fenthion	8141A		<0.10	<0.10	ND	
Malathion	8141A		<0.10	<0.10	ND	
Mevinphos	8141A		<0.70	<0.70	ND	
Naled	8141A		<0.50	<0.50	ND	
Parathion, ethyl	8141A		<0.10	<0.10	ND	
Parathion, methyl	8141A		<0.10	<0.10	ND	
Phorate	8141A		<0.10	<0.10	ND	
Prowl (pendimethalin)	8141A		<0.10	<0.10	ND	
Ronnel	8141A		<0.10	<0.10	ND	
Stirophos	8141A		<0.10	<0.10	ND	
Sulfotep	8141A		<0.10	<0.10	ND	
Tokuthion	8141A		<0.10	<0.10	ND	
Trichloronate	8141A		<0.10	<0.10	ND	
Trifuralin	8141A		<0.10	<0.10	ND	
Pesticides (ug/L)						
Aldrin	608/8081	0.05	<0.05	<0.05	ND	0.00013
alpha-BHC	608/8081	0.05	<0.05	<0.05	ND	0.0039
beta-BHC	608/8081	0.05	<0.05	<0.05	ND	0.014
gamma-BHC	608/8081	0.05	<0.05	<0.05	ND	0.019
delta-BHC	608/8081	0.05	<0.05	<0.05	ND	VA
Chlordane	608/8081	0.5	<0.50	<0.50	ND	0.00057
4,4-DDD	608/8081	0.1	<0.10	<0.10	ND	0.00083
4,4-DDE	608/8081	0.1	<0.10	<0.10	ND	0.00059
4,4-DDT	608/8081	0.1	<0.10	<0.10	ND	0.00059
Dieldrin	608/8081	0.1	<0.10	<0.10	ND	0.00014
Endosulfan I	608/8081	0.05	<0.05	<0.05	ND	0.0087
Endosulfan II	608/8081	0.1	<0.10	<0.10	ND	0.0087
Endosulfan Sulfate	608/8081	0.1	<0.10	<0.10	ND	110
Endrin	608/8081	0.1	<0.10	<0.10	ND	0.0023
Endrin Aldehyde	608/8081	0.1	<0.10	<0.10	ND	0.76
Heptachlor	608/8081	0.05	<0.05	<0.05	ND	0.00021
Heptachlor Epoxide	608/8081	0.05	<0.05	<0.05	ND	0.0001
Methoxychlor	608/8081	0.5	<0.50	<0.50	ND	
Toxaphene	608/8081	1	<1.00	<1.00	ND	0.00073
PCB's (ug/L)						
Arochlors 1016		0.5	<0.5	<0.5	ND	0.00017
Arochlors 1221		0.5	<0.5	<0.5	ND	0.00017
Arochlors 1232		0.5	<0.5	<0.5	ND	0.00017
Arochlors 1242		0.5	<0.5	<0.5	ND	0.00017
Arochlors 1248		0.5	<0.5	<0.5	ND	0.00017
Arochlors 1254		0.5	<0.5	<0.5	ND	0.00017
Arochlors 1260		0.5	<0.5	<0.5	ND	0.00017
Cyanide (mg/L)	CM 4500 CN	0.02	0.02	0.02	0.02	0.001
Ammonia as N (mg/L)	SM 4500 NH ₃	0.1	0.2	0.3		

POND 1A

Water Chemistry Data

Napa-Sonoma Marsh Restoration Project

DRAFT - Incomplete as of 01/08/02

ANALYTE	EPA Method	Report Limits (as noted)	POND 1A			Criterion Approx. (as noted)	ANALYTE	EPA Method	Report Limits (as noted)	POND 1A			Criterion Approx. (as noted)
			1A-A	1A-B	Average					1A-A	1A-B	Average	
Total metals (mg/L)						Semi-Volatile Organics (ug/L)							
Arsenic	3020/6020	0.006	0.012	0.012	0.012	0.036	Pyridine	625/8270		<10		ND	
Cadmium	3020/6020	0.005	<0.005	ND	0.0022	0.0022	Bis(2-Chloroethyl) ether	625/8270		<2		ND	1.4(0.031)
Chromium	3020/6020	0.01	<0.01	ND	0.18	0.18	2-Chlorophenol	625/8270		<2		ND	120
Copper	3020/6020	0.01	0.053	0.053	0.0031	0.0031	Phenol	625/8270		<2		ND	21,000
Lead	3020/6020	0.002	<0.002	ND	0.0025	0.0025	1,3-Dichlorobenzene	625/8270		<2		ND	400
Nickel	3020/6020	0.01	<0.01	ND	0.0071	0.0071	1,4-Dichlorobenzene	625/8270		<2		ND	400
Selenium	3020/6020	0.02	<0.02	ND	0.005	0.005	1,2-Dichlorobenzene	625/8270		<2		ND	2700
Silver	3020/6020	0.005	<0.005	ND	0.0012	0.0012	Benzyl alcohol	625/8270		<4		ND	
Zinc	3020/6020	0.02	0.047	0.047	0.058	0.058	Bis(2-chloroisopropyl)ether	625/8270		<2		ND	1,400
Mercury	3020/6020	0.0001	<0.0001	ND	2.5E-05	2.5E-05	2-Methylphenol	625/8270		<2		ND	
Antimony	3020/6020				0.014	0.014	Hexachloroethane	625/8270		<2		ND	
Beryllium	3020/6020				VA	VA	N-Nitroso-di-n-propylamine	625/8270		<2		ND	0.005
Thallium	3020/6020				0.0017	0.0017	4/3-Methylphenol	625/8270		<2		ND	VA
Sodium	3010/6010	100	20,400	20,400			Nitrobenzene	625/8270		<2		ND	17
Potassium	3010/6010	10	670	670			Isophorone	625/8270		<2		ND	8.4
Dissolved Metals (mg/L)						Pesticides (ug/L)							
Arsenic	3020/6020	0.006	0.019	0.015	0.017		2-Nitrophenol	625/8270		<4		ND	VA
Cadmium	3020/6020	0.005	<0.005	<0.005	ND		2,4-Dimethylphenol	625/8270	<0.5-1.0	<2.5		ND	540
Chromium	3020/6020	0.01	<0.01	<0.01	ND		Bis(2-Chloroethoxy)methane	625/8270	0.05	<2		ND	VA
Copper	3020/6020	0.01	0.047	0.042	0.0445		2,4-Dichlorophenol	625/8270	0.05	<2		ND	93
Lead	3020/6020	0.002	<0.002	<0.002	ND		1,2,4-Trichlorobenzene	625/8270	0.05	<2		ND	VA
Nickel	3020/6020	0.01	<0.01	<0.01	ND		Naphthalene	625/8270	0.05	<2		ND	VA
Selenium	3020/6020	0.02	<0.02	<0.02	ND		4-Chloroaniline	625/8270	0.05	<20		ND	
Silver	3020/6020	0.005	<0.005	<0.005	ND		Hexachlorobutadiene	625/8270	0.5	<2		ND	
Zinc	3020/6020	0.02	0.04	0.036	0.038		2-Methylnaphthalene	625/8270		<2		ND	
Mercury	7470	0.0001	<0.0001	<0.0001	ND		4-Chloro-3-methylphenol	625/8270		<2		ND	VA
Antimony	3020/6020				ND		Hexachlorocyclopentadiene	625/8270		<2.5		ND	240
Beryllium	3020/6020				ND		2,4,6-Trichlorophenol	625/8270	0.10	<2		ND	2.1
Thallium	3020/6020				ND		2,4,5-Trichlorophenol	625/8270		<2		ND	
Sodium	3010/6010	500	22,300	19,400	20,850		2-Chloronaphthalene	625/8270	0.10	<2		ND	1,700
Potassium	3010/6010	100	690	690	690		2-Nitroaniline	625/8270		<5		ND	
Cyanide (mg/L)	CM 4500 CN	0.02	<0.02	0.08	0.045	0.001	Acenaphthylene	625/8270	0.10	<2		ND	VA
Hexavalent Chromium (mg/L)	SM 3500 CR		<0.02		ND	0.011	Dimethylphthalate	625/8270	0.10	<2		ND	313,000
Ammonia as N (mg/L)						Pesticides (ug/L)							
Ammonia as N (mg/L)	SM 4500 NH ₃	0.1	0.15	0.5	0.325		2,6-Dinitrotoluene	625/8270	0.05	<2		ND	VA
Nitrate as N (mg/L)	SM 4500 NO ₃	0.1	0.4	0.8	0.6		Acenaphthene	625/8270	0.10	<2		ND	1,200
Total Phosphorous (mg/L)	SM 4500 P E	0.05	<0.05	<0.05	ND		3-Nitroaniline	625/8270	0.10	<10		ND	70
pH	EPA 150.1	0.1	9.2	9.0	9.1		2,4-Dinitrophenol	625/8270	0.10	<5		ND	
BOD (mg/L)	SM 5210 B	1	26.7	26.7	26.7		Dibenzofuran	625/8270	0.10	<2		ND	
Turbidity NTU	SM 2130 B	0.05	23.1	24.2	23.65		2,4-Dinitrotoluene	625/8270	0.05	<2		ND	9.1(0.11)
TSS (mg/L)	SM 2540 D	20	48	46	47		4-Nitrophenol	625/8270	0.05	<5		ND	VA
TDS (mg/L)	SM 2540 C	20	59,900	268,000	163,950		Fluorene	625/8270	0.50	<2		ND	1,300
Chloride (mg/L)	SM 2340B	100	34,200	33,000	33,600		4-Chlorophenyl-phenylether	625/8270	1.00	<2		ND	VA
Hardness (mg CaCO ₃ /L)	SM 2340B	10	11,300		11,300		Diethylphthalate	625/8270		<2		ND	23,000
TKN (mg/L)	SM 4500NC	0.5	5.5	2.9	4.2		4-Nitroaniline	625/8270	<0.5-1.0	<10		ND	
Organic N (mg/L)	SM 4500 N	0.1	5.3		5.3		N-Nitrosodiphenylamine	625/8270		<2		ND	5
DO (mg/L)			8.04		8.04		4,6-Dinitro-2-methylphenol	625/8270		<2		ND	13.4
Asbestos MF/L: Str				ND	ND		4-Bromophenyl-phenylether	625/8270		<2		ND	VA
Asbestos MF/L: >5 um				ND	ND		Hexachlorobenzene	625/8270		<2		ND	0.00075
Asbestos MF/L: >10 um				ND	ND	7000000	Pentachlorophenol	625/8270		<5		ND	7.9(0.28)
Fecal Coliform (Total) MPN/100mL			2	<2	1.5		Phenanthrene	625/8270		<2		ND	VA
							Anthracene	625/8270		<2		ND	9,600
Volatiles (ug/L)						Pesticides (ug/L)							
Acetone	624/8260	<2-20		<25.0	ND		Carbazole	625/8270		<5		ND	
Acetonitrile	624/8260			<2.0	ND		Di-n-butylphthalate	625/8270	0.1	<2		ND	2,700
Acrolein (Propenal)	624/8260			<100.0	ND	320	Fluoranthene	625/8270	0.1	<2		ND	300
Acrylonitrile	624/8260			<10.0	ND	0.059	Pyrene	625/8270	0.05	<2		ND	960
Allyl chloride	624/8260			<1.0	ND		Benzidrine	625/8270	0.05	<50		ND	0.00012
Benzene	624/8260			<1.0	ND	1.2	Butylbenzylphthalate	625/8270		<2		ND	3,000
Bromobenzene	624/8260			<1.0	ND		Benzo(a)anthracene	625/8270		<2		ND	0.0044
Bromochloromethane	624/8260			<1.0	ND		Chrysene	625/8270	0.02	<2		ND	0.0044
Bromodichloromethane	624/8260			<1.0	ND	0.56	3,3-Dichlorobenzidine	625/8270	0.1	<10		ND	0.04
Bromoform	624/8260			<1.0	ND	4.3	Bis(2-Ethylhexyl)phthalate	625/8270	1.0	<2.5		ND	1.8
Bromomethane	624/8260			<2.0	ND	48	Di-n-octylphthalate	625/8270	0.05	<2.5		ND	VA
2-Butanone (MEK)	624/8260			<25.0	ND		Benzo(b)fluoranthene	625/8270	20	<2		ND	0.0044
n-Butylbenzene	624/8260			<1.0	ND		Benzo(k)fluoranthene	625/8270	20	<2		ND	0.0044
sec-Butylbenzene	624/8260			<1.0	ND		Benzo(a)pyrene	625/8270	100	<2		ND	0.0044
tert-butylbenzene	624/8260			<1.0	ND		Indeno[1,2,3-cd]pyrene	625/8270	10	<2		ND	0.0044
Carbon disulfide	624/8260			<1.0	ND		Dibenz[a,h]anthracene	625/8270	0.50	<2		ND	0.0044
Carbon tetrachloride	624/8260			<2.0	ND	0.25	Benzo[g,h,i]perylene	625/8270	0.10	<2		ND	VA
Chlorobenzene	624/8260			<1.0	ND	680							
Chlorodichloromethane	624/8260			<1.0	ND	34(0.401)	Pesticides (ug/L)						
Chloroethane	624/8260			<2.0	ND	VA	Azinphosmethyl (Guthion)	8141A		<1.0	<1.0	ND	
2-Chloroethyl vinyl ether	624/8260			<2.0	ND	VA	Bolstar	8141A		<0.10	<0.10	ND	
Chloroform	624/8260			<1.0	ND	VA	Chlorpyrifos (Dursban)	8141A		<0.05	<0.05	ND	0.0056
Chloromethane	624/8260			<2.0	ND	VA	Coumaphos	8141A		<0.20	<0.20	ND	
2-Chlorotoluene	624/8260			<1.0	ND		Def/Morphos	8141A		<0.10	<0.10	ND	
4-Chlorotoluene	624/8260			<1.0	ND		Demeton (total)	8141A		<0.20	<0.20	ND	
1,2-Dibromo-3-chloropropane (DBCP)	624/8260			<2.0	ND		Diazinon	8141A		<0.05	<0.05	ND	0.05
1,2-Dibromoethane (EDB)	624/8260			<1.0	ND		Dichlorvos	8141A		<0.20	<0.20	ND	
Dibromomethane	624/8260			<1.0	ND		Dimethoate	8141A		<0.10	<0.10	ND	
1,2-Dichlorobenzene	624/8260			<1.0	ND	2,700	Disulfoton	8141A		<0.10	<0.10	ND	
1,3-Dichlorobenzene	624/8260			<1.0	ND	400	EPN	8141A		<0.10	<0.10	ND	
1,4-Dichlorobenzene	624/8260			<1.0	ND	400	EPTC	8141A		<0.10	<0.10	ND	
trans-1,4-Dichloro-2-butene	624/8260			<2.0	ND		Ethion	8141A		<0.10	<0.10	ND	
Dichlorodifluoromethane	624/8260			<2.0	ND		Ethoprop	8141A		<0.10	<0.10	ND	
1,1-Dichloroethane	624/8260			<1.0	ND	VA	Fensulfthion	8141A		<0.50	<0.50	ND	
1,2-Dichloroethane	624/8260			<1.0	ND	0.38	Fenthion	8141A		<0.10	<0.10	ND	
1,1-Dichloroethene	624/8260			<1.0	ND	3.2(0.057)	Malathion	8141A		<0.10	<0.10	ND	
cis-1,2-Dichloroethene	624/8260			<1.0	ND		Mevinphos	8141A		<0.70	<0.70	ND	

POND 2

Water Chemistry Results Napa-Sonoma Marsh Restoration Project DRAFT - Incomplete as of 01/08/02

