California Regional Water Quality Control Board
North Coast Region

Laguna de Santa Rosa TMDL

2009 Source Analysis Monitoring Report Appendix

June 2010

Appendix A. Sampling Locations

Site_ID	Thomas Bros. Map Location	Road Crossing	Latitude	Longitude
COM1	384 B3	Marlow	38.457	-122.752
COM2	384 E6	Pierson	38.437	-122.725
COM3	384 J6	Farmers	38.441	-122.687
COM4	384 G6	Brookwood	38.439	-122.702
COM5	384 F6	Mendocino	38.437	-122.714
COM6	384 C3	Coffey on Railroad Bridge	38.463	-122.742
COM10	384 F6	Mendocino	38.437	-122.714
CROP1	424 D6	Derby	38.336	-122.733
CROP2	424 C6	Stony Point	38.336	-122.741
CROP3	383 F4	Guerneville	38.453	-122.794
CROP4	383 C7	Sanford	38.430	-122.825
CROP5	363 D2	Windsor	38.518	-122.821
CROP6	424 J4	Snyder	38.351	-122.686
FOR1	343 J5	Leslie	38.546	-122.772
FOR2	365 F3	St Helena	38.512	-122.638
FOR3	343 J5	Chalk Hill	38.547	-122.773
FOR4	344 E5	Leslie	38.550	-122.723
FOR5	385 H5	Meadowridge	38.446	-122.610
FOR6	365 D4	Calistoga	38.506	-122.650
FOR7	365 D1	Calistoga	38.520	-122.658
FOR8	344 J4	Porter Creek	38.557	-122.694
FOR9	385 D6	Parktrail	38.441	-122.652
FOR10	365 F3	St Helena	38.512	-122.639
FOR11	363 J1	Old Redwood Hwy	38.521	-122.775
FOR12	343 F1	Brooks	38.572	-122.798
FOR13	404 H2	Meda	38.417	-122.691
ORCH1	383 A3	Laguna	38.459	-122.847
ORCH 2	363 F6	River	38.490	-122.803
ORCH 3	363 F1	Conde	38.527	-122.798
ORCH 4	363 E6	Woolsey	38.484	-122.816
RANG1	424 J4	Snyder	38.355	-122.686
RANG 2	424 J3	Snyder	38.361	-122.686
RANG 3	425 B5	Petaluma Hill	38.342	-122.667
SEPT1	423 J4	Daywalt	38.352	-122.767
SEPT2	403 E6	Cooper	38.388	-122.802
SEPT3	383 A7	Occidental	38.416	-122.828
SEPT4	403 C2	High School	38.380	-122.819
SEPT5	403 C7	Elphick	38.382	-122.807
SEPT6	403 E7	Bassingnini	38.350	-122.820
SEPT7	423 D4	Bloomfield	38.348	-122.778
SEPT8	423 H4	Hessel	38.321	-122.756
SEPT9	444 A1	Roblar	38.463	-122.721
SEWR1	384 E3	Major	38.400	-122.820
SEWR2	403 C4	Petaluma	38.425	-122.772
SEWR3	403 H1	Occidental	38.472	-122.702
SEWR5	384 G2	Chanate	38.442	-122.681
SEWR6	385 B2	Rincon	38.444	-122.675
SEWR7	385 A6	Franquette	38.457	-122.752
SEWR9	385 A6	Yulupa	38.437	-122.725

Appendix B1: Water Sample Results

Below minimum detection limit (MDL) results are shown as < MDL value.

