

Table 10 Summary Statistics
San Mateo Watershed

Date	ID	Matrix	Alkalinity	Arsenic	Bicarbonate	BOD	Boron	Calcium	Carbonate	Chloride
03-Mar-98	509002	surface water	163	ND	160		ND	83	2.45	78
26-May-98	509003	surface water	194	ND	190	ND	ND	76.9	3.34	101
04-Aug-98	509004	surface water	184	ND	182		0.291	81	2.25	92
19-Feb-99	509006	surface water	208	ND	203		0.423	98.9	4.9	125
11-May-99	509007	surface water	180	ND	178	ND	0.386	95.8	1.84	121
03-Mar-98	510002	surface water	103	ND	102		ND	34	1.23	28.2
04-Jun-98	510003	surface water	134	ND	131	ND	ND	36.3	3.02	84.9
04-Aug-98	510004	surface water	189	ND	183		0.112	47.9	5.57	56.6
19-Nov-98	510005	surface water	182	ND	179	ND	ND	51.8	3.13	60.8
19-Feb-99	510006	surface water	170	ND	167		0.138	48.3	3.27	55.2
11-May-99	510007	surface water	175	ND	172	ND	ND	46.9	2.57	50.2
09-Dec-97	511001	surface water	143	ND	143	ND	ND	81.1	ND	128
03-Mar-98	511002	surface water	111	ND	110		ND	45	1.42	36.8
26-May-98	511003	surface water	149	ND	148	ND	ND	43.2	0.941	93.1
04-Aug-98	511004	surface water	164	ND	164		0.2	68.5	0.509	72.8
09-Nov-98	511005	surface water	156	ND	156	ND	0.216	83.5	ND	88.2
10-Feb-99	511006	surface water	164	ND	163		0.255	84	1.16	88.8
11-May-99	511007	surface water	151	ND	150	ND	0.192	87	0.708	82.9
05-Jan-98	103001	ground water	184	ND	184	ND		96.5	ND	142
06-Mar-98	103002	ground water	191	ND	188		ND	62	2.8	30.4
27-May-98	103003	ground water	166	0.045	166	ND	ND	73.8	ND	93.6
05-Aug-98	103004	ground water	209	0.0991	209		0.256	94.4	ND	65.2
10-Nov-98	103005	ground water	168	ND	168	ND	0.268	89.3	ND	120
12-Feb-99	103006	ground water	171	ND	171		0.268	83.3	ND	111
12-May-99	103007	ground water	189	ND	188	ND	0.322	94.8	1.14	112

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Date	ID	Matrix	Alkalinity	Arsenic	Bicarbonate	BOD	Boron	Calcium	Carbonate	Chloride
statistical distribution			N	NP	N	NP	N	N	N	N
mean			167.92		166.2		0.255923	71.488	2.3471111	84.708
standard deviation			26.1341411		25.59622368		0.088577	21.12992	1.4007514	31.429377
number of samples			25	2	25	0	13	25	18	25
maximum			209	0.0991	209	0	0.423	98.9	5.57	142
minimum			103	0.045	102	0	0.112	34	0.509	28.2
number of samples with ND's			25	25	25	13	24	25	25	25
% ND's			0%	92%	0%	100%	46%	0%	28%	0%
data type			A	D	A	D	C	A	C	A
variance							0.007846	446.4736	1.9621045	
DL			1	0.01	1	2	0.1	0.1	0.5	1
MCL				0.05						250
h							0.458333		0.28	
γ							0.322718		0.5750904	
λ							0.82211		0.460895	
adjusted mean							0.127737		1.4957868	
adjusted variance							0.027833		3.5345951	
adjusted standard deviation							0.166832		1.8800519	
α			0.05		0.05		0.05	0.05	0.05	0.05
v			24		24		24	24	24	24
t			2.064		2.064		2.064	2.064	2.064	2.064
UPL			222.929107	0.025	220.0768579	2	0.485078	115.9638	5.4825466	150.86292