ANALYTE	EPA Method	Reporting Limits (as noted)	POND 2					Criterion Approx. (as noted)
			2-A	2-B	2-C	2-D	Average	
Total metals (mg/L)								
Arsenic	3020/6020	0.006	0.009	0.01	0.013	0.01	0.0105	0.036
Cadmium	3020/6020	0.005	<0.005	<0.005	<0.005	<0.005	ND	0.0022
Chromium	3020/6020	0.01	<0.01	<0.01	<0.01	<0.01	ND	0.18
Copper	3020/6020	0.01	0.034	0.034	0.034	0.033	0.03375	0.0031
Lead	3020/6020	0.002	<0.002	<0.002	<0.002	<0.002	ND	0.0025
Nickel	3020/6020	0.01	0.011	0.011	0.011	<0.01	0.011	0.0071
Selenium	3020/6020	0.02	<0.02	<0.02	<0.02	<0.02	ND	0.005
Silver	3020/6020	0.005	<0.005	<0.005	<0.005	<0.005	ND	0.0012
Zinc	3020/6020	0.02	0.033	0.026	0.022	0.024	0.0263	0.058
Mercury	3020/6020	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	ND	2.5E-05
Sodium	3020/6020	100	13600	13900	13700	13200	13600	
Potassium	3020/6020	10	442	437	517	444	460	
Dissolved Metals (mg/L)								
Arsenic	3020/6020	0.006						
Cadmium	3020/6020	0.005						
Chromium	3020/6020	0.01						
Copper	3020/6020	0.01						
Lead	3020/6020	0.002						
Nickel	3020/6020	0.01						
Selenium	3020/6020	0.02						
Silver	3020/6020	0.005						
Zinc	3020/6020	0.02						
Mercury	7470	0.0001						
Sodium	3010/6010	500						
Potassium	3010/6010	100						
Semi-Volatile Organics (ug/L)								
Pyridine	625/8270		<10	<10	<10	<10	ND	
Bis(2-Chloroethyl) ether	625/8270		<2	<2	<2	<2	ND	1.4(0.031)
2-Chlorophenol	625/8270		<2	<2	<2	<2	ND	120
Phenol	625/8270		<2	<2	<2	<2	ND	21,000
1,3-Dichlorobenzene	625/8270		<2	<2	<2	<2	ND	400
1,4-Dichlorobenzene	625/8270		<2	<2	<2	<2	ND	400
1,2-Dichlorobenzene	625/8270		<2	<2	<2	<2	ND	2700
Benzyl alcohol	625/8270		<4	<4	<4	<4	ND	
Bis(2-chloroisopropyl) ether	625/8270		<2	<2	<2	<2	ND	1,400
2-Methylphenol	625/8270		<2	<2	<2	<2	ND	
Hexachloroethane	625/8270		<2	<2	<2	<2	ND	
N-Nitroso-di-n-propylamine	625/8270		<2	<2	<2	<2	ND	0.005
4(3)-Methylphenol	625/8270		<2	<2	<2	<2	ND	VA
Nitrobenzene	625/8270		<2	<2	<2	<2	ND	17
Isophorone	625/8270		<2	<2	<2	<2	ND	8.4
2-Nitrophenol	625/8270		<4	<4	<4	<4	ND	VA
2,4-Dimethylphenol	625/8270	<0.5-1.0	<2.5	<2.5	<2.5	<2.5	ND	540
Bis(2-Chloroethoxy)methane	625/8270	0.05	<2	<2	<2	<2	ND	VA
2,4-Dichlorophenol	625/8270	0.05	<2	<2	<2	<2	ND	93
1,2,4-Trichlorobenzene	625/8270	0.05	<2	<2	<2	<2	ND	VA
Naphthalene	625/8270	0.05	<2	<2	<2	<2	ND	VA
4-Chloroaniline	625/8270	0.05	<20	<20	<20	<20	ND	
Hexachlorobutadiene	625/8270	0.5	<2	<2	<2	<2	ND	
2-Methylnaphthalene	625/8270		<2	<2	<2	<2	ND	VA
4-Chloro-3-methylphenol	625/8270		<2	<2	<2	<2	ND	
Hexachlorocyclopentadiene	625/8270		<2.5	<2.5	<2.5	<2.5	ND	240
2,4,6-Trichlorophenol	625/8270	0.10	<2	<2	<2	<2	ND	2.1
2,4,5-Trichlorophenol	625/8270		<2	<2	<2	<2	ND	
2-Chloronaphthalene	625/8270	0.10	<2	<2	<2	<2	ND	1,700
2-Nitroaniline	625/8270		<5	<5	<5	<5	ND	
Acenaphthylene	625/8270	0.10	<2	<2	<2	<2	ND	VA
Dimethylphthalate	625/8270	0.10	<2	<2	<2	<2	ND	313,000
2,6-Dinitrotoluene	625/8270	0.05	<2	<2	<2	<2	ND	VA
Acenaphthene	625/8270	0.10	<2	<2	<2	<2	ND	1,200
3-Nitroaniline	625/8270	0.10	<10	<10	<10	<10	ND	
2,4-Dinitrophenol	625/8270	0.10	<5	<5	<5	<5	ND	70
Dibenzofuran	625/8270	0.10	<2	<2	<2	<2	ND	
2,4-Dinitrotoluene	625/8270	0.05	<2	<2	<2	<2	ND	9.1(0.11)
4-Nitrophenol	625/8270	0.05	<5	<5	<5	<5	ND	VA
Fluorene	625/8270	0.50	<2	<2	<2	<2	ND	1,300
4-Chlorophenyl-phenylether	625/8270	1.00	<2	<2	<2	<2	ND	VA
Diethylphthalate	625/8270		<2	<2	<2	<2	ND	23,000
4-Nitroaniline	625/8270	<0.5-1.0	<10	<10	<10	<10	ND	
N-Nitrosodiphenylamine	625/8270		<2	<2	<2	<2	ND	5
4,6-Dinitro-2-methylphenol	625/8270		<2	<2	<2	<2	ND	13.4
4-Bromophenyl-phenylether	625/8270		<2	<2	<2	<2	ND	VA
Hexachlorobenzene	625/8270		<2	<2	<2	<2	ND	0.00075
Pentachlorophenol	625/8270		<5	<5	<5	<5	ND	7.9(0.28)
Phenanthrene	625/8270		<2	<2	<2	<2	ND	VA
Anthracene	625/8270		<2	<2	<2	<2	ND	9,600
Carbazole	625/8270		<5	<5	<5	<5	ND	
Di-n-butylphthalate	625/8270	0.1	<2	<2	<2	<2	ND	2,700
Fluoranthene	625/8270	0.1	<2	<2	<2	<2	ND	300
Pyrene	625/8270	0.05	<2	<2	<2	<2	ND	960
Benzidine	625/8270	0.05	<50	<50	<50	<50	ND	0.00012
Butylbenzylphthalate	625/8270		<2	<2	<2	<2	ND	3,000
Benzo(a)anthracene	625/8270		<2	<2	<2	<2	ND	0.0044
Chrysene	625/8270	0.02	<2	<2	<2	<2	ND	0.0044
3,3-Dichlorobenzidine	625/8270	0.1	<10	<10	<10	<10	ND	0.04
Bis(2-Ethylhexyl)phthalate	625/8270	1.0	3.7	<2.5	4	<2.5	2.55	1.8
Di-n-octylphthalate	625/8270	0.05	<2.5	<2.5	<2.5	<2.5	ND	VA
Benzo(b)fluoranthene	625/8270	20	<2	<2	<2	<2	ND	0.0044
Benzo(k)fluoranthene	625/8270	20	<2	<2	<2	<2	ND	0.0044
Benzo(a)pyrene	625/8270	100	<2	<2	<2	<2	ND	0.0044
Indeno[1,2,3-cd]pyrene	625/8270	10	<2	<2	<2	<2	ND	0.0044
Dibenz[a,h]anthracene	625/8270	0.50	<2	<2	<2	<2	ND	0.0044
Benzo[g,h,i]perylene	625/8270	0.10	<2	<2	<2	<2	ND	VA

ANALYTE	EPA Method	Reporting Limits (as noted)	POND 2					Criterion Approx. (as noted)
			2-A	2-B	2-C	2-D	Average	
Pesticides (ug/L)								
Azinphosmethyl (Guthion)	8141A		<1.0	<1.0	<1.0	<1.0	ND	
Bolstar	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Chloropyrifos (Dursban)	8141A		<0.05	<0.05	<0.05	<0.05	ND	0.0056
Coumaphos	8141A		<0.20	<0.20	<0.20	<0.20	ND	
Def/Morphos	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Demeton (total)	8141A		<0.20	<0.20	<0.20	<0.20	ND	
Diazinon	8141A		<0.05	<0.05	<0.05	<0.05	ND	0.05
Dichlorvos	8141A		<0.20	<0.20	<0.20	<0.20	ND	
Dimethoate	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Disulfoton	8141A		<0.10	<0.10	<0.10	<0.10	ND	
EPN	8141A		<0.10	<0.10	<0.10	<0.10	ND	
EPTC	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Ethion	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Ethoprop	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Fensulfothion	8141A		<0.50	<0.50	<0.50	<0.50	ND	
Fenthion	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Malathion	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Mevinphos	8141A		<0.70	<0.70	<0.70	<0.70	ND	
Naled	8141A		<0.50	<0.50	<0.50	<0.50	ND	
Parathion, ethyl	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Parathion, methyl	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Phorate	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Prowl (pendimethalin)	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Ronnel	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Stirophos	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Sulfotep	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Tokuthion	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Trichloronate	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Trifuralin	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Pesticides (ug/L)								
Aldrin	608/8081	0.05	<0.05	<0.05	<0.05	<0.05	ND	0.00013
alpha-BHC	608/8081	0.05	<0.05	<0.05	<0.05	<0.05	ND	0.0039
beta-BHC	608/8081	0.05	<0.05	<0.05	<0.05	<0.05	ND	0.014
gamma-BHC	608/8081	0.05	<0.05	<0.05	<0.05	<0.05	ND	0.019
delta-BHC	608/8081	0.05	<0.05	<0.05	<0.05	<0.05	ND	VA
Chlordane	608/8081	0.5	<0.50	<0.50	<0.50	<0.50	ND	0.00057
4,4-DDD	608/8081	0.1	<0.10	<0.10	<0.10	<0.10	ND	0.00083
4,4-DDE	608/8081	0.1	<0.10	<0.10	<0.10	<0.10	ND	0.00059
4,4-DDT	608/8081	0.1	<0.10	<0.10	<0.10	<0.10	ND	0.00059
Dieldrin	608/8081	0.1	<0.10	<0.10	<0.10	<0.10	ND	0.00014
Endosulfan I	608/8081	0.05	<0.05	<0.05	<0.05	<0.05	ND	0.0087
Endosulfan II	608/8081	0.1	<0.10	<0.10	<0.10	<0.10	ND	0.0087
Endosulfan Sulfate	608/8081	0.1	<0.10	<0.10	<0.10	<0.10	ND	110
Endrin	608/8081	0.1	<0.10	<0.10	<0.10	<0.10	ND	0.0023
Endrin Aldehyde	608/8081	0.1	<0.10	<0.10	<0.10	<0.10	ND	0.76
Heptachlor	608/8081	0.05	<0.05	<0.05	<0.05	<0.05	ND	0.00021
Heptachlor Epoxide	608/8081	0.05	<0.05	<0.05	<0.05	<0.05	ND	0.0001
Methoxychlor	608/8081	0.5	<0.50	<0.50	<0.50	<0.50	ND	
Toxaphene	608/8081	1	<1.00	<1.00	<1.00	<1.00	ND	0.00073
PCB's (ug/L)								
Arochlor 1016	EPA 608/808	0.5	<0.5	<0.5	<0.5	<0.5	ND	0.00017
Arochlor 1221	EPA 608/808	0.5	<0.5	<0.5	<0.5	<0.5	ND	0.00017
Arochlor 1232	EPA 608/808	0.5	<0.5	<0.5	<0.5	<0.5	ND	

POND 2A

Water Chemistry Results Napa-Sonoma Marsh Restoration Project DRAFT - Incomplete as of 01/08/02