Sample Date	Site ID	Total Phosphorus (mg/L)	Dissolved Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	Nitrate + Nitrite (mg/L)	Total Suspended Solids (mg/L)	Fine Suspended Solids (63 - 0.7 um mg/L)	Coarse Suspended Soilds (> 63um mg/L)	Total Organic Carbon (mg/L)
4/8/2009	COM2	0.101	0.098	0.608	0.042	0.608	15	15	15	5.28
4/8/2009	COM5	0.068	0.063	0.939	0.038	0.952	15	15	15	3.027
4/8/2009	FOR10	0.035	0.036	<0.025	0.040	0.049	15	15	15	3.938
4/8/2009	FOR13	0.069	0.066	0.073	0.043	0.051	15	15	15	5.484
4/8/2009	FOR2	0.029	0.029	0.041	0.041	0.056	15	15	15	4.933
4/8/2009	FOR4	0.035	0.020	0.030	0.037	0.061	15	15	15	4.069
4/8/2009	FOR6	0.033	0.024	0.048	0.039	0.059	15	15	15	4.351
4/8/2009	FOR7	0.068	0.059	0.158	0.037	0.054	15	15	15	5.375
4/8/2009	FOR8	0.040	0.041	0.293	0.065	0.077	15	15	15	3.965
4/21/2009	COM3	0.062	0.056	0.323	0.084	0.543	15	15	15	5.575
4/21/2009	CROP5	0.362	0.243	0.516	0.161	0.568	15	15	15	4.09
4/21/2009	FOR1	0.108	0.062	0.207	0.084	0.481	15	15	15	2.748
4/21/2009	FOR11	0.078	0.064	0.872	0.116	0.973	15	15	15	2.345
4/21/2009	FOR12	0.053	0.035	0.255	0.081	0.478	15	15	15	3.165
4/21/2009	FOR3	0.061	0.054	0.215	0.084	0.493	15	15	15	2.987
4/21/2009	ORCH3	0.135	0.086	0.496	0.141	0.599	15	15	15	3.733
4/21/2009	SEWR6	0.659	0.045	0.305	0.081	0.490	<15	<15	<15	3.135

Sample Date	Site ID	Total Phosphorus (mg/L)	Dissolved Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	Nitrate + Nitrite (mg/L)	Total Suspended Solids (mg/L)	Fine Suspended Solids (63 - 0.7 um mg/L)	Coarse Suspended Soilds (> 63um mg/L)	Total Organic Carbon (mg/L)
4/23/2009	COM1	0.239	0.196	0.584	0.126	0.645	15	15	15	11.13
4/23/2009	COM6	0.670	0.473	1.020	1.035	0.448	29	15	25	5.171
4/23/2009	CROP1	0.606	0.544	1.058	0.126	0.912	15	15	15	4.219
4/23/2009	CROP2	6.675	2.350	25.300	24.400	0.525	42	35	15	30.72
4/23/2009	CROP3	0.130	0.127	0.778	0.135	0.745	15	15	15	6.734
4/23/2009	CROP4	0.803	0.660	0.911	0.163	0.506	15	15	15	16.74
4/23/2009	CROP6	0.085	0.060	0.265	0.080	0.488	15	15	15	3.035
4/23/2009	ORCH1	0.405	0.127	0.635	0.104	0.816	15	15	15	2.709
4/23/2009	ORCH2	1.760	1.295	1.435	0.650	0.494	15	15	15	11.16
4/23/2009	ORCH4	0.411	0.126	1.077	0.241	0.465	15	15	15	18.75
4/23/2009	RANG1	0.176	0.136	0.384	0.111	0.490	15	15	15	3.843
4/23/2009	RANG3	0.107	0.098	0.469	0.104	0.499	685	47	638	2.759
4/23/2009	SEPT1	0.560	0.206	0.914	0.188	0.528	15	15	15	11.43
4/23/2009	SEPT2	0.446	0.260	1.196	0.146	0.995	20	15	15	5.009
4/23/2009	SEWR1	0.453	0.393	0.658	0.117	0.667	<15	<15	<15	4.96
4/23/2009	SEWR2	0.231	0.176	1.782	0.172	1.645	24	<15	17	3.145
4/28/2009	COM3	0.174	0.074	0.306	0.097	0.531	43	15	38	5.39
4/28/2009	CROP3	0.844	0.130	0.599	0.162	0.716	15	15	15	3.709
4/28/2009	CROP4	0.855	0.638	0.854	0.268	0.540	15	15	15	12.28
4/28/2009	ORCH1	0.154	0.117	0.735	0.134	0.807	15	15	15	3.343