Table 10 Summary Statistics
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Date	ID	Conductivity	Copper	Cyanide	Fecal Coliform	Fluoride	Hardness	Hydroxide	Iron	Lead
03-Mar-98	509002	719	ND		<2	0.386	330	ND	4	ND
26-May-98	509003	824	ND	ND	13	0.342	270	ND	0.11	ND
04-Aug-98	509004	874	ND		2	0.446	295	ND	0.478	ND
19-Feb-99	509006	1110	ND		<2	0.453	389	ND	0.382	0.00587
11-May-99	509007	1140	ND	ND	170	0.458	321	ND	0.835	ND
03-Mar-98	510002	332	ND		30	0.271	106	ND	0.8	ND
04-Jun-98	510003	394	ND	ND	110	0.334	142	ND	0.058	ND
04-Aug-98	510004	573	ND		130	0.334	204	ND	0.0618	0.00223
19-Nov-98	510005	629	ND	ND	4	0.301	222	ND	ND	ND
19-Feb-99	510006	572	ND		<2	0.31	201	ND	0.487	0.00616
11-May-99	510007	588	ND	ND	4	0.327	184	ND	ND	ND
09-Dec-97	511001	860	ND	ND	2	0.05	287	ND	0.068	ND
03-Mar-98	511002	434	ND		<2	0.295	145	ND	2.1	ND
26-May-98	511003	496	ND	ND	<2	0.278	166	ND	0.119	ND
04-Aug-98	511004	739	ND		<2	0.296	277	ND	0.0894	ND
09-Nov-98	511005	886	ND	ND	500	0.275	335	ND	0.5	ND
10-Feb-99	511006	934	ND		13	0.251	353	ND	ND	0.00133
11-May-99	511007	932	ND	ND	30	0.254	305	ND	ND	ND
05-Jan-98	103001	1030	0.026	ND	140	0.471	344	ND	31.1	0.026
06-Mar-98	103002	508	0.062		<2	0.459	202	ND	78	0.02
27-May-98	103003	544	0.036	ND	2	0.361	241	ND	45.1	0.0123
05-Aug-98	103004	679	0.0825			0.378	322	ND	104	0.0354
10-Nov-98	103005	952	0.014	ND	<2	0.265	357	ND	14.5	0.0037
12-Feb-99	103006	915	0.0192		30	0.267	318	ND	18.3	0.00635
12-May-99	103007	1070	0.0302	ND	<2	0.322	347	ND	34	0.0119

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San Mateo Watershed

Date	ID	Conductivity	Copper	Cyanide	Fecal Coliform	Fluoride	Hardness	Hydroxide	Iron	Lead
statistical distribution		N	NP	NP	NP	N	N	NP	N	NP
mean		749.36				0.32736	266.52		15.95658	
standard deviation		235.035437				0.091152	79.410914		28.52907	
number of samples		25	7	0	15	25	25	0	21	11
maximum		1140	0.0825	0	500	0.471	389	0	104	0.0354
minimum		332	0.014	0	2	0.05	106	0	0.058	0.00133
number of samples with ND's		25	25	13	25	25	25	25	25	25
% ND's		0%	72%	100%	40%	0%	0%	100%	16%	56%
data type		A	D	D	C	B	A	D	C	D
variance									813.9076	
DL		1	0.005	0.005	none	0.1	1	0.5	0.05	0.001
MCL		900	1	0.2					0.3	0.015
h						ND=DL/2			0.16	
γ						#####			3.216781	
λ									use Trimmed	
adjusted mean									4.352247	
adjusted variance									75.81187	
adjusted standard deviation									8.707001	
α		0.05				0.05	0.05		0.05	
v		24				24	24		24	
t		2.064				2.064	2.064		2.064	
UPL		1244.080276	0.5	0.1		0.519224	433.67007	0.5	22.74641	0.0075

Table 10 Summary Statistics
San Mateo Watershed

Date	ID	Magnesium	Manganese	Mercury	Nitrate	Nitrogen	Oil & Grease	pH	Phosphorus	Potassium
03-Mar-98	509002	24	0.11		0.298		ND	8.16	0.227	2
26-May-98	509003	24	0.017	ND	ND	ND	ND	8.27	0.012	1.75
04-Aug-98	509004	20.9	0.202		ND		ND	8.12	0.19	1.88
19-Feb-99	509006	26.2	0.0346		0.14		1.5	8.4	0.027	2.16
11-May-99	509007	26.1	0.0606	ND	ND	ND	ND	8.32	0.016	ND
03-Mar-98	510002	11	0.02		0.434		ND	7.89	0.108	ND
04-Jun-98	510003	13.3	0.007	ND	0.168		ND	8.61	ND	0.95
04-Aug-98	510004	18.4	0.0122		ND		ND	8.51	0.02	0.651
19-Nov-98	510005	21.6	ND	ND	ND		ND		ND	0.839
19-Feb-99	510006	18.7	ND		ND		ND	8.29	ND	ND
11-May-99	510007	17.5	ND	ND	ND	ND	ND	8.29	0.015	ND
09-Dec-97	511001	22.6	0.176	ND	7.72	ND	ND	7.3	0.027	1.45
03-Mar-98	511002	14	0.04		1.98		ND	8.13	0.373	ND
26-May-98	511003	15.5	ND	ND	1.27	ND	ND	7.83	0.021	0.955
04-Aug-98	511004	21.2	0.0283		7.6		ND	7.52	0.1	2.08
09-Nov-98	511005	25.7	0.0821	ND	11.8	0.526	ND		0.071	2.15
10-Feb-99	511006	26.3	ND		11.9		ND	7.3	ND	1.33
11-May-99	511007	24.3	ND	ND	12.5	ND	ND	7.18	0.038	1.18
05-Jan-98	103001	30.3	6.01	ND	ND	0.219		6.89	3.12	7.67
06-Mar-98	103002	31.7	8.04		ND		ND	7.56	0.736	16.2
27-May-98	103003	28.4	6.91	ND	ND	0.7	ND	6.65	1.27	9.08
05-Aug-98	103004	45.8	11.8		1.7		ND	7.21	0.05	18.6
10-Nov-98	103005	28.6	2.53	ND	ND	0.831	ND		0.323	4.94
12-Feb-99	103006	27.9	3.83		ND		ND	6.99	0.394	5.5
12-May-99	103007	33.4	5.64	ND	ND	1.11	1.22	6.85	0.829	7.37