ANALYTE	EPA Method	Report Limits (as noted)	POND 2A			Criterion Approx. (as noted)	ANALYTE	EPA Method	Report Limits (as noted)	POND 2A			Criterion Approx. (as noted)
			2A-A	2B-B	Average					2A-A	2A-B	Average	
Total metals (mg/L)						Pesticides (ug/L)							
Arsenic	3020/6020	0.006	<0.006	<0.006	ND	0.036	Azinphosmethyl (Guthion)	8141A	<1.0	<1.0	ND	0.0056	
Cadmium	3020/6020	0.005	<0.005	<0.005	ND	0.0022	Bolstar	8141A	<0.10	<0.10	ND		
Chromium	3020/6020	0.01	<0.01	<0.01	ND	0.18	Chloropyrifos (Dursban)	8141A	<0.05	<0.05	ND		
Copper	3020/6020	0.01	0.019	0.02	0.0195	0.0031	Coumaphos	8141A	<0.20	<0.20	ND		
Lead	3020/6020	0.002	<0.002	<0.002	ND	0.0025	Def/Morphos	8141A	<0.10	<0.10	ND		
Nickel	3020/6020	0.01	<0.01	<0.01	ND	0.0071	Demeton (total)	8141A	<0.20	<0.20	ND		
Selenium	3020/6020	0.02	<0.02	<0.02	ND	0.005	Diazinon	8141A	<0.05	<0.05	ND		
Silver	3020/6020	0.005	<0.005	<0.005	ND	0.0012	Dichlorvos	8141A	<0.20	<0.20	ND		
Zinc	3020/6020	0.02	<0.02	<0.02	ND	0.058	Dimethoate	8141A	<0.10	<0.10	ND		
Mercury	3020/6020	0.0001	<0.0001	<0.0001	ND	2.5E-05	Disulfoton	8141A	<0.10	<0.10	ND		
Sodium	3020/6020	100	7340	7480	7410		EPN	8141A	<0.10	<0.10	ND		
Potassium	3020/6020	10	258	248	253		EPTC	8141A	<0.10	<0.10	ND		
Dissolved Metals (mg/L)						Pesticides (ug/L)							
Arsenic	3020/6020	0.006					Ethion	8141A	<0.10	<0.10	ND	0.05	
Cadmium	3020/6020	0.005					Ethoprop	8141A	<0.10	<0.10	ND		
Chromium	3020/6020	0.01					Fensulfothion	8141A	<0.50	<0.50	ND		
Copper	3020/6020	0.01					Fenthion	8141A	<0.10	<0.10	ND		
Lead	3020/6020	0.002					Malathion	8141A	<0.10	<0.10	ND		
Nickel	3020/6020	0.01					Mevinphos	8141A	<0.70	<0.70	ND		
Selenium	3020/6020	0.02					Naled	8141A	<0.50	<0.50	ND		
Silver	3020/6020	0.005					Parathion, ethyl	8141A	<0.10	<0.10	ND		
Zinc	3020/6020	0.02					Parathion, methyl	8141A	<0.10	<0.10	ND		
Mercury	7470	0.0001					Phorate	8141A	<0.10	<0.10	ND		
Sodium	3010/6010	500					Prowl (pendimethalin)	8141A	<0.10	<0.10	ND		
Potassium	3010/6010	100					Ronnel	8141A	<0.10	<0.10	ND		
Semi-Volatile Organics (ug/L)						Pesticides (ug/L)							
Pyridine	625/8270		<10	<10	ND		Stirophos	8141A	<0.10	<0.10	ND	0.00013	
Bis(2-Chloroethyl) ether	625/8270		<2	<2	ND	1.4(0.031)	Sulfotep	8141A	<0.10	<0.10	ND		
2-Chlorophenol	625/8270		<2	<2	ND	120	Tokuthion	8141A	<0.10	<0.10	ND		
Phenol	625/8270		<2	<2	ND	21,000	Trichloronate	8141A	<0.10	<0.10	ND		
1,3-Dichlorobenzene	625/8270		<2	<2	ND	400	Trifuralin	8141A	<0.10	<0.10	ND		
1,4-Dichlorobenzene	625/8270		<2	<2	ND	400	Pesticides (ug/L)						
1,2-Dichlorobenzene	625/8270		<2	<2	ND	2700	Aldrin	608/8081	0.05	<0.05	<0.05		ND
Benzyl alcohol	625/8270		<4	<4	ND		alpha-BHC	608/8081	0.05	<0.05	<0.05		ND
Bis(2-chloroisopropyl)ether	625/8270		<2	<2	ND	1,400	beta-BHC	608/8081	0.05	<0.05	<0.05		ND
2-Methylphenol	625/8270		<2	<2	ND		gamma-BHC	608/8081	0.05	<0.05	<0.05		ND
Hexachloroethane	625/8270		<2	<2	ND		delta-BHC	608/8081	0.05	<0.05	<0.05		ND
N-Nitroso-di-n-propylamine	625/8270		<2	<2	ND	0.005	Chlordane	608/8081	0.5	<0.50	<0.50		ND
4(3)-Methylphenol	625/8270		<2	<2	ND	VA	4,4-DDD	608/8081	0.1	<0.10	<0.10	ND	
Nitrobenzene	625/8270		<2	<2	ND	17	4,4-DDE	608/8081	0.1	<0.10	<0.10	ND	
Isophorone	625/8270		<2	<2	ND	8.4	4,4-DDT	608/8081	0.1	<0.10	<0.10	ND	
2-Nitrophenol	625/8270		<4	<4	ND	VA	Dieldrin	608/8081	0.1	<0.10	<0.10	ND	
2,4-Dimethylphenol	625/8270	<0.5-1.0	<2.5	<2.5	ND	540	Endosulfan I	608/8081	0.05	<0.05	<0.05	ND	
Bis(2-Chloroethoxy)methane	625/8270	0.05	<2	<2	ND	VA	Endosulfan II	608/8081	0.1	<0.10	<0.10	ND	
2,4-Dichlorophenol	625/8270	0.05	<2	<2	ND	93	Endosulfan Sulfate	608/8081	0.1	<0.10	<0.10	ND	
1,2,4-Trichlorobenzene	625/8270	0.05	<2	<2	ND	VA	Endrin	608/8081	0.1	<0.10	<0.10	ND	
Napthalene	625/8270	0.05	<2	<2	ND	VA	Endrin Aldehyde	608/8081	0.1	<0.10	<0.10	ND	
4-Chloroaniline	625/8270	0.05	<20	<20	ND		Heptachlor	608/8081	0.05	<0.05	<0.05	ND	
Hexachlorobutadiene	625/8270	0.5	<2	<2	ND		Heptachlor Epoxide	608/8081	0.05	<0.05	<0.05	ND	
2-Methylnapthalene	625/8270		<2	<2	ND		Methoxychlor	608/8081	0.5	<0.50	<0.50	ND	
4-Chloro-3-methylphenol	625/8270		<2	<2	ND	VA	Toxaphene	608/8081	1	<1.00	<1.00	ND	
Hexachlorocyclopentadiene	625/8270		<2.5	<2.5	ND	240	PCB's (ug/L)						
2,4,6-Trichlorophenol	625/8270	0.10	<2	<2	ND	2.1	Arochlor 1016	EPA 608/8081	0.5	<0.5	<0.5	ND	
2,4,5-Trichlorophenol	625/8270		<2	<2	ND		Arochlor 1221	EPA 608/8081	0.5	<0.5	<0.5	ND	
2-Chloronapthalene	625/8270	0.10	<2	<2	ND	1,700	Arochlor 1232	EPA 608/8081	0.5	<0.5	<0.5	ND	
2-Nitroalanine	625/8270		<5	<5	ND		Arochlor 1242	EPA 608/8081	0.5	<0.5	<0.5	ND	
Acenaphthylene	625/8270	0.10	<2	<2	ND	VA	Arochlor 1248	EPA 608/8081	0.5	<0.5	<0.5	ND	
Dimethylphthalate	625/8270	0.10	<2	<2	ND	313,000	Arochlor 1254	EPA 608/8081	0.5	<0.5	<0.5	ND	
2,6-Dinitrotoluene	625/8270	0.05	<2	<2	ND	VA	Arochlor 1260	EPA 608/8081	0.5	<0.5	<0.5	ND	
Acenaphthene	625/8270	0.10	<2	<2	ND	1,200	Cyanide (mg/L)						
3-Nitroaniline	625/8270	0.10	<10	<10	ND		CM 4500 CN	0.02	< 0.02	< 0.02	ND	0.001	
2,4-Dinitrophenol	625/8270	0.10	<5	<5	ND	70	Ammonia as N (mg/L)						
Dibenzofuran	625/8270	0.10	<2	<2	ND		SM 4500 NH ₃	0.1	0.4	0.4	0.4		
2,4-Dinitrotoluene	625/8270	0.05	<2	<2	ND	9.1(0.11)	Nitrate as N (mg/L)						
4-Nitrophenol	625/8270	0.05	<5	<5	ND	VA	SM 4500 NO ₃	0.1	0.3	0.3	0.3		
Fluorene	625/8270	0.50	<2	<2	ND	1,300	Total Phosphorous (mg/L)						
4-Chlorophenyl-phenylether	625/8270	1.00	<2	<2	ND	VA	SM 4500 P	0.05	<0.05	<0.05	ND		
Diethylphthalate	625/8270		<2	<2	ND	23,000	pH						
4-Nitroaniline	625/8270	<0.5-1.0	<10	<10	ND		EPA 150.1	0.1	8	7.8	7.9		
N-Nitrosodiphenylamine	625/8270		<2	<2	ND	5	BOD (mg/L)						
4,6-Dintro-2-methylphenol	625/8270		<2	<2	ND	13.4	SM 5210 B	1	1.6	1.4	1.5		
4-Bromophenyl-phenylether	625/8270		<2	<2	ND	VA	Turbidity NTU						
Hexachlorobenzene	625/8270		<2	<2	ND	0.00075	SM2130 B	0.05	7.6	6.88	7.24		
Pentachlorophenol	625/8270		<5	<5	ND	7.9(0.28)	TSS (mg/L)						
Phenanthrene	625/8270		<2	<2	ND	VA	SM 2540 D	20	<20	<20	ND		
Anthracene	625/8270		<2	<2	ND	9,600	TDS (mg/L)						
Carbazole	625/8270		<5	<5	ND		SM 2540 C	20	22100	21600	21850		
Di-n-butylphthalate	625/8270	0.1	<2	<2	ND	2,700	Chloride (mg/L)						
Fluoranthene	625/8270	0.1	<2	<2	ND	300	SM 2340B	100	12000	12000	12000		
Pyrene	625/8270	0.05	<2	<2	ND	960	Hardness (mg CaCO₃/L)						
Benzidine	625/8270	0.05	<50	<50	ND	0.00012	SM 2340B	10	4420	4210	4315		
Butylbenzylphthalate	625/8270		<2	<2	ND	3,000	TKN (mg/L)						
Benzo(a)anthracene	625/8270		<2	<2	ND	0.0044	SM 4500 N	0.5	1.3	1.3	1.3		
Chrysene	625/8270	0.02	<2	<2	ND	0.0044	Organic N (mg/L)						
3,3-Dichlorobenzidine	625/8270	0.1	<10	<10	ND	0.04	SM 4500 N	0.1	0.9	0.9	0.9		
Bis(2-Ethylhexyl)phthalate	625/8270	1.0	<2.5	<2.5	ND	1.8	Fecal Coliform (Total) MPN/100mL						
Di-n-octylphthalate	625/8270	0.05	<2.5	<2.5	ND	VA			130	80	105		
Benzo(b)fluoranthene	625/8270	20	<2	<2	ND	0.0044							
Benzo(k)fluoranthene	625/8270	20	<2	<2	ND	0.0044							
Benzo(a)pyrene	625/8270	100	<2	<2	ND	0.0044							
Indeno[1,2,3-cd]pyrene	625/8270	10	<2	<2	ND	0.0044							
Dibenz[a,h]anthracene	625/8270	0.50	<2	<2	ND	0.0044							
Benzo[g,h,i]perylene	625/8270	0.10	<2	<2	ND	VA							

POND 3

Water Chemistry Results Napa-Sonoma Marsh Restoration Project DRAFT - Incomplete as of 01/08/02

ANALYTE	EPA Method	Reporting Limits (as noted)	POND 3					Criterion Approx. (as noted)	
			3-A	3-B	3-C	3-D	DUP		Average
Total metals (mg/L)									
Arsenic	3020/6020	0.006	< 0.006	< 0.024	< 0.006			ND	0.036
Cadmium	3020/6020	0.005	< 0.005	< 0.005	< 0.005			ND	0.0022
Chromium	3020/6020	0.01	< 0.01	< 0.01	< 0.01			ND	0.18
Copper	3020/6020	0.01	0.056	0.078	0.025			0.053	0.0031
Lead	3020/6020	0.002	< 0.002	< 0.002	< 0.002			ND	0.0025
Nickel	3020/6020	0.01	< 0.01	< 0.01	< 0.01			ND	0.0071
Selenium	3020/6020	0.02	< 0.08	< 0.08	< 0.02			ND	0.005
Silver	3020/6020	0.005	< 0.005	< 0.005	< 0.005			ND	0.0012
Zinc	3020/6020	0.02	0.063	0.085	0.028			0.0587	0.058
Mercury	3020/6020	0.0001	< 0.0001	< 0.0001	< 0.0001			ND	2.5E-05
Antimony	3020/6020								0.014
Beryllium	3020/6020								VA
Thallium	3020/6020								0.0017
Sodium	3010/6010	100	20,800	27,200	19,800	24,000	26,600	23,680	
Potassium	3010/6010	10	777	944	735			819	
Dissolved Metals (mg/L)									
Arsenic	3020/6020	0.006			<0.006			ND	
Cadmium	3020/6020	0.005			<0.005			ND	
Chromium	3020/6020	0.01			<0.010			ND	
Copper	3020/6020	0.01			0.013			0.013	
Lead	3020/6020	0.002			<0.002			ND	
Nickel	3020/6020	0.01			0.013			0.013	
Selenium	3020/6020	0.02			<0.20			ND	
Silver	3020/6020	0.005			<0.005			ND	
Zinc	3020/6020	0.02			0.067			0.067	
Mercury	7470	0.0001			0.0002			0.0002	
Antimony	3020/6020				<0.005			ND	
Beryllium	3020/6020				<0.005			ND	
Thallium	3020/6020				<0.005			ND	
Sodium	3010/6010	500			24,000			24,000	
Potassium	3010/6010	100			ND			ND	
Cyanide (mg/L)	CM 4500 CN	0.02	<0.02	<0.02	<0.02			ND	0.001
Hexavalent Chromium (mg/L)	SM3500 CR				<0.02			ND	0.011
Ammonia as N (mg/L)	SM 4500 NH ₃	0.1	0.23	0.12	0.21	0.3	0.3	0.232	
Nitrate as N (mg/L)	SM 4500 NO ₃	0.1	2.2	1.5	1.5	2.7		1.975	
Nitrite as N (mg/L)	SM 4500 P E	0.05	0.19	0.19	0.13			0.17	
Total Phosphorus (mg/L)			0.10	0.14	0.11			0.117	
pH	EPA 150.1	0.1	8.34	8.39	8.3	8.3		8.333	
BOD (mg/L)	SM 5210 B	1	22	38	26			28.667	
Turbidity NTU	SM 2540 D	20	39.1	63.0	33.7	102		59.45	
TSS (mg/L)	SM 2540 C	20	106	178	86	300		167.5	
TDS (mg/L)		100	61,700	76,500	47,600	80,100		66.475	
Chloride (mg/L)	SM 2340B	10	35,600	42,400	34,000	43,600		38,900	
Hardness (mg CaCO ₃ /L)	SM 4500NC	0.5				14,600		14,600	
TKN (mg/L)	SM 4500 N	0.1	12.7	14.7	9.7			12.367	
Organic N (mg/L)	SM 4500 N		12.5	14.6	9.5	2.8		9.85	
Asbestos MF/L: Str									
Asbestos MF/L: >5 um									7000000
Asbestos MF/L: >10 um									
Fecal Coliform (Total) MPN/100mL			<2	<2	<2	280		94	
Volatiles (ug/L)		<2-20							
Acetone	624/8260				<25.0	<25.0		ND	
Acetonitrile	624/8260				<2.0	<2.0		ND	
Acrolein (Propenal)	624/8260				<100.0	<100.0		ND	320
Acrylonitrile	624/8260				<1.0	<1.0		ND	0.059
Allyl chloride	624/8260				<1.0	<1.0		ND	
Benzene	624/8260				<1.0	<1.0		ND	1.2
Bromobenzene	624/8260				<1.0	<1.0		ND	
Bromochloromethane	624/8260				<1.0	<1.0		ND	
Bromodichloromethane	624/8260				<1.0	<1.0		ND	0.56
Bromoform	624/8260				<1.0	<1.0		ND	4.3
Bromomethane	624/8260				<2.0	<2.0		ND	48
2-Butanone (MEK)	624/8260				<25.0	<25.0		ND	
n-Butylbenzene	624/8260				<1.0	<1.0		ND	
sec-Butylbenzene	624/8260				<1.0	<1.0		ND	
tert-butylbenzene	624/8260				<1.0	<1.0		ND	
Carbon disulfide	624/8260				<1.0	<1.0		ND	
Carbon tetrachloride	624/8260				<2.0	<2.0		ND	0.25
Chlorobenzene	624/8260				<1.0	<1.0		ND	680
Chlorodichloromethane	624/8260				<1.0	<1.0		ND	34(0.401)
Chloroethane	624/8260				<2.0	<2.0		ND	VA
2-Chloroethyl vinyl ether	624/8260				<2.0	<2.0		ND	VA
Chloroform	624/8260				<1.0	<1.0		ND	VA
Chloromethane	624/8260				<2.0	<2.0		ND	VA
2-Chlorotoluene	624/8260				<1.0	<1.0		ND	
4-Chlorotoluene	624/8260				<1.0	<1.0		ND	
1,2-Dibromo-3-chloropropane	624/8260				<2.0	<2.0		ND	
1,2-Dibromoethane (EDB)	624/8260				<1.0	<1.0		ND	
Dibromomethane	624/8260				<1.0	<1.0		ND	
1,2-Dichlorobenzene	624/8260				<1.0	<1.0		ND	2,700
1,3-Dichlorobenzene	624/8260				<1.0	<1.0		ND	400
1,4-Dichlorobenzene	624/8260				<1.0	<1.0		ND	400
trans-1,4-Dichloro-2-butene	624/8260				<2.0	<2.0		ND	
Dichlorodifluoromethane	624/8260				<2.0	<2.0		ND	
1,1-Dichloroethane	624/8260				<1.0	<1.0		ND	VA
1,2-Dichloroethane	624/8260				<1.0	<1.0		ND	0.38
1,1,1-Dichloroethane	624/8260				<1.0	<1.0		ND	3.2(0.057)
cis-1,2-Dichloroethane	624/8260				<1.0	<1.0		ND	
trans-1,2-Dichloroethane	624/8260				<1.0	<1.0		ND	700
1,2-Dichloropropane	624/8260				<1.0	<1.0		ND	0.52
1,3-Dichloropropane	624/8260				<1.0	<1.0		ND	10
2,2-Dichloropropane	624/8260				<1.0	<1.0		ND	
1,1-Dichloropropene	624/8260				<1.0	<1.0		ND	
cis-1,3-Dichloropropene	624/8260				<1.0	<1.0		ND	
trans-1,3-Dichloropropene	624/8260				<2.0	<2.0		ND	
Diethyl ether	624/8260				<1.0	<1.0		ND	
Ethylbenzene	624/8260				<1.0	<1.0		ND	3,100
Hexachlorobutadiene	624/8260				<1.0	<1.0		ND	50(0.44)
Hexachloroethane	624/8260				<1.0	<1.0		ND	8.9(1.9)
2-Hexanone	624/8260				<5.0	<5.0		ND	
Iodomethane	624/8260				<1.0	<1.0		ND	
Isopropylbenzene	624/8260				<1.0	<1.0		ND	
Methylene chloride	624/8260				<5.0	<5.0		ND	4.7
Methyl tert-butyl ether	624/8260				<1.0	<1.0		ND	
4-Methyl-2-pentanone (MIBK)	624/8260				<25.0	<25.0		ND	
Naphthalene	624/8260				<2.0	<2.0		ND	VA
n-Propylbenzene	624/8260				<1.0	<1.0		ND	
Styrene	624/8260				<1.0	<1.0		ND	
1,1,1,2-Tetrachloroethane	624/8260				<2.0	<2.0		ND	11(0.17)
1,1,2,2-Tetrachloroethane	624/8260				<1.0	<1.0		ND	8.85(0.8)
Toluene	624/8260				<1.0	<1.0		ND	6,800
1,2,3-Trichlorobenzene	624/8260				<1.0	<1.0		ND	
1,2,4-Trichlorobenzene	624/8260				<1.0	<1.0		ND	VA
1,1,1-Trichloroethane	624/8260				<2.0	<2.0		ND	VA
1,1,2-Trichloroethane	624/8260				<1.0	<1.0		ND	42(0.60)
Trichloroethane	624/8260				<1.0	<1.0		ND	2.7
Trichlorofluoromethane	624/8260				<2.0	<2.0		ND	
1,2,3-Trichloropropane	624/8260				<2.0	<2.0		ND	
1,1,2-Trichlorotrifluoroethane	624/8260				<5.0	<5.0		ND	
1,2,4-Trimethylbenzene	624/8260				<1.0	<1.0		ND	
1,3,5-Trimethylbenzene	624/8260				<1.0	<1.0		ND	
Vinyl acetate	624/8260				<5.0	<5.0		ND	
Vinyl chloride	624/8260				<2.0	<2.0		ND	2(525)
m,p-Xylene	624/8260				<2.0	<2.0		ND	
o-Xylene	624/8260				<1.0	<1.0		ND	