Sample Date	Site ID	Total Phosphorus (mg/L)	Dissolved Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	Nitrate + Nitrite (mg/L)	Total Suspended Solids (mg/L)	Fine Suspended Solids (63 - 0.7 um mg/L)	Coarse Suspended Soilds (> 63um mg/L)	Total Organic Carbon (mg/L)
4/28/2009	ORCH2	0.859	1.665	1.077	0.362	0.550	30	15	26	18.75
4/28/2009	ORCH4	0.159	0.042	0.766	0.183	0.498	15	15	15	12.85
4/28/2009	SEPT2	0.095	0.208	1.233	0.186	1.105	26	15	18	8.973
4/28/2009	SEWR2	0.430	0.123	1.879	0.177	1.805	<15	<15	<15	3.13
5/5/2009	COM2	0.085	0.077	0.873	0.052	0.629	15	15	15	5.258
5/5/2009	COM5	0.530	0.150	1.389	0.046	1.080	15	15	15	3.105
5/5/2009	CROP1	1.130	0.650	4.225	0.778	2.120	54	30	24	21.17
5/5/2009	CROP2	18.000	6.750	128.100	115.000	0.047	551	103	448	172
5/5/2009	CROP6	0.277	0.250	1.432	0.095	1.080	15	15	15	9.397
5/5/2009	FOR13	0.155	0.080	0.602	0.106	0.097	43	37	15	14.3
5/5/2009	RANG1	0.173	0.160	0.682	0.129	0.420	17	15	15	6.15
5/5/2009	RANG2	1.005	0.673	3.078	0.534	1.655	100	90	15	19.02
5/5/2009	RANG3	0.160	0.093	0.555	0.083	0.196	36	25	15	7.174
5/5/2009	SEPT1	1.370	1.010	2.793	0.351	0.870	17	15	15	25.05
5/5/2009	SEWR3	0.200	0.196	1.343	0.110	0.902	<15	<15	<15	6.565
5/7/2009	COM1	0.109	0.088	0.929	0.090	0.627	15	15	15	4.792
5/7/2009	COM6	0.138	0.123	0.872	0.147	0.676	15	15	15	2.926
5/7/2009	CROP1	6.425	0.303	1.421	0.243	0.546	15	15	15	10.45
5/7/2009	CROP2	0.903	2.590	22.670	17.290	0.215	32	28	15	37.11
5/7/2009	CROP5	0.259	0.169	0.541	0.172	0.190	15	15	15	6.28

Sample Date	Site ID	Total Phosphorus (mg/L)	Dissolved Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	Nitrate + Nitrite (mg/L)	Total Suspended Solids (mg/L)	Fine Suspended Solids (63 - 0.7 um mg/L)	Coarse Suspended Soilds (> 63um mg/L)	Total Organic Carbon (mg/L)
5/7/2009	CROP6	0.146	0.107	1.058	0.111	0.939	15	15	15	4.137
5/7/2009	FOR1	0.065	0.055	0.268	0.131	0.048	19	17	15	5.707
5/7/2009	FOR11	0.092	0.068	0.794	0.214	0.647	19	17	15	5.463
5/7/2009	FOR12	0.060	0.054	0.644	0.148	0.323	15	15	15	5.351
5/7/2009	FOR3	0.076	0.059	0.315	0.093	0.075	15	15	15	5.056
5/7/2009	ORCH3	0.110	0.099	1.130	0.127	0.937	20	20	15	5.127
5/7/2009	RANG1	0.111	0.088	0.422	0.085	0.148	15	15	15	4.994
5/7/2009	RANG2	0.507	0.374	1.030	0.078	0.248	15	15	15	11.48
5/7/2009	RANG3	0.076	0.080	0.269	0.071	0.065	15	15	15	3.544
5/7/2009	SEPT1	0.904	0.524	1.910	0.333	0.481	15	<15	<15	19.8
5/7/2009	SEWR1	0.269	0.221	0.747	0.165	0.399	<15	<15	<15	5.863
5/7/2009	SEWR5	0.112	0.051	0.655	0.137	0.058	<15	<15	<15	10.09
6/4/2009	COM10	0.089	0.130	1.801	0.149	1.030	15	15	15	3.514
6/4/2009	COM2	0.271	0.060	0.943	0.051	0.793	15	15	15	0.7522
6/4/2009	COM3	0.190	0.050	0.516	0.060	0.058	28	15	22	15.39
6/4/2009	COM5	0.088	0.073	0.760	0.048	0.670	15	15	15	0.3457
6/4/2009	CROP3	0.477	0.286	1.003	0.251	0.354	15	15	15	4.408
6/4/2009	CROP4	0.187	0.926	1.076	0.152	0.121	15	15	15	10.28
6/4/2009	FOR13	0.087	0.128	0.841	0.080	0.054	15	15	15	9.373
6/4/2009	FOR5	0.098	0.034	1.522	0.076	1.325	15	15	15	1.437