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Date	ID	Magnesium	Manganese	Mercury	Nitrate	Nitrogen	Oil & Grease	pH	Phosphorus	Potassium
statistical distribution		N	N	NP	NP	NP	NP	N	LOG	LOG
mean		23.896	2.39735789					7.739545	0.379380952	4.43675
standard deviation		7.41105481	3.58646224					0.610967	0.709704338	5.1163733
number of samples		25	19	0	12	5	2	22	21	20
maximum		45.8	11.8	0	12.5	1.11	1.5	8.61	3.12	18.6
minimum		11	0.007	0	0.14	0.219	1.22	6.65	0.012	0.651
number of samples with N		25	25	15	25	12	25	22	25	25
% ND's		0%	24%	100%	52%	58%	92%	0%	16%	20%
data type		A	C	D	D	D	D	A	C	C
variance			12.8627114						0.503680248	26.177276
DL		0.2	0.01	0.0002	0.05	0.1	1	none	0.01	0.3
MCL			0.05	0.002	45	10				
h			0.24						0.16	0.2
γ			2.25682282						3.691525956	1.5296987
λ			use Trimmed						use Trimmed	use Trimmed
adjusted mean			0.2556						0.118352941	1.9876667
adjusted variance			0.47086842						0.017610618	1.9863404
adjusted standard deviation			0.68619852						0.132705002	1.4093759
α		0.05	0.05					0.05	0.05	0.05
v		24	24					24	24	24
t		2.064	2.064					2.064	2.064	2.064
UPL		39.4953459	1.70870725	0.001	22.5	5	1	9.028923	0.398701727	4.9684553

Table 10 Summary Statistics
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Date	ID	Sodium	Sulfate	Surfactants	Total Coliform	TDS	TOC	Zinc
03-Mar-98	509002	70	125	ND	900	478	4.75	ND
26-May-98	509003	74.3	127	ND	80	553	4.62	ND
04-Aug-98	509004	48.8	174	ND	>1600	545	1.41	0.0184
19-Feb-99	509006	107	199	ND	30	711	5.29	ND
11-May-99	509007	104	219	0.106	280	703	2.51	ND
03-Mar-98	510002	33	26.6	ND	900	206	2.8	0.09
04-Jun-98	510003	39.5	35.9	ND	300	283	4.31	ND
04-Aug-98	510004	62.2	55.2	ND	220	366	1.81	ND
19-Nov-98	510005	51.5	58	ND	11	391	1.7	0.0109
19-Feb-99	510006	48.3	52.8	ND	60	358	2.83	0.0104
11-May-99	510007	45	50	ND	70	361	ND	ND
09-Dec-97	511001	60.8	123	ND		360	4.21	ND
03-Mar-98	511002	42	47	ND	240	273	5.84	ND
26-May-98	511003	45.1	78.8	ND	170	327	2.48	ND
04-Aug-98	511004	120	119	ND	300	470	3.53	ND
09-Nov-98	511005	67.4	171	ND	900	595	ND	ND
10-Feb-99	511006	68.6	148	ND	59	586	3.69	ND
11-May-99	511007	60.6	157	ND	>1600	583	1.45	ND
05-Jan-98	103001	104	139	ND	ND	618	3.34	0.113
06-Mar-98	103002	58.5	31.6	ND	80	461	5.97	0.25
27-May-98	103003	48.4	71.1	ND	70	393	7.1	0.14
05-Aug-98	103004		80.4	ND	>1600	454	5.17	0.307
10-Nov-98	103005	67.2	137	ND	2	611	ND	0.046
12-Feb-99	103006	77.6	146	ND	900	585	ND	0.0596
12-May-99	103007	90	180	ND	2	676	1.7	0.109

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Date	ID	Sodium	Sulfate	Surfactants	Total Coliform	TDS	TOC	Zinc
statistical distribution		N	N	NP	NP	N	N	NP
mean		66.408333	110.056			477.88	3.643333	
standard deviation		23.579374	57.12032			142.3702	1.658371	
number of samples		24	25	1	20	25	21	11
maximum		120	219	0.106	900	711	7.1	0.307
minimum		33	26.6	0.106	2	206	1.41	0.0104
number of samples with N		24	25	25	25	25	25	25
% ND's		0%	0%	96%	20%	0%	16%	56%
data type		A	A	D	C	A	C	D
variance							2.750193	
DL		0.3	5	0.1	none	10	1	0.01
MCL			250	0.5		500		5
h							0.16	
γ							0.393604	
λ							0.22694	
adjusted mean							3.043455	
adjusted variance							4.335871	
adjusted standard deviation							2.082276	
α		0.05	0.05		0.05	0.05	0.05	
v		24	24		24	24	24	
t		2.064	2.064		2.064	2.064	2.064	
UPL		116.07973	230.2871	0.25	0	777.5515	7.442411	2.5