ANALYTE	EPA Method	Reporting Limits (as noted)	POND 3					Criterion Approx. (as noted)	
			3-A	3-B	3-C	3-D	DUP		Average
Semi-Volatile Organics (ug/L)									
Pyridine	625/8270		<10	<10	<10			ND	
Bis(2-Chloroethyl) ether	625/8270		<2	<2	<2			ND	1.4(0.031)
2-Chlorophenol	625/8270		<2	<2	<2			ND	120
Phenol	625/8270		<2	<2	<2			ND	21,000
1,3-Dichlorobenzene	625/8270		<2	<2	<2			ND	400
1,4-Dichlorobenzene	625/8270		<2	<2	<2			ND	400
1,2-Dichlorobenzene	625/8270		<2	<2	<2			ND	2700
Benzyl alcohol	625/8270		<4	<4	<4			ND	
Bis(2-chloroisopropyl)ether	625/8270		<2	<2	<2			ND	1,400
2-Methylphenol	625/8270		<2	<2	<2			ND	
Hexachloroethane	625/8270		<2	<2	<2			ND	
N-Nitroso-di-n-propylamine	625/8270		<2	<2	<2			ND	0.005
4/3-Methylphenol	625/8270		<2	<2	<2			ND	VA
Nitrobenzene	625/8270		<2	<2	<2			ND	17
Isophorone	625/8270		<2	<2	<2			ND	8.4
2-Nitrophenol	625/8270		<4	<4	<4			ND	VA
2,4-Dimethylphenol	625/8270	<0.5-1.0	<2.5	<2.5	<2.5			ND	540
Bis(2-Chloroethoxy)methane	625/8270	0.05	<2	<2	<2			ND	VA
2,4-Dichlorophenol	625/8270	0.05	<2	<2	<2			ND	93
1,2,4-Trichlorobenzene	625/8270	0.05	<2	<2	<2			ND	VA
Napthalene	625/8270	0.05	<2	<2	<2			ND	VA
4-Chloroaniline	625/8270	0.05	<20	<20	<20			ND	
Hexachlorobutadiene	625/8270	0.5	<2	<2	<2			ND	
2-Methylnapthalene	625/8270		<2	<2	<2			ND	
4-Chloro-3-methylphenol	625/8270		<2	<2	<2			ND	VA
Hexachlorocyclopentadiene	625/8270		<2.5	<2.5	<2.5			ND	240
2,4,6-Trichlorophenol	62								

POND 4
Water Chemistry Results
Napa-Sonoma Marsh Restoration Project
DRAFT - Incomplete as of 01/08/02

ANALYTE	EPA Method	Report Limits (as noted)	POND 4					Criterion Approx. (as noted)
			4-A	4-B	4-C	4-D	Average	
Total metals (mg/L)								
Arsenic	3020/6020	0.006	<0.30	<0.24	<0.24	<0.30	ND	0.036
Cadmium	3020/6020	0.005	<0.25	<0.20	<0.20	<0.25	ND	0.0022
Chromium	3020/6020	0.01	<0.5	<0.50	<0.50	<0.50	ND	0.18
Copper	3020/6020	0.01	0.5	<0.40	<0.40	<0.50	0.2875	0.0031
Lead	3020/6020	0.002	<0.10	<0.08	<0.08	<0.10	ND	0.0025
Nickel	3020/6020	0.01	<0.50	<0.40	<0.40	<0.50	ND	0.0071
Selenium	3020/6020	0.02	<1.00	<0.80	<0.80	<1.0	ND	0.005
Silver	3020/6020	0.005	<0.25	<0.20	<0.20	<0.25	ND	0.0012
Zinc	3020/6020	0.02	1.1	<0.80	0.9	<1.0	0.725	0.058
Mercury	3020/6020	0.0001	<0.0005	<0.0001	<0.0001	<0.0005	ND	2.5E-05
Sodium	3020/6020	100	101,000	89,200	82,400	105,000	94,400	
Potassium	3020/6020	10	5,500	5,300	6,910	4,890	5,650	
Dissolved Metals (mg/L)								
Arsenic	3020/6020	0.006		<0.24	<0.24		ND	
Cadmium	3020/6020	0.005		<0.2	<0.2		ND	
Chromium	3020/6020	0.01		<0.5	<0.5		ND	
Copper	3020/6020	0.01		<0.4	<0.4		ND	
Lead	3020/6020	0.002		<0.08	<0.08		ND	
Nickel	3020/6020	0.01		<0.4	<0.4		ND	
Selenium	3020/6020	0.02		<0.8	<0.8		ND	
Silver	3020/6020	0.005		<0.2	<0.2		ND	
Zinc	3020/6020	0.02		<0.8	0.9		ND	
Mercury	7470	0.0001		<0.0001	<0.0001		ND	
Sodium	3010/6010	500						
Potassium	3010/6010	100						
Semi-Volatile Organics (ug/L)								
Pyridine	625/8270		<10	<10	<10	<10	ND	
Bis(2-Chloroethyl) ether	625/8270		<2	<2	<2	<2	ND	1.4(0.031)
2-Chlorophenol	625/8270		<2	<2	<2	<2	ND	120
Phenol	625/8270		<2	<2	<2	<2	ND	21,000
1,3-Dichlorobenzene	625/8270		<2	<2	<2	<2	ND	400
1,4-Dichlorobenzene	625/8270		<2	<2	<2	<2	ND	400
1,2-Dichlorobenzene	625/8270		<2	<2	<2	<2	ND	2700
Benzyl alcohol	625/8270		<4	<4	<4	<4	ND	
Bis(2-chloroisopropyl)ether	625/8270		<2	<2	<2	<2	ND	1,400
2-Methylphenol	625/8270		<2	<2	<2	<2	ND	
Hexachloroethane	625/8270		<2	<2	<2	<2	ND	
N-Nitroso-di-n-propylamine	625/8270		<2	<2	<2	<2	ND	0.005
4(3)-Methylphenol	625/8270		<2	<2	<2	<2	ND	VA
Nitrobenzene	625/8270		<2	<2	<2	<2	ND	17
Isophorone	625/8270		<2	<2	<2	<2	ND	8.4
2-Nitrophenol	625/8270		<4	<4	<4	<4	ND	VA
2,4-Dimethylphenol	625/8270	<0.5-1.0	<2.5	<2.5	<2.5	<2.5	ND	540
Bis(2-Chloroethoxy)methane	625/8270	0.05	<2	<2	<2	<2	ND	VA
2,4-Dichlorophenol	625/8270	0.05	<2	<2	<2	<2	ND	93
1,2,4-Trichlorobenzene	625/8270	0.05	<2	<2	<2	<2	ND	VA
Napthalene	625/8270	0.05	<2	<2	<2	<2	ND	VA
4-Chloroaniline	625/8270	0.05	<20	<20	<20	<20	ND	
Hexachlorobutadiene	625/8270	0.5	<2	<2	<2	<2	ND	
2-Methylnapthalene	625/8270		<2	<2	<2	<2	ND	VA
4-Chloro-3-methylphenol	625/8270		<2	<2	<2	<2	ND	240
Hexachlorocyclopentadiene	625/8270		<2.5	<2.5	<2.5	<2.5	ND	
2,4,6-Trichlorophenol	625/8270	0.10	<2	<2	<2	<2	ND	2.1
2,4,5-Trichlorophenol	625/8270		<2	<2	<2	<2	ND	
2-Chloronapthalene	625/8270	0.10	<2	<2	<2	<2	ND	1,700
2-Nitroaniline	625/8270		<5	<5	<5	<5	ND	
Acenaphthylene	625/8270	0.10	<2	<2	<2	<2	ND	VA
Dimethylphthalate	625/8270	0.10	<2	<2	<2	<2	ND	313,000
2,6-Dinitrotoluene	625/8270	0.05	<2	<2	<2	<2	ND	VA
Acenaphthene	625/8270	0.10	<2	<2	<2	<2	ND	1,200
3-Nitroaniline	625/8270	0.10	<10	<10	<10	<10	ND	
2,4-Dinitrophenol	625/8270	0.10	<5	<5	<5	<5	ND	70
Dibenzofuran	625/8270	0.10	<2	<2	<2	<2	ND	
2,4-Dinitrotoluene	625/8270	0.05	<2	<2	<2	<2	ND	9.1(0.11)
4-Nitrophenol	625/8270	0.05	<5	<5	<5	<5	ND	VA
Fluorene	625/8270	0.50	<2	<2	<2	<2	ND	1,300
4-Chlorophenyl-phenylether	625/8270	1.00	<2	<2	<2	<2	ND	VA
Diethylphthalate	625/8270		<2	<2	<2	<2	ND	23,000
4-Nitroaniline	625/8270	<0.5-1.0	<10	<10	<10	<10	ND	
N-Nitrosodiphenylamine	625/8270		<2	<2	<2	<2	ND	5
4,6-Dinitro-2-methylphenol	625/8270		<2	<2	<2	<2	ND	13.4
4-Bromophenyl-phenylether	625/8270		<2	<2	<2	<2	ND	VA
Hexachlorobenzene	625/8270		<2	<2	<2	<2	ND	0.00075
Pentachlorophenol	625/8270		<5	<5	<5	<5	ND	7.9(0.28)
Phenanthrene	625/8270		<2	<2	<2	<2	ND	VA
Anthracene	625/8270		<2	<2	<2	<2	ND	9,600
Carbazole	625/8270		<5	<5	<5	<5	ND	
Di-n-butylphthalate	625/8270	0.1	<2	<2	<2	<2	ND	2,700
Fluoranthene	625/8270	0.1	<2	<2	<2	<2	ND	300
Pyrene	625/8270	0.05	<2	<2	<2	<2	ND	960
Benzidine	625/8270	0.05	<50	<50	<50	<50	ND	0.00012
Butylbenzylphthalate	625/8270		<2	<2	<2	<2	ND	3,000
Benzo(a)anthracene	625/8270		<2	<2	<2	<2	ND	0.0044
Chrysene	625/8270	0.02	<2	<2	<2	<2	ND	0.0044
3,3-Dichlorobenzidine	625/8270	0.1	<10	<10	<10	<10	ND	0.04
Bis(2-Ethylhexyl)phthalate	625/8270	1.0	<2.5	<2.5	<2.5	<2.5	ND	1.8
Di-n-octylphthalate	625/8270	0.05	<2.5	<2.5	<2.5	<2.5	ND	VA
Benzo(b)fluoranthene	625/8270	20	<2	<2	<2	<2	ND	0.0044
Benzo(k)fluoranthene	625/8270	20	<2	<2	<2	<2	ND	0.0044
Benzo(a)pyrene	625/8270	100	<2	<2	<2	<2	ND	0.0044
Indeno[1,2,3-cd]pyrene	625/8270	10	<2	<2	<2	<2	ND	0.0044
Dibenz[a,h]anthracene	625/8270	0.50	<2	<2	<2	<2	ND	0.0044
Benzo[g,h,i]perylene	625/8270	0.10	<2	<2	<2	<2	ND	VA

ANALYTE	EPA Method	Report Limits (as noted)	POND 4					Criterion Approx. (as noted)
			4-A	4-B	4-C	4-D	Average	
Pesticides (ug/L)								
Azinphosmethyl (Guthion)	8141A		<1.00	<1.00	<1.00	<1.00	ND	
Bolstar	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Chlorpyrifos (Dursban)	8141A		<0.05	<0.05	<0.05	<0.05	ND	0.0056
Coumaphos	8141A		<0.20	<0.20	<0.20	<0.20	ND	
Def/Morphos	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Demeton (total)	8141A		<0.20	<0.20	<0.20	<0.20	ND	
Diazinon	8141A		<0.05	<0.05	<0.05	<0.05	ND	0.05
Dichlorvos	8141A		<0.20	<0.20	<0.20	<0.20	ND	
Dimethoate	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Disulfoton	8141A		<0.10	<0.10	<0.10	<0.10	ND	
EPN	8141A		<0.10	<0.10	<0.10	<0.10	ND	
EPTC	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Ethion	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Ethoprop	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Fensulfthion	8141A		<0.50	<0.50	<0.50	<0.50	ND	
Fenthion	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Malathion	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Mevinphos	8141A		<0.70	<0.70	<0.70	<0.70	ND	
Naled	8141A		<0.50	<0.50	<0.50	<0.50	ND	
Parathion, ethyl	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Parathion, methyl	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Phorate	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Prowl (pendimethalin)	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Ronnel	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Stirophos	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Sulfotep	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Tokuthion	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Trichloronate	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Trifurail	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Pesticides (ug/L)								
Aldrin	608/8081	0.05	<0.3	<0.05	<0.3	<0.10	ND	0.00013
alpha-BHC	608/8081	0.05	<0.3	<0.05	<0.3	<0.10	ND	0.0039
beta-BHC	608/8081	0.05	<0.3	<0.05	<0.3	<0.10	ND	0.014
gamma-BHC	608/8081	0.05	<0.3	<0.05	<0.3	<0.10	ND	0.019
delta-BHC	608/8081	0.05	<0.3	<0.05	<0.3	<0.10	ND	VA
Chlordane	608/8081	0.5						