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6/4/2009	ORCH1	0.346	0.122	0.608	0.108	0.371	15	15	15	2.658
6/4/2009	ORCH2	3.440	1.325	0.861	0.229	0.027	15	15	15	14.51
6/4/2009	ORCH4	1.880	0.034	0.673	0.233	0.023	15	15	15	11.88
6/4/2009	SEPT2	0.197	0.221	0.916	0.085	0.484	26	15	15	4.585
6/4/2009	SEWR2	0.202	0.143	1.706	0.114	1.380	<15	<15	<15	2.864
6/4/2009	SEWR3	0.492	0.121	0.470	0.044	0.030	<15	<15	<15	5.582
7/1/2009	CROP5	0.340	0.348	0.639	0.160	0.137	15	15	15	5.971
7/1/2009	FOR1	0.067	0.062	0.258	0.087	0.063	15	15	15	0.959
7/1/2009	FOR10	0.045	0.050	0.204	0.086	0.077	15	15	15	2.818
7/1/2009	FOR12	0.034	0.019	0.338	0.102	0.065	15	15	15	4.669
7/1/2009	FOR2	0.026	0.029	0.224	0.089	0.100	15	15	15	2.642
7/1/2009	FOR3	0.060	0.069	0.219	0.090	0.071	15	15	15	3.522
7/1/2009	FOR4	0.025	0.020	0.166	0.084	0.068	15	15	15	2.739
7/1/2009	FOR6	0.025	0.018	0.201	0.088	0.070				3.362
7/1/2009	FOR7	0.082	0.101	0.281	0.085	0.167	15	15	15	2.68
7/1/2009	FOR8	0.029	0.019	0.194	0.084	0.062	15	15	15	2.957
7/1/2009	ORCH3	0.201	0.093	0.640	0.395	0.078	15	15	15	5.06
8/4/2009	COM1	0.121	0.072	0.347	<0.08	0.045	15	15	15	5.327
8/4/2009	COM10	0.130	0.087	4.511	0.009	1.050	15	15	15	7.06
8/4/2009	CROP3	0.394	0.279	0.522	0.072	0.078	15	15	15	7.182

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8/4/2009	CROP4	0.507	0.321	0.860	0.090	0.210	18	15	15	8.27
8/4/2009	CROP5	0.611	0.368	0.673	0.015	0.020	15	15	15	9.106
8/4/2009	FOR1	0.207	0.146	0.307	0.010	0.015	15	15	15	5.863
8/4/2009	FOR12	0.055	<0.010	0.548	<0.08	<0.010	15	15	15	10.52
8/4/2009	FOR3	0.187	0.144	0.227	<0.08	0.011	15	15	15	5.495
8/4/2009	FOR5	0.050	0.031	1.712	0.023	1.460	15	15	15	4.258
8/4/2009	ORCH1	0.168	0.110	0.709	0.025	0.320	17	15	15	5.291
8/4/2009	ORCH3	0.252	0.095	1.001	0.768	0.045	15	15	15	5.724
8/4/2009	SEPT2	0.425	0.259	0.831	0.096	0.232	15	15	15	6.469
8/4/2009	SEWR2	0.590	0.088	1.433	0.107	1.085	143	54	89	5.751
10/13/2009	CROP1	1.240	1.050	4.227	0.705	0.032	27	17	15	17.28
10/13/2009	CROP2	1.530	1.035	2.613	1.545	0.336	18	15	15	13.31
10/13/2009	CROP6	0.530	0.260	1.308	0.329	0.782	15	15	15	9.639
10/13/2009	RANG1	0.381	0.241	1.659	0.376	0.848	64	51	15	10.47
10/13/2009	SEPT1	1.525	1.255	2.182	0.244	1.045	42	32	<15	24.89
10/13/2009	SEPT2	1.285	0.433	3.131	0.437	1.955	399	261	138	17.24
10/13/2009	SEPT5	1.345	0.559	2.252	0.807	1.165	740	679	61	19.66
10/13/2009	SEPT6	5.200	0.200	1.986	0.350	1.240	1788	1535	253	17.43
10/13/2009	SEPT7	1.285	0.569	2.135	0.381	1.004	326	17	309	20.87
10/13/2009	SEPT8	0.327	0.465	1.428	0.259	0.619	19	<15	<15	7.899