POND 5

Water Chemistry Results Napa-Sonoma Marsh Restoration Project DRAFT - Incomplete as of 01/08/02

ANALYTE	EPA Method	Reporting Limits (as noted)	POND 5				Criterion Approx. (as noted)	EPA Method	Method	Reporting Limits (as noted)	POND 5				Criterion Approx. (as noted)
			5-A	5-B	5-C	Average					5-A	5-B	5-C	Average	
Total metals (mg/L)							Pesticides (ug/L)								
Arsenic	3020/6020	0.006	0.201	<0.060	<0.060	0.087	0.036	Azinphosmethyl (Guthion)	8141A	0.006	<1.00	<1.00	<1.00	ND	0.0056
Cadmium	3020/6020	0.005	<0.05	<0.050	<0.050	ND	0.0022	Bolstar	8141A	0.005	<0.10	<0.10	<0.10	ND	
Chromium	3020/6020	0.01	<0.10	<0.10	<0.10	ND	0.18	Chloropyrifos (Dursban)	8141A	0.005	<0.05	<0.05	<0.05	ND	
Copper	3020/6020	0.01	0.66	<0.10	<0.10	0.253	0.0031	Coumaphos	8141A	0.005	<0.20	<0.20	<0.20	ND	
Lead	3020/6020	0.002	<0.02	<0.02	<0.02	ND	0.0025	Def/Morphos	8141A	0.005	<0.10	<0.10	<0.10	ND	
Nickel	3020/6020	0.01	<0.10	<0.10	<0.10	ND	0.0071	Demeton (total)	8141A	0.005	<0.20	<0.20	<0.20	ND	
Selenium	3020/6020	0.02	0.402	<0.20	<0.20	ND	0.005	Diazinon	8141A	0.005	<0.05	<0.05	<0.05	ND	
Silver	3020/6020	0.005	<0.05	<0.050	<0.050	ND	0.0012	Dichlorvos	8141A	0.005	<0.20	<0.20	<0.20	ND	
Zinc	3020/6020	0.02	1.47	0.74	0.87	1.0267	0.058	Dimethoate	8141A	0.005	<0.10	<0.10	<0.10	ND	
Mercury	3020/6020	0.0001	<0.001	<0.0001	<0.0001	ND	2.5E-05	Disulfoton	8141A	0.005	<0.10	<0.10	<0.10	ND	
Sodium	3020/6020	100	79,800	91,300	93,700	88,267		EPN	8141A	0.005	<0.10	<0.10	<0.10	ND	
Potassium	3020/6020	10	8,400	4,640	5,910	6,317		EPTC	8141A	0.005	<0.10	<0.10	<0.10	ND	
Dissolved Metals (mg/L)							Pesticides (ug/L)								
Arsenic	3020/6020	0.006		<0.06	<0.06	ND		Ethion	8141A	0.005	<0.10	<0.10	<0.10	ND	0.05
Cadmium	3020/6020	0.005		<0.05	<0.05	ND		Ethoprop	8141A	0.005	<0.10	<0.10	<0.10	ND	
Chromium	3020/6020	0.01		<0.1	<0.1	ND		Fensulfothion	8141A	0.005	<0.50	<0.50	<0.50	ND	
Copper	3020/6020	0.01		<0.1	<0.1	ND		Fenthion	8141A	0.005	<0.10	<0.10	<0.10	ND	
Lead	3020/6020	0.002		<0.02	<0.02	ND		Malathion	8141A	0.005	<0.10	<0.10	<0.10	ND	
Nickel	3020/6020	0.01		<0.1	<0.1	ND		Mevinphos	8141A	0.005	<0.70	<0.70	<0.70	ND	
Selenium	3020/6020	0.02		<0.2	<0.2	ND		Naled	8141A	0.005	<0.50	<0.50	<0.50	ND	
Silver	3020/6020	0.005		<0.05	<0.05	ND		Parathion, ethyl	8141A	0.005	<0.10	<0.10	<0.10	ND	
Zinc	3020/6020	0.02		0.74	0.87	0.805		Parathion, methyl	8141A	0.005	<0.10	<0.10	<0.10	ND	
Mercury	7470	0.0001		<0.0001	<0.0001	ND		Phorate	8141A	0.005	<0.10	<0.10	<0.10	ND	
Sodium	3010/6010	500						Prowl (pendimethalin)	8141A	0.005	<0.10	<0.10	<0.10	ND	
Potassium	3010/6010	100						Ronnel	8141A	0.005	<0.10	<0.10	<0.10	ND	
Semi-Volatile Organics (ug/L)							Pesticides (ug/L)								
Pyridine	625/8270		<10	<10	<10	ND		Stirophos	8141A	0.005	<0.10	<0.10	<0.10	ND	0.00013
Bis(2-Chloroethyl) ether	625/8270		<2	<2	<2	ND	1.4(0.031)	Sulfotep	8141A	0.005	<0.10	<0.10	<0.10	ND	
2-Chlorophenol	625/8270		<2	<2	<2	ND	120	Tokuthion	8141A	0.005	<0.10	<0.10	<0.10	ND	
Phenol	625/8270		<2	<2	<2	ND	21,000	Trichloronate	8141A	0.005	<0.10	<0.10	<0.10	ND	
1,3-Dichlorobenzene	625/8270		<2	<2	<2	ND	400	Trifuralin	8141A	0.005	<0.10	<0.10	<0.10	ND	
1,4-Dichlorobenzene	625/8270		<2	<2	<2	ND	400	Aldrin	608/8081	0.05	<0.50	<0.25	<0.05	ND	
1,2-Dichlorobenzene	625/8270		<2	<2	<2	ND	2700	alpha-BHC	608/8081	0.05	<0.50	<0.25	<0.05	ND	
Benzyl alcohol	625/8270		<4	<4	<4	ND	VA	beta-BHC	608/8081	0.05	<0.50	<0.25	<0.05	ND	
Bis(2-chloroisopropyl)ether	625/8270		<2	<2	<2	ND	1,400	gamma-BHC	608/8081	0.05	<0.50	<0.25	<0.05	ND	
2-Methylphenol	625/8270		<2	<2	<2	ND	VA	delta-BHC	608/8081	0.05	<0.50	<0.25	<0.05	ND	
Hexachloroethane	625/8270		<2	<2	<2	ND	0.005	Chlordane	608/8081	0.5	<5.0	<2.50	<0.50	ND	
N-Nitroso-di-n-propylamine	625/8270		<2	<2	<2	ND	0.005	4,4-DDD	608/8081	0.1	<1.00	<0.50	<0.10	ND	
4(3)-Methylphenol	625/8270		<2	<2	<2	ND	VA	4,4-DDE	608/8081	0.1	<1.00	<0.50	<0.10	ND	
Nitrobenzene	625/8270		<2	<2	<2	ND	17	4,4-DDT	608/8081	0.1	<1.00	<0.50	<0.10	ND	
Isophorone	625/8270		<2	<2	<2	ND	8.4	Dieldrin	608/8081	0.1	<1.00	<0.50	<0.10	ND	
2-Nitrophenol	625/8270		<4	<4	<4	ND	VA	Endosulfan I	608/8081	0.05	<0.50	<0.25	<0.05	ND	
2,4-Dimethylphenol	625/8270	<0.5-1.0	<2.5	<2.5	<2.5	ND	540	Endosulfan II	608/8081	0.1	<1.00	<0.50	<0.10	ND	
Bis(2-Chloroethoxy)methane	625/8270	0.05	<2	<2	<2	ND	VA	Endosulfan Sulfate	608/8081	0.1	<1.00	<0.50	<0.10	ND	
2,4-Dichlorophenol	625/8270	0.05	<2	<2	<2	ND	93	Endrin	608/8081	0.1	<1.00	<0.50	<0.10	ND	
1,2,4-Trichlorobenzene	625/8270	0.05	<2	<2	<2	ND	VA	Endrin Aldehyde	608/8081	0.1	<1.00	<0.50	<0.10	ND	
Naphthalene	625/8270	0.05	<2	<2	<2	ND	VA	Heptachlor	608/8081	0.05	<0.50	<0.25	<0.05	ND	
4-Chloroaniline	625/8270	0.05	<20	<20	<20	ND	VA	Heptachlor Epoxide	608/8081	0.05	<0.50	<0.25	<0.05	ND	
Hexachlorobutadiene	625/8270	0.5	<2	<2	<2	ND	VA	Methoxychlor	608/8081	0.5	<5.00	<2.50	<0.50	ND	
2-Methylnaphthalene	625/8270		<2	<2	<2	ND	VA	Toxaphene	608/8081	1	<10.00	<5.00	<1.00	ND	
4-Chloro-3-methylphenol	625/8270		<2	<2	<2	ND	VA	PCB's (ug/L)							
Hexachlorocyclopentadiene	625/8270		<2.5	<2.5	<2.5	ND	240	Arochlor 1016	EPA 608/8081	0.5	<5.0	<0.5	<0.5	ND	0.00017
2,4,6-Trichlorophenol	625/8270	0.10	<2	<2	<2	ND	2.1	Arochlor 1221	EPA 608/8081	0.5	<5.0	<0.5	<0.5	ND	0.00017
2,4,5-Trichlorophenol	625/8270		<2	<2	<2	ND	VA	Arochlor 1232	EPA 608/8081	0.5	<5.0	<0.5	<0.5	ND	0.00017
2-Chloronaphthalene	625/8270	0.10	<2	<2	<2	ND	1,700	Arochlor 1242	EPA 608/8081	0.5	<5.0	<0.5	<0.5	ND	0.00017
2-Nitroaniline	625/8270		<5	<5	<5	ND	VA	Arochlor 1248	EPA 608/8081	0.5	<5.0	<0.5	<0.5	ND	0.00017
Acenaphthylene	625/8270	0.10	<2	<2	<2	ND	VA	Arochlor 1254	EPA 608/8081	0.5	<5.0	<0.5	<0.5	ND	0.00017
Dimethylphthalate	625/8270	0.10	<2	<2	<2	ND	313,000	Arochlor 1260	EPA 608/8081	0.5	<5.0	<0.5	<0.5	ND	0.00017
2,6-Dinitrotoluene	625/8270	0.05	<2	<2	<2	ND	VA	Cyanide (mg/L)							
Acenaphthene	625/8270	0.10	<2	<2	<2	ND	1,200	CM 4500 CN	0.02	<0.02	<0.02	<0.02	ND	0.001	
3-Nitroaniline	625/8270	0.10	<10	<10	<10	ND	VA	Ammonia as N (mg/L)							
2,4-Dinitrophenol	625/8270	0.10	<5	<5	<5	ND	70	SM 4500 NH ₃	0.1	8.8	0.6	1.5	3.633		
Dibenzofuran	625/8270	0.10	<2	<2	<2	ND	VA	Nitrate as N (mg/L)							
2,4-Dinitrotoluene	625/8270	0.05	<2	<2	<2	ND	9.1(0.11)	SM 4500 NO ₃	0.1	6.3	5.9	6.3	6.167		
4-Nitrophenol	625/8270	0.05	<5	<5	<5	ND	VA	Total Phosphorous (mg/L)							
Fluorene	625/8270	0.50	<2	<2	<2	ND	1,300	SM 4500 P E	0.05	1.41	0.21	0.2	0.607		
4-Chlorophenyl-phenylether	625/8270	1.00	<2	<2	<2	ND	VA	pH							
Diethylphthalate	625/8270		<2	<2	<2	ND	23,000	EPA 150.1	0.1	7.3	7.8	7.8	7.63		
4-Nitroaniline	625/8270	<0.5-1.0	<10	<10	<10	ND	5	BOD (mg/L)							
N-Nitrosodiphenylamine	625/8270		<2	<2	<2	ND	13.4	SM 5210 B	1	3.0	4.8	4.4	4.07		
4,6-Dinitro-2-methylphenol	625/8270		<2	<2	<2	ND	VA	Turbidity NTU							
4-Bromophenyl-phenylether	625/8270		<2	<2	<2	ND	VA	SM2130 B	0.05	114	64.7	70.9	83.2		
Hexachlorobenzene	625/8270		<2	<2	<2	ND	0.00075	TSS (mg/L)							
Pentachlorophenol	625/8270		<5	<5	<5	ND	7.9(0.28)	SM 2540 D	20	880	390	330	533.3		
Phenanthrene	625/8270		<2	<2	<2	ND	VA	TDS (mg/L)							
Anthracene	625/8270		<2	<2	<2	ND	9,600	SM 2540 C	20	316,000	329,000	326,000	323,667		
Carbazole	625/8270		<5	<5	<5	ND	VA	Chloride (mg/L)							
Di-n-butylphthalate	625/8270	0.1	<2	<2	<2	ND	2,700	SM 2340B	10	174,000	175,000	172,000	173,667		
Fluoranthene	625/8270	0.1	<2	<2	<2	ND	300	Hardness (mg CaCO₃/L)							
Pyrene	625/8270	0.05	<2	<2	<2	ND	960	SM 4500 N	0.5	136,000	85,300	108,000	109,767		
Benzidine															

POND 6

Water Chemistry Results Napa-Sonoma Marsh Restoration Project DRAFT - Incomplete as of 01/08/02

ANALYTE	EPA Method	Reporting Limits (as noted)	POND 6				Criterion Approx. (as noted)	ANALYTE	EPA Method	Reporting Limits (as noted)	POND 6				Criterion Approx. (as noted)
			6-A	6-B	6-C	Average					6-A	6-B	6-C	Average	
Total metals (mg/L)							Pesticides (ug/L)								
Arsenic	3020/6020	0.006	<0.024	<0.024	<0.024	ND	0.036	Azinphosmethyl (Guthion)	8141A		<1.00	<1.00	<1.00	ND	0.0056
Cadmium	3020/6020	0.005	<0.02	<0.02	<0.02	ND	0.0022	Bolstar	8141A		<0.10	<0.10	<0.10	ND	
Chromium	3020/6020	0.01	<0.04	<0.04	0.046	0.0287	0.18	Chloropyrifos (Dursban)	8141A		<0.05	<0.05	<0.05	ND	
Copper	3020/6020	0.01	<0.04	<0.04	<0.04	ND	0.0031	Coumaphos	8141A		<0.20	<0.20	<0.20	ND	
Lead	3020/6020	0.002	<0.008	<0.008	<0.008	ND	0.0025	Def/Morphos	8141A		<0.10	<0.10	<0.10	ND	
Nickel	3020/6020	0.01	<0.04	<0.04	<0.04	ND	0.0071	Demeton (total)	8141A		<0.20	<0.20	<0.20	ND	
Selenium	3020/6020	0.02	<0.08	<0.08	<0.08	ND	0.005	Diazinon	8141A		<0.05	<0.05	<0.05	ND	
Silver	3020/6020	0.005	<0.02	<0.02	<0.02	ND	0.0012	Dichlorvos	8141A		<0.20	<0.20	<0.20	ND	
Zinc	3020/6020	0.02	<0.08	<0.08	0.144	0.0747	0.058	Dimethoate	8141A		<0.10	<0.10	<0.10	ND	
Mercury	3020/6020	0.0001	<0.0001	<0.0001	<0.0001	ND	2.5E-05	Disulfoton	8141A		<0.10	<0.10	<0.10	ND	
Sodium	3020/6020	100	31,900	29,200	32,500	31,200		EPN	8141A		<0.10	<0.10	<0.10	ND	
Potassium	3020/6020	10	1,140	974	1,210	1,108		EPTC	8141A		<0.10	<0.10	<0.10	ND	
								Ethion	8141A		<0.10	<0.10	<0.10	ND	
Dissolved Metals (mg/L)							Pesticides (ug/L)								
Arsenic	3020/6020	0.006	<0.024	<0.024	<0.024	ND		Ethoprop	8141A		<0.10	<0.10	<0.10	ND	
Cadmium	3020/6020	0.005	<0.02	<0.02	<0.02	ND		Fensulfotion	8141A		<0.50	<0.50	<0.50	ND	
Chromium	3020/6020	0.01	<0.04	<0.04	<0.04	ND		Fenthion	8141A		<0.10	<0.10	<0.10	ND	
Copper	3020/6020	0.01	<0.04	<0.04	<0.04	ND		Malathion	8141A		<0.10	<0.10	<0.10	ND	
Lead	3020/6020	0.002	<0.008	<0.008	<0.008	ND		Mevinphos	8141A		<0.70	<0.70	<0.70	ND	
Nickel	3020/6020	0.01	<0.04	<0.04	<0.04	ND		Naled	8141A		<0.50	<0.50	<0.50	ND	
Selenium	3020/6020	0.02	<0.08	<0.08	<0.08	ND		Parathion, ethyl	8141A		<0.10	<0.10	<0.10	ND	
Silver	3020/6020	0.005	<0.02	<0.02	<0.02	ND		Parathion, methyl	8141A		<0.10	<0.10	<0.10	ND	
Zinc	3020/6020	0.02	<0.08	<0.08	0.114	0.0647		Phorate	8141A		<0.10	<0.10	<0.10	ND	
Mercury	7470	0.0001	<0.0001	<0.0001	<0.0001	ND		Prowl (pendimethalin)	8141A		<0.10	<0.10	<0.10	ND	
Sodium	3010/6010	500	27800	26600	29600	28100		Ronnel	8141A		<0.10	<0.10	<0.10	ND	
Potassium	3010/6010	100	1020	966	1060	1013		Stirophos	8141A		<0.10	<0.10	<0.10	ND	
								Sulfotep	8141A		<0.10	<0.10	<0.10	ND	
								Tokuthion	8141A		<0.10	<0.10	<0.10	ND	
								Trichloronate	8141A		<0.10	<0.10	<0.10	ND	
								Trifuralin	8141A		<0.10	<0.10	<0.10	ND	
Semi-Volatile Organics (ug/L)							Pesticides (ug/L)								
Pyridine	625/8270		<10	<10	<10	ND		Aldrin	608/8081	0.05	<0.05	<0.05	<0.05	ND	0.00013
Bis(2-Chloroethyl) ether	625/8270		<2	<2	<2	ND	1.4(0.031)	alpha-BHC	608/8081	0.05	<0.05	<0.05	<0.05	ND	0.0039
2-Chlorophenol	625/8270		<2	<2	<2	ND	120	beta-BHC	608/8081	0.05	<0.05	<0.05	<0.05	ND	0.014
Phenol	625/8270		<2	<2	<2	ND	21,000	gamma-BHC	608/8081	0.05	<0.05	<0.05	<0.05	ND	0.019
1,3 Dichlorobenzene	625/8270		<2	<2	<2	ND	400	delta-BHC	608/8081	0.05	<0.05	<0.05	<0.05	ND	VA
1,4 Dichlorobenzene	625/8270		<2	<2	<2	ND	400	Chlordane	608/8081	0.5	<0.50	<0.50	<0.50	ND	0.00057
1,2 Dichlorobenzene	625/8270		<2	<2	<2	ND	2700	4,4-DDD	608/8081	0.1	<0.10	<0.10	<0.10	ND	0.00083
Benzyl alcohol	625/8270		<4	<4	<4	ND	1,400	4,4-DDE	608/8081	0.1	<0.10	<0.10	<0.10	ND	0.00059
Bis(2-chloroisopropyl)ether	625/8270		<2	<2	<2	ND	1,400	4,4-DDT	608/8081	0.1	<0.10	<0.10	<0.10	ND	0.00059
2-Methylphenol	625/8270		<2	<2	<2	ND	VA	Dieldrin	608/8081	0.1	<0.10	<0.10	<0.10	ND	0.00014
Hexachloroethane	625/8270		<2	<2	<2	ND	VA	Endosulfan I	608/8081	0.05	<0.05	<0.05	<0.05	ND	0.0087
N-Nitroso-di-n-propylamine	625/8270		<2	<2	<2	ND	0.005	Endosulfan II	608/8081	0.1	<0.10	<0.10	<0.10	ND	0.0087
4(3)-Methylphenol	625/8270		<2	<2	<2	ND	VA	Endosulfan Sulfate	608/8081	0.1	<0.10	<0.10	<0.10	ND	110
Nitrobenzene	625/8270		<2	<2	<2	ND	17	Endrin	608/8081	0.1	<0.10	<0.10	<0.10	ND	0.0023
Isophorone	625/8270		<2	<2	<2	ND	8.4	Endrin Aldehyde	608/8081	0.1	<0.10	<0.10	<0.10	ND	0.76
2-Nitrophenol	625/8270		<4	<4	<4	ND	VA	Heptachlor	608/8081	0.05	<0.05	<0.05	<0.05	ND	0.00021
2,4-Dimethylphenol	625/8270	<0.5-1.0	<2.5	<2.5	<2.5	ND	540	Heptachlor Epoxide	608/8081	0.05	<0.05	<0.05	<0.05	ND	0.0001
Bis(2-Chloroethoxy)methane	625/8270	0.05	<2	<2	<2	ND	VA	Methoxychlor	608/8081	0.5	<0.50	<0.50	<0.50	ND	ND
2,4-Dichlorophenol	625/8270	0.05	<2	<2	<2	ND	93	Toxaphene	608/8081	1	<1.00	<1.00	<1.00	ND	0.00073
1,2,4-Trichlorobenzene	625/8270	0.05	<2	<2	<2	ND	VA								
Naphthalene	625/8270	0.05	<2	<2	<2	ND	VA	PCB's (ug/L)							
4-Chloroaniline	625/8270	0.05	<20	<20	<20	ND	ND	Arochlor 1016	EPA 608/8081	0.5	<0.5	<0.5	<0.5	ND	0.00017
Hexachlorobutadiene	625/8270	0.5	<2	<2	<2	ND	ND	Arochlor 1221	EPA 608/8081	0.5	<0.5	<0.5	<0.5	ND	0.00017
2-Methylnaphthalene	625/8270		<2	<2	<2	ND	VA	Arochlor 1232	EPA 608/8081	0.5	<0.5	<0.5	<0.5	ND	0.00017
4-Chloro-3-methylphenol	625/8270		<2	<2	<2	ND	VA	Arochlor 1242	EPA 608/8081	0.5	<0.5	<0.5	<0.5	ND	0.00017
Hexachlorocyclopentadiene	625/8270		<2.5	<2.5	<2.5	ND	240	Arochlor 1248	EPA 608/8081	0.5	<0.5	<0.5	<0.5	ND	0.00017
2,4,6-Trichlorophenol	625/8270	0.10	<2	<2	<2	ND	2.1	Arochlor 1254	EPA 608/8081	0.5	<0.5	<0.5	<0.5	ND	0.00017
2,4,5-Trichlorophenol	625/8270		<2	<2	<2	ND	ND	Arochlor 1260	EPA 608/8081	0.5	<0.5	<0.5	<0.5	ND	0.00017
2-Chloronaphthalene	625/8270	0.10	<2	<2	<2	ND	1,700								
2-Nitroaniline	625/8270		<5	<5	<5	ND	ND	Cyanide (mg/L)							
Acenaphthylene	625/8270	0.10	<2	<2	<2	ND	VA	CM 4500 CN	0.02		<0.02	<0.02	<0.02	ND	0.001
Dimethylphthalate	625/8270	0.10	<2	<2	<2	ND	313,000	Ammonia as N (mg/L)	SM 4500 NH ₃	0.1	0.41	0.25	0.29	0.32	
2,6-Dinitrotoluene	625/8270	0.05	<2	<2	<2	ND	VA	Nitrate as N (mg/L)	SM 4500 NO ₃	0.1	1.9	6.2	2.2	3.43	
Acenaphthene	625/8270	0.10	<2	<2	<2	ND	1,200	Total Phosphorous (mg/L)	SM 4500 P E	0.05	<0.05	<0.05	<0.05	ND	
3-Nitroaniline	625/8270	0.10	<10	<10	<10	ND	ND	pH	EPA 150.1	0.1	8.5	8.4	8.3	8.4	
2,4-Dinitrophenol	625/8270	0.10	<5	<5	<5	ND	70	BOD (mg/L)	SM 5210 B	1	9.8	8.4	8.0	8.73	
Dibenzofuran	625/8270	0.10	<2	<2	<2	ND	ND	Turbidity NTU	SM 2130 B	0.05	14.5	11	11	12.17	
2,4-Dinitrotoluene	625/8270	0.05	<2	<2	<2	ND	9.1(0.11)	TSS (mg/L)	SM 2540 D	20	42	<20	41	31	
4-Nitrophenol	625/8270	0.05	<5	<5	<5	ND	VA	TDS (mg/L)	SM 2540 C	20	97,400	90,300	88,600	92,100	
Fluorene	625/8270	0.50	<2	<2	<2	ND	1,300	Chloride (mg/L)	SM 4500 Cl	100	56,200	51,200	55,200	54,200	
4-Chlorophenyl-phenylether	625/8270	1.00	<2	<2	<2	ND	VA	Hardness (mg CaCO ₃ /L)	SM 2340B	10	19,500	17,400	20,000	18,967	
Diethylphthalate	625/8270		<2	<2	<2	ND	23,000	TKN (mg/L)	SM 4500 N	0.5	7.4	6.6	7	7.0	
4-Nitroaniline	625/8270	<0.5-1.0	<10	<10	<10	ND	5	Organic N (mg/L)	SM 4500 N	0.1	7.0	6.4	6.7	6.7	
N-Nitrosodiphenylamine	625/8270		<2	<2	<2	ND	13.4	Fecal Coliform (Total) MPN/100mL							
4,6-Dintro-2-methylphenol	625/8270		<2	<2	<2	ND	VA				<2	<2	<2	ND	
4-Bromophenyl-phenylether	625/8270		<2	<2	<2	ND	0.00075								

POND 7

Water Chemistry Results Napa-Sonoma Marsh Restoration Project

DRAFT - Incomplete as of 01/08/02

ANALYTE	EPA Method	Report Limits (as noted)	POND 7					Criterion Approx. (as noted)
			7-A	7-B	7-C	7-D	Average	
Total metals (mg/L)								
Arsenic	3020/6020	0.006	0.187	0.118	0.096	0.100	0.125	0.036
Cadmium	3020/6020	0.005	<0.05	<0.025	<0.05	<0.025	ND	0.0022
Chromium	3020/6020	0.01	<0.10	<0.05	<0.10	<0.05	ND	0.18
Copper	3020/6020	0.01	1.450	2.020	1.070	1.53	1.519	0.0031
Lead	3020/6020	0.002	<0.02	<0.01	<0.02	<0.01	ND	0.0025
Nickel	3020/6020	0.01	0.110	0.119	<0.10	0.081	0.090	0.0071
Selenium	3020/6020	0.02	0.390	<0.10	<0.20	0.155	0.174	0.005
Silver	3020/6020	0.005	<0.05	0.038	<0.05	<0.025	0.025	0.0012
Zinc	3020/6020	0.02	3.470	4.26	2.58	3.20	3.379	0.058
Mercury	3020/6020	0.0001	<0.001	<0.0005	<0.001	<0.0005	ND	2.5E-05
Sodium	3020/6020	100	13,400	7,330	34,000	17,700	18,108	
Potassium	3020/6020	10	6,650	7,630	15,300	16,400	11,495	
Dissolved Metals (mg/L)								
Arsenic	3020/6020	0.006						
Cadmium	3020/6020	0.005						
Chromium	3020/6020	0.01						
Copper	3020/6020	0.01						
Lead	3020/6020	0.002						
Nickel	3020/6020	0.01						
Selenium	3020/6020	0.02						
Silver	3020/6020	0.005						
Zinc	3020/6020	0.02						
Mercury	7470	0.0001						
Sodium	3010/6010	500						
Potassium	3010/6010	100						
Semi-Volatile Organics (ug/L)								
Pyridine	625/8270		<200	<10	<200	<10	ND	
Bis(2-Chloroethyl) ether	625/8270		<40	<2	<40	<2	ND	1.4(0.031)
2-Chlorophenol	625/8270		<40	<2	<40	<2	ND	120
Phenol	625/8270		<40	<2	<40	10.7	25.85	21,000
1,3-Dichlorobenzene	625/8270		<40	<2	<40	<2	ND	400
1,4-Dichlorobenzene	625/8270		<40	<2	<40	<2	ND	400
1,2-Dichlorobenzene	625/8270		<40	<2	<40	<2	ND	2700
Benzyl alcohol	625/8270		<80	<4	<80	<4	ND	
Bis(2-chloroisopropyl) ether	625/8270		<40	<2	<40	<2	ND	1,400
2-Methylphenol	625/8270		<40	<2	<40	<2	ND	
Hexachloroethane	625/8270		<40	<2	<40	<2	ND	
N-Nitroso-di-n-propylamine	625/8270		<40	<2	<40	<2	ND	0.005
4(3)-Methylphenol	625/8270		<40	6.2	<40	12.0	9.55	VA
Nitrobenzene	625/8270		<40	<2	<40	<2	ND	17
Isophorone	625/8270		<40	<2	<40	<2	ND	8.4
2-Nitrophenol	625/8270		<80	<4	<80	<4	ND	VA
2,4-Dimethylphenol	625/8270	<0.5-1.0	<50.0	5.4	<50	5.0	8.85	540
Bis(2-Chloroethoxy)methane	625/8270	0.05	<40	<2	<40	<2	ND	VA
2,4-Dichlorophenol	625/8270	0.05	<40	<2	<40	<2	ND	93
1,2,4-Trichlorobenzene	625/8270	0.05	<40	<2	<40	<2	ND	VA
Naphthalene	625/8270	0.05	<40	<2	<40	<2	ND	VA
4-Chloroaniline	625/8270	0.05	<400	<20	<400	<20	ND	
Hexachlorobutadiene	625/8270	0.5	<40	<2	<40	<2	ND	
2-Methylnaphthalene	625/8270		<40	<2	<40	<2	ND	
4-Chloro-3-methylphenol	625/8270		<40	<2	<40	<2	ND	VA
Hexachlorocyclopentadiene	625/8270		<50	<2.5	<50	<2.5	ND	240
2,4,6-Trichlorophenol	625/8270	0.10	<40	<2	<40	<2	ND	2.1
2,4,5-Trichlorophenol	625/8270		<40	<2	<40	<2	ND	
2-Chloronaphthalene	625/8270	0.10	<40	<2	<40	<2	ND	1,700
2-Nitroaniline	625/8270		<100	<5	<100	<5	ND	
Acenaphthylene	625/8270	0.10	<40	<2	<40	<2	ND	VA
Dimethylphthalate	625/8270	0.10	<40	<2	<40	<2	ND	313,000
2,6-Dinitrotoluene	625/8270	0.05	<40	<2	<40	<2	ND	VA
Acenaphthene	625/8270	0.10	<40	<2	<40	<2	ND	1,200
3-Nitroaniline	625/8270	0.10	<200	<10	<200	<10	ND	
2,4-Dinitrophenol	625/8270	0.10	<100	<5	<100	<5	ND	70
Dibenzofuran	625/8270	0.10	<40	<2	<40	<2	ND	
2,4-Dinitrotoluene	625/8270	0.05	<40	<2	<40	<2	ND	9.1(0.11)
4-Nitrophenol	625/8270	0.05	<100	<5	<100	<5	ND	VA
Fluorene	625/8270	0.50	<40	<2	<40	<2	ND	1,300
4-Chlorophenyl-phenylether	625/8270	1.00	<40	<2	<40	<2	ND	VA
Diethylphthalate	625/8270		<40	<2	<40	<2	ND	23,000
4-Nitroaniline	625/8270	<0.5-1.0	<200	<10	<200	<10	ND	
N-Nitrosodiphenylamine	625/8270		<40	<2	<40	<2	ND	5
4,6-Dinitro-2-methylphenol	625/8270		<40	<2	<40	<2	ND	13.4
4-Bromophenyl-phenylether	625/8270		<40	<2	<40	<2	ND	VA
Hexachlorobenzene	625/8270		<40	<2	<40	<2	ND	0.00075
Pentachlorophenol	625/8270		<100	<5	<100	<5	ND	7.9(0.28)
Phenanthrene	625/8270		<40	<2	<40	<2	ND	VA
Anthracene	625/8270		<40	<2	<40	<2	ND	9,600
Carbazole	625/8270		<100	<5	<100	<5	ND	
Di-n-butylphthalate	625/8270	0.1	<40	<2	<40	<2	ND	2,700
Fluoranthene	625/8270	0.1	<40	<2	<40	<2	ND	300
Pyrene	625/8270	0.05	<40	<2	<40	<2	ND	960
Benzidine	625/8270	0.05	<1000	<50	<1000	<50	ND	0.00012
Butylbenzylphthalate	625/8270		<40	<2	<40	<2	ND	3,000
Benzo(a)anthracene	625/8270		<40	<2	<40	<2	ND	0.0044
Chrysene	625/8270	0.02	<40	<2	<40	<2	ND	0.0044
3,3-Dichlorobenzidine	625/8270	0.1	<200	<10	<200	<10	ND	0.04
Bis(2-Ethylhexyl)phthalate	625/8270	1.0	<50.0	<2.5	<50	<2.5	ND	1.8
Di-n-octylphthalate	625/8270	0.05	<50.0	<2.5	<50	<2.5	ND	VA
Benzo(b)fluoranthene	625/8270	20	<40	<2	<40	<2	ND	0.0044
Benzo(k)fluoranthene	625/8270	20	<40	<2	<40	<2	ND	0.0044
Benzo(a)pyrene	625/8270	100	<40	<2	<40	<2	ND	0.0044
Indeno[1,2,3-cd]pyrene	625/8270	10	<40	<2	<40	<2	ND	0.0044
Dibenz[a,h]anthracene	625/8270	0.50	<40	<2	<40	<2	ND	0.0044
Benzo[g,h,i]perylene	625/8270	0.10	<40	<2	<40	<2	ND	VA

ANALYTE	EPA Method	Reporting Limits (as noted)	POND 7					Criterion Approx. (as noted)
			7-A	7-B	7-C	7-D	Average	
Pesticides (ug/L)								
Azinphosmethyl (Guthion)	8141A		<1.0	<1.0	<1.0	<1.0	ND	
Bolstar	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Chloropyrifos (Dursban)	8141A		<0.05	<0.05	<0.05	<0.05	ND	0.0056
Coumaphos	8141A		<0.20	<0.20	<0.20	<0.20	ND	
Def/Morphos	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Demeton (total)	8141A		<0.20	<0.20	<0.20	<0.20	ND	
Diazinon	8141A		<0.05	<0.05	<0.05	<0.05	ND	0.05
Dichlorvos	8141A		<0.20	<0.20	<0.20	<0.20	ND	
Dimethoate	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Disulfoton	8141A		<0.10	<0.10	<0.10	<0.10	ND	
EPN	8141A		<0.10	<0.10	<0.10	<0.10	ND	
EPTC	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Ethion	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Ethoprop	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Fensulfothion	8141A		<0.50	<0.50	<0.50	<0.50	ND	
Fenthion	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Malathion	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Mevinphos	8141A		<0.70	<0.70	<0.70	<0.70	ND	
Naled	8141A		<0.50	<0.50	<0.50	<0.50	ND	
Parathion, ethyl	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Parathion, methyl	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Phorate	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Prowl (pendimethalin)	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Ronnel	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Stirophos	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Sulfotep	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Tokuthion	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Trichloronate	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Trifuralin	8141A		<0.10	<0.10	<0.10	<0.10	ND	
Pesticides (ug/L)								
Aldrin	608/8081	0.05	<1.0	<0.5	<1.0	<0.15	ND	0.00013
alpha-BHC	608/8081	0.05	<1.0	<0.5	<1.0	<0.15	ND	0.0039
beta-BHC	608/8081	0.05	<1.0	<0.5	<1.0	<0.15	ND	0.014
gamma-BHC	608/80							

POND 7A
Water Chemistry Results
Napa-Sonoma Marsh Restoration Project
DRAFT - Incomplete as of 01/08/02

ANALYTE	EPA Method	Report Limits (as noted)	POND 7A				Criterion Approx. (as noted)
			7A-A	7A-B	7A-C	Average	
Total metals (mg/L)							
Arsenic	3020/6020	0.006	<0.06	<0.06	<0.03	ND	0.036
Cadmium	3020/6020	0.005	<0.05	<0.05	<0.025	ND	0.0022
Chromium	3020/6020	0.01	<0.10	<0.10	<0.05	ND	0.18
Copper	3020/6020	0.01	<0.10	0.12	<0.05	0.065	0.0031
Lead	3020/6020	0.002	<0.02	<0.02	<0.01	ND	0.0025
Nickel	3020/6020	0.01	<0.10	<0.10	<0.05	ND	0.0071
Selenium	3020/6020	0.02	<0.20	<0.20	<0.10	ND	0.005
Silver	3020/6020	0.005	<0.05	<0.05	<0.025	ND	0.0012
Zinc	3020/6020	0.02	<0.20	<0.20	<0.10	ND	0.058
Mercury	3020/6020	0.0001	<0.0001	<0.0001	<0.0005	ND	2.5E-05
Antimony	3020/6020		< 0.025	< 0.025	< 0.025	ND	0.014
Beryllium	3020/6020		< 0.025	< 0.025	< 0.025	ND	VA
Thallium	3020/6020		< 0.03	< 0.03	< 0.03	ND	0.0017
Sodium	3010/6010	100	31,300	29,500	21,700	27,500	
Potassium	3010/6010	10	1,190	1,200	889	1,093	
Dissolved Metals (mg/L)							
Arsenic	3020/6020	0.006			<0.03	ND	
Cadmium	3020/6020	0.005			<0.25	ND	
Chromium	3020/6020	0.01			<0.05	ND	
Copper	3020/6020	0.01			<0.05	ND	
Lead	3020/6020	0.002			<0.01	ND	
Nickel	3020/6020	0.01			<0.05	ND	
Selenium	3020/6020	0.02			<0.1	ND	
Silver	3020/6020	0.005			<0.025	ND	
Zinc	3020/6020	0.02			<0.1	ND	
Mercury	7470	0.0001			<0.0005	ND	
Antimony	3020/6020				< 0.025	ND	
Beryllium	3020/6020				< 0.025	ND	
Thallium	3020/6020				< 0.025	ND	
Sodium	3010/6010	500			6600	6600	
Potassium	3010/6010	100			230	230	
Cyanide (mg/L)	CM 4500 CN	0.02	<0.02	<0.02	<0.02	ND	0.001
Hexavalent Chromium (mg/L)	SM3500 CR				<0.02	ND	0.011
Ammonia as N (mg/L)	SM 4500 NH ₃	0.1	0.3	0.5	0.21	0.337	
Nitrate as N (mg/L)	SM 4500 NO ₃	0.1	2.1	1.8	2.1	2	
Total Phosphorous (mg/L)	SM 4500 P E	0.05	<0.05	<0.05	<0.05	ND	
pH	EPA 150.1	0.1	8.6	8.7	8.5	8.60	
BOD (mg/L)	SM 5210 B	1	51.7	45.1		48.40	
Turbidity NTU	SM2130 B	0.05	47	38.3	54.1	46.47	
TSS (mg/L)	SM 2540 D	20	84	101	67	84.00	
TDS (mg/L)	SM 2540 C	20	96,800	97,200	95,200	96,400	
Chloride (mg/L)		100	54,000	52,000	54,000	53,333	
Hardness (mg CaCO ₃ /L)	SM 2340B	10	23,500	223,000	18,500	88,333	
TKN (mg/L)	SM 4500 N	0.5	10.2	11.3	15.2	12.2	
Organic N (mg/L)	SM 4500 N	0.1	9.9	10.8	15.0	11.90	
DO (mg/L)					5.1	5.08	
Asbestos MF/L: Str					ND	ND	
Asbestos MF/L: >5 um					ND	ND	
Asbestos MF/L: >10 um					ND	ND	7000000
Fecal Coliform (Total) MPN/100mL			<2	<2	<2	ND	
Volatiles (ug/L)							
Acetone	624/8260	<2-20			<25.0		
Acetonitrile	624/8260				<2.0		320
Acrolein (Propenal)	624/8260				<100.0		
Acrylonitrile	624/8260				<10.0		0.059
Allyl chloride	624/8260				<1.0		
Benzene	624/8260				<1.0		1.2
Bromobenzene	624/8260				<1.0		
Bromochloromethane	624/8260				<1.0		
Bromodichloromethane	624/8260				<1.0		0.56
Bromoform	624/8260				<1.0		4.3
Bromomethane	624/8260				<2.0		48
2-Butanone (MEK)	624/8260				<25.0		
n-Butylbenzene	624/8260				<1.0		
sec-Butylbenzene	624/8260				<1.0		
tert-butylbenzene	624/8260				<1.0		
Carbon disulfide	624/8260				<1.0		
Carbon tetrachloride	624/8260				<2.0		0.25
Chlorobenzene	624/8260				<1.0		680
Chlorodichloromethane	624/8260				<1.0		34(0.401)
Chloroethane	624/8260				<2.0		VA
2-Chloroethyl vinyl ether	624/8260				<2.0		VA
Chloroform	624/8260				<1.0		VA
Chloromethane	624/8260				<2.0		VA
2-Chlorotoluene	624/8260				<1.0		
4-Chlorotoluene	624/8260				<1.0		
1,2-Dibromo-3-chloropropane	624/8260				<2.0		
1,2-Dibromoethane (EDB)	624/8260				<1.0		
Dibromomethane	624/8260				<1.0		
1,2-Dichlorobenzene	624/8260				<1.0		2,700
1,3-Dichlorobenzene	624/8260				<1.0		400
1,4-Dichlorobenzene	624/8260				<1.0		400
trans-1,4-Dichloro-2-butene	624/8260				<2.0		
Dichlorodifluoromethane	624/8260				<2.0		
1,1-Dichloroethane	624/8260				<1.0		VA
1,2-Dichloroethane	624/8260				<1.0		0.38
1,1-Dichloroethene	624/8260				<1.0		3.2(.057)
cis-1,2-Dichloroethene	624/8260				<1.0		
trans-1,2-Dichloroethene	624/8260				<1.0		700
1,2-Dichloropropane	624/8260				<1.0		0.52
1,3-Dichloropropane	624/8260				<1.0		10
2,2-Dichloropropane	624/8260				<1.0		
1,1-Dichloropropene	624/8260				<1.0		
cis-1,3-Dichloropropene	624/8260				<1.0		
trans-1,3-Dichloropropene	624/8260				<1.0		
Diethyl ether	624/8260				<2.0		
Ethylbenzene	624/8260				<1.0		3,100
Hexachlorobutadiene	624/8260				<1.0		50(0.44)
Hexachloroethane	624/8260				<1.0		8.9(1.9)
2-Hexanone	624/8260				<5.0		
Iodomethane	624/8260				<1.0		
Isopropylbenzene	624/8260				<1.0		
Methylene chloride	624/8260				<5.0		4.7
Methyl tert-butyl ether	624/8260				<1.0		
4-Methyl-2-pentanone (MIBK)	624/8260				<25.0		
Naphthalene	624/8260				<2.0		VA
n-Propylbenzene	624/8260				<1.0		
Styrene	624/8260				<1.0		
1,1,1,2-Tetrachloroethane	624/8260				<1.0		
1,1,2,2-Tetrachloroethane	624/8260				<2.0		11(0.17)
Tetrachloroethene	624/8260				<1.0		8.85(0.8)
Toluene	624/8260				<1.0		6,800
1,2,3-Trichlorobenzene	624/8260				<1.0		
1,2,4-Trichlorobenzene	624/8260				<1.0		VA
1,1,1-Trichloroethane	624/8260				<2.0		VA
1,1,2-Trichloroethane	624/8260				<1.0		42(0.60)
Trichloroethane	624/8260				<1.0		2.7
Trichlorofluoromethane	624/8260				<2.0		
1,2,3-Trichloropropane	624/8260				<2.0		
1,1,2-Trichlorotrifluoroethane	624/8260				<5.0		
1,2,4-Trimethylbenzene	624/8260				<1.0		
1,3,5-Trimethylbenzene	624/8260				<1.0		
Vinyl acetate	624/8260				<5.0		
Vinyl chloride	624/8260				<2.0		2(525)
m,p-Xylene	624/8260				<2.0		
o-Xylene	624/8260				<1.0		

ANALYTE	EPA Method	Reporting Limits (as noted)	POND 7A				Criterion Approx. (as noted)
			7A-A	7A-B	7A-C	Average	
Semi-Volatile Organics (ug/L)							
Pyridine	625/8270		<10	<10	<10	ND	
Bis(2-Chloroethyl) ether	625/8270		<2	<2	<2	ND	1.4(0.031)
2-Chlorophenol	625/8270		<2	<2	<2	ND	120
Phenol	625/8270		<2	<2	<2	ND	21,000
1,3-Dichlorobenzene	625/8270		<2	<2	<2	ND	400
1,4-Dichlorobenzene	625/8270		<2	<2	<2	ND	400
1,2-Dichlorobenzene	625/8270		<2	<2	<2	ND	2700
Benzyl alcohol	625/8270		<4	<4	<4	ND	
Bis(2-chloroisopropyl)ether	625/8270		<2	<2	<2	ND	1,400
2-Methylphenol	625/8270		<2	<2	<2	ND	
Hexachloroethane	625/8270		<2	<2	<2	ND	
N-Nitroso-di-n-propylamine	625/8270		<2	<2	<2	ND	0.005
4/3-Methylphenol	625/8270		<2	<2	<2	ND	VA
Nitrobenzene	625/8270		<2	<2	<2	ND	17
Isophorone	625/8270		<2	<2	<2	ND	8.4
2-Nitrophenol	625/8270		<4	<4	<4	ND	VA
2,4-Dimethylphenol	625/8270	<0.5-1.0	<2.5	<2.5	<2.5	ND	540
Bis(2-Chloroethoxy)methane	625/8270		<2	<2	<2	ND	VA
2,4-Dichlorophenol	625/8270		<2	<2	<2	ND	93
1,2,4-Trichlorobenzene	625/8270		<2	<2	<2	ND	VA
Naphthalene	625/8270		<2	<2	<2	ND	VA
4-Chloroaniline	625/8270		<20	<20	<20	ND	
Hexachlorobutadiene	625/8270		<2	<2	<2	ND	
2-Methylnaphthalene	625/8270		<2	<2	<2	ND	
4-Chloro-3-methylphenol	625/8270		<2	<2	<2	ND	VA
Hexachlorocyclopentadiene	625/8270		<2.5	<2.5	<2.5	ND	240
2,4,6-Trichlorophenol	625/8270	0.10	<2	<2	<2	ND	2.1
2,4,5-Trichlorophenol	625/8270		<2	<2	<2	ND	
2-Chloronaphthalene	625/8270	0.10	<2	<2	<2		

POND 8

Water Chemistry Results Napa-Sonoma Marsh Restoration Project DRAFT - Incomplete as of 01/08/02

ANALYTE	EPA Method	Report Limits (as noted)	POND 8				Criterion Approx. (as noted)
			8-A	8-B	8-C	Average	
Total metals (mg/L)							
Arsenic	3020/6020	0.006	<0.30	<0.30	<0.30	ND	0.036
Cadmium	3020/6020	0.005	<0.25	<0.25	<0.25	ND	0.0022
Chromium	3020/6020	0.01	<0.50	<0.50	<0.50	ND	0.18
Copper	3020/6020	0.01	<0.50	0.62	<0.50	0.373	0.0031
Lead	3020/6020	0.002	<0.10	<0.10	<0.10	ND	0.0025
Nickel	3020/6020	0.01	<0.50	<0.50	<0.50	ND	0.0071
Selenium	3020/6020	0.02	<1.00	<1.0	<1.00	ND	0.005
Silver	3020/6020	0.005	<0.25	<0.25	<0.25	ND	0.0012
Zinc	3020/6020	0.02	2.7	1.7	1.13	1.84	0.058
Mercury	3020/6020	0.0001	<0.0005	<0.0005	<0.0005	ND	2.5E-05
Sodium	3020/6020	100	60,000	61,500	66,200	62,567	
Potassium	3020/6020	10	11,900	8,990	9,420	10,103	
Dissolved Metals (mg/L)							
Arsenic	3020/6020	0.006					
Cadmium	3020/6020	0.005					
Chromium	3020/6020	0.01					
Copper	3020/6020	0.01					
Lead	3020/6020	0.002					
Nickel	3020/6020	0.01					
Selenium	3020/6020	0.02					
Silver	3020/6020	0.005					
Zinc	3020/6020	0.02					
Mercury	7470	0.0001					
Sodium	3010/6010	500		61,500		61,500	
Potassium	3010/6010	100		8,990		8,990	
Semi-Volatile Organics (ug/L)							
Pyridine	625/8270		<10	20	<10	ND	
Bis(2-Chloroethyl) ether	625/8270		<2	<2	<2	ND	1.4(0.031)
2-Chlorophenol	625/8270		<2	<2	<2	ND	120
Phenol	625/8270		<2	<2	<2	ND	21,000
1,3-Dichlorobenzene	625/8270		<2	<2	<2	ND	400
1,4-Dichlorobenzene	625/8270		<2	<2	<2	ND	400
1,2-Dichlorobenzene	625/8270		<2	<2	<2	ND	2700
Benzyl alcohol	625/8270		<4	<4	<4	ND	
Bis(2-chloroisopropyl)ether	625/8270		<2	<2	<2	ND	1,400
2-Methylphenol	625/8270		<2	<2	<2	ND	
Hexachloroethane	625/8270		<2	<2	<2	ND	
N-Nitroso-di-n-propylamine	625/8270		<2	<2	<2	ND	0.005
4(3)-Methylphenol	625/8270		<2	<2	<2	ND	VA
Nitrobenzene	625/8270		<2	<2	<2	ND	17
Isophorone	625/8270		<2	<2	<2	ND	8.4
2-Nitrophenol	625/8270		<4	<4	<4	ND	VA
2,4-Dimethylphenol	625/8270	<0.5-1.0	<2.5	<2.5	<2.5	ND	540
Bis(2-Chloroethoxy)methane	625/8270	0.05	<2	<2	<2	ND	VA
2,4-Dichlorophenol	625/8270	0.05	<2	<2	<2	ND	93
1,2,4-Trichlorobenzene	625/8270	0.05	<2	<2	<2	ND	VA
Napthalene	625/8270	0.05	<2	<2	<2	ND	VA
4-Chloroaniline	625/8270	0.05	<20	<20	<20	ND	
Hexachlorobutadiene	625/8270	0.5	<2	<2	<2	ND	
2-Methylnapthalene	625/8270		<2	<2	<2	ND	
4-Chloro-3-methylphenol	625/8270		<2	<2	<2	ND	VA
Hexachlorocyclopentadiene	625/8270		<2.5	<2.5	<2.5	ND	240
2,4,6-Trichlorophenol	625/8270	0.10	<2	<2	<2	ND	2.1
2,4,5-Trichlorophenol	625/8270		<2	<2	<2	ND	
2-Chloronapthalene	625/8270	0.10	<2	<2	<2	ND	1,700
2-Nitroaniline	625/8270		<5	<5	<5	ND	
Acenaphthylene	625/8270	0.10	<2	<2	<2	ND	VA
Dimethylphthalate	625/8270	0.10	<2	<2	<2	ND	313,000
2,6-Dinitrotoluene	625/8270	0.05	<2	<2	<2	ND	VA
Acenaphthene	625/8270	0.10	<2	<2	<2	ND	1,200
3-Nitroaniline	625/8270	0.10	<10	<10	<10	ND	
2,4-Dinitrophenol	625/8270	0.10	<5	<5	<5	ND	70
Dibenzofuran	625/8270	0.10	<2	<2	<2	ND	
2,4-Dinitrotoluene	625/8270	0.05	<2	<2	<2	ND	9.1(0.11)
4-Nitrophenol	625/8270	0.05	<5	<5	<5	ND	VA
Fluorene	625/8270	0.50	<2	<2	<2	ND	1,300
4-Chlorophenyl-phenylether	625/8270	1.00	<2	<2	<2	ND	VA
Diethylphthalate	625/8270		<2	<2	<2	ND	23,000
4-Nitroaniline	625/8270	<0.5-1.0	<10	<10	<10	ND	
N-Nitrosodiphenylamine	625/8270		<2	<2	<2	ND	5
4,6-Dinitro-2-methylphenol	625/8270		<2	<2	<2	ND	13.4
4-Bromophenyl-phenylether	625/8270		<2	<2	<2	ND	VA
Hexachlorobenzene	625/8270		<2	<2	<2	ND	0.00075
Pentachlorophenol	625/8270		<5	<5	<5	ND	7.9(0.28)
Phenanthrene	625/8270		<2	<2	<2	ND	VA
Anthracene	625/8270		<2	<2	<2	ND	9,600
Carbazole	625/8270		<5	<5	<5	ND	
Di-n-butylphthalate	625/8270	0.1	<2	<2	<2	ND	2,700
Fluoranthene	625/8270	0.1	<2	<2	<2	ND	300
Pyrene	625/8270	0.05	<2	<2	<2	ND	960
Benzidine	625/8270	0.05	<50	<50	<50	ND	0.00012
Butylbenzylphthalate	625/8270		<2	<2	<2	ND	3,000
Benzo(a)anthracene	625/8270		<2	<2	<2	ND	0.0044
Chrysene	625/8270	0.02	<2	<2	<2	ND	0.0044
3,3-Dichlorobenzidine	625/8270	0.1	<10	<10	<10	ND	0.04
Bis(2-Ethylhexyl)phthalate	625/8270	1.0	<2.5	<2.5	<2.5	ND	1.8
Di-n-octylphthalate	625/8270	0.05	<2.5	<2.5	<2.5	ND	VA
Benzo(b)fluoranthene	625/8270	20	<2	<2	<2	ND	0.0044
Benzo(k)fluoranthene	625/8270	20	<2	<2	<2	ND	0.0044
Benzo(a)pyrene	625/8270	100	<2	<2	<2	ND	0.0044
Indeno[1,2,3-cd]pyrene	625/8270	10	<2	<2	<2	ND	0.0044
Dibenz[a,h]anthracene	625/8270	0.50	<2	<2	<2	ND	0.0044
Benzo[g,h,i]perylene	625/8270	0.10	<2	<2	<2	ND	VA

ANALYTE	EPA Method	Reporting Limits (as noted)	POND 8				Criterion Approx. (as noted)
			8-A	8-B	8-C	Average	
Pesticides (ug/L)							
Azinphosmethyl (Guthion)	8141A		<1.0	<1.0	<1.0	ND	
Bolstar	8141A		<0.10	<0.10	<0.10	ND	
Chloropyrifos (Dursban)	8141A		<0.05	<0.05	<0.05	ND	0.0056
Coumaphos	8141A		<0.20	<0.20	<0.20	ND	
Def/Morphos	8141A		<0.10	<0.10	<0.10	ND	
Demeton (total)	8141A		<0.20	<0.20	<0.20	ND	
Diazinon	8141A		<0.05	<0.05	<0.05	ND	0.05
Dichlorvos	8141A		<0.20	<0.20	<0.20	ND	
Dimethoate	8141A		<0.10	<0.10	<0.10	ND	
Disulfoton	8141A		<0.10	<0.10	<0.10	ND	
EPN	8141A		<0.10	<0.10	<0.10	ND	
EPTC	8141A		<0.10	<0.10	<0.10	ND	
Ethion	8141A		<0.10	<0.10	<0.10	ND	
Ethoprop	8141A		<0.10	<0.10	<0.10	ND	
Fensulfothion	8141A		<0.50	<0.50	<0.50	ND	
Fenthion	8141A		<0.10	<0.10	<0.10	ND	
Malathion	8141A		<0.10	<0.10	<0.10	ND	
Mevinphos	8141A		<0.70	<0.70	<0.70	ND	
Naled	8141A		<0.50	<0.50	<0.50	ND	
Parathion, ethyl	8141A		<0.10	<0.10	<0.10	ND	
Parathion, methyl	8141A		<0.10	<0.10	<0.10	ND	
Phorate	8141A		<0.10	<0.10	<0.10	ND	
Prowl (pendimethalin)	8141A		<0.10	<0.10	<0.10	ND	
Ronnel	8141A		<0.10	<0.10	<0.10	ND	
Stirophos	8141A		<0.10	<0.10	<0.10	ND	
Sulfotep	8141A		<0.10	<0.10	<0.10	ND	
Tokuthion	8141A		<0.10	<0.10	<0.10	ND	
Trichloronate	8141A		<0.10	<0.10	<0.10	ND	
Trifluralin	8141A		<0.10	<0.10	<0.10	ND	
Pesticides (ug/L)							
Aldrin	608/8081	0.05	<0.25	<0.3	<0.25	ND	0.00013
alpha-BHC	608/8081	0.05	<0.25	<0.3	<0.25	ND	0.0039
beta-BHC	608/8081	0.05	<0.25	<0.3	<0.25	ND	0.014
gamma-BHC	608/8081	0.05	<0.25	<0.3	<0.25	ND	0.019
delta-BHC	608/8081	0.05	<0.25	<0.3	<0.25	ND	VA
Chlordane	608/8081	0.5	<2.50	<2.5	<2.50	ND	0.00057
Alpha-chlordane	608/8081		<0.50	<0.50	<0.50	ND	
Gamma-chlordane	608/8081		<0.50	<0.50	<0.50	ND	
2,4,DDD	608/8081		<0.10	<0.10	<0.10	ND	
4,4-DDD	608/8081	0.1	<0.50	<0.5	<0.50	ND	0.00083
2,4,DDE	608/8081		<0.10	<0.10	<0.10	ND	
4,4-DDE	608/8081	0.1	<0.50	<0.5	<0.50	ND	0.00059
2,4,DDT	608/8081		<0.10	<0.10	<0.10	ND	
4,4-DDT	608/8081	0.1	<0.50	<0.5	<0.50	ND	0.00059
Dieldrin	608/8081	0.1	<0.50	<0.5	<0.50	ND	0.00014
Endosulfan I	608/8081	0.05	<0.25	<0.3	<0.25	ND	0.0087
Endosulfan II	608/8081	0.1	<0.50	<0.5	<0.50	ND	0.0087
Endosulfan Sulfate	608/8081	0.1	<0.50	<0.5	<0.50	ND	110
Endrin	608/8081	0.1	<0.50	<0.5	<0.50		

WATER CHEMISTRY
SUMMARY OF FIELD PARAMETERS
Napa-Sonoma Marsh Habitat Restoration Project
10/29/01 - 11/15/01

Station	1-A	1-B	1A-A	1A-B	2-A	2-B	2-C	2-D	2A-A	2A-B	3-A	3-B	3-C	3-D	4-A	4-B	4-C	4-D	5-A	5-B
Date	#####	#####	#####	11/5/2001	#####	#####	#####	#####	11/5/2001	11/5/2001	#####	#####	#####	#####	11/5/2001	11/7/2001	11/7/2001	11/5/2001	11/6/2001	11/7/2001
pH (s.u.)	8.30	7.75	8.62	NM	8.36	8.33	8.38	8.46	NM	7.95	8.48	8.59	8.49	7.93	7.36	8.75 ^a	8.25 ^a	7.43	8.5 ^a	8.75 ^a
Temperature (°C)	19.8	17.6	21.2	21.5	16.2	16.8	19.8	19.1	16.7	14.3	18.6	19.7	15.0	21.3	22.4	22.8	14.1	21.5	14.5	17.8
Conductivity (ms/cm)	61.9	59.6	84.3	82.7	57.9	58.2	58.7	59.0	35.4	35.0	87	106	92.0	108	200	201	184.9	212	185.6	201
Turbidity (NTU)	3.75	21.50	41.3	16.32	41.25	35.61	39.82	30.0	127.2	17.34	42.09	80.25	64.36	70	66.32	267.4	139.41	252.0	Low	87.18
DO (mg/L)	NM	NM	NM	NM	NM	NM	NM	NM	6.5	7.7	6.5	6.4	3.5	7.0	4.4	3	7.0	< 3	4	
Salinity (g/L)	41.5	39.6	> 199.9	100	38.3	38.7	39.1	39.1	22.8	21.8	64	91	65	89	280	357	381	300	NM	357
Water Depth ^c (in)	12	24	12	35	36	30	43	39	12	24	24	24	18	2	30	30	4	6	3	3

Station	5-C	6-A	6-B	6-C	6A-A	6A-B	6A-C	7-A	7-B	7-C	7-D	7A-A	7A-B	7A-C	8-A	8-B	8-C	NS-A	NR-A	SP-A
Date	11/7/2001	11/6/2001	11/6/2001	11/6/2001	11/6/2001	11/6/2001	11/6/2001	11/11/2001	11/8/2001	11/1/2001	11/8/2001	11/1/2001	11/1/2001	11/8/2001	11/8/2001	11/5/2001	11/8/2001	11/7/2001	#####	#####
pH (s.u.)	8.5 ^a	9.25 ^a	8.75 ^a	8.75 ^a	9.0 ^a	8.75 ^a	9.0 ^a	NM	4.75 ^a	6.79 ^b	5.25 ^a	NM	NM	8.52 ^b	4.5 ^a	3.88 ^b	3.33 ^b	7.0 ^a	7.43	7.35
Temperature (°C)	21.6	20.1	16.4	14.5	18.9	18.5	16.5	26.5	18.8	28.1	23.0	28.5	19.2	16.6	16.5	17.3	14.6	15.4	16.4	16.5
Conductivity (ms/cm)	197	123.3	117.2	124.3	111.5	65.9	66.4	556	101	555	133	119.5	181.3	120.5	161	178.6	181	32.4	31.9	38.9
Turbidity (NTU)	62.22	28.25	11.07	14.83	11.49	21.33	67.05	238.8	Low	67.28	201.6	44.43	52.41	71.68	19.64	47.13	59.28	36.87	59.70	20.19
DO (mg/L)	3.6	5.0	6.5	6.5	5.2	6.8	6.5	NM	6	NM	2.5	NM	NM	5.3	2.5	6.5	3.0	7.2	8.0	8.1
Salinity (g/L)	340	85	85	90	80	44.5	44.8	374	327	355	403	95	106	92	352	256	302	20.1	19.8	24.4
Water Depth ^c (in)	2.5	18	30	24	34	18	16	4	1.5	4	16	17	22	36	18	18	20	> 120	UM	132

NOTES:

^{a)} pH measurements taken using pH Strips

^{b)} Measurements collected on 11/15/01

^{c)}

NM = Not Measured - Probe Not available

UM = Unmeasurable due to site conditions