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10/13/2009	SEPT9	0.638	0.476	2.126	0.356	1.055	35	26	<15	21
10/13/2009	SEWR2	0.447	0.196	0.792	0.216	0.434	45	19	26	7.644
10/15/2009	CROP3	0.572	0.445	1.657	0.082	0.607	15	15	15	17.6
10/15/2009	CROP4	1.020	0.865	1.624	0.161	0.278	15	15	15	18.8
10/15/2009	FOR10	0.073	0.059	0.648	0.046	0.341	15	15	15	8.602
10/15/2009	FOR2	0.078	0.845	1.244	0.166	0.268	15	15	15	11.23
10/15/2009	FOR4	0.073	0.038	0.529	0.046	0.190	15	15	15	5.765
10/15/2009	FOR6	0.136	0.075	1.251	0.025	0.547	15	15	15	12.94
10/15/2009	FOR7	0.097	0.071	0.848	0.055	0.484	15	15	15	9.687
10/15/2009	FOR8	0.076	0.040	0.769	0.027	0.367	15	15	15	8.337
10/15/2009	ORCH1	0.198	0.142	0.587	0.051	0.249	16	15	15	6.171
10/15/2009	ORCH4	0.894	0.522	1.426	0.053	0.405	32	28	15	35.66
10/15/2009	SEPT3	0.901	0.420	2.972	0.099	1.415	184	80	105	27.88
12/16/2009	COM10	0.096	0.101	0.824	0.067	0.684	15	15	15	2.569
12/16/2009	COM3	0.364	0.089	0.901	0.159	0.537	72	19	53	6.135
12/16/2009	COM4	0.241	0.100	0.743	0.112	0.458	52	32	19	7.131
12/16/2009	COM5	0.127	0.099	0.740	0.076	0.431	15	15	15	5.064
12/16/2009	CROP1	0.637	0.369	1.955	0.356	1.055	34	32	15	11.85
12/16/2009	CROP2	1.285	0.614	1.846	0.705	0.850	15	15	15	9.3
12/16/2009	CROP3	0.513	0.405	1.723	0.065	1.155	15	15	15	10.91

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12/16/2009	CROP4	0.740	0.508	1.775	0.103	0.838	31	27	15	13.25
12/16/2009	CROP6	0.321	0.270	0.649	0.036	0.326	15	15	15	8.25
12/16/2009	FOR13	0.303	0.240	0.866	0.058	0.320	19	19	15	12.92
12/16/2009	FOR5	0.065	0.052	0.889	0.057	0.698	15	15	15	5.946
12/16/2009	FOR9	0.057	0.025	0.357	0.040	0.137	15	15	15	5.304
12/16/2009	ORCH1	0.190	0.090	0.763	0.051	0.388	23	19	15	11.23
12/16/2009	ORCH2	1.100	0.803	2.130	0.098	1.170	47	43	15	15.4
12/16/2009	ORCH4	0.338	0.213	2.098	0.096	1.550	26	23	15	13.18
12/16/2009	RANG1	0.298	0.285	3.197	0.064	2.755	15	15	15	10.4
12/16/2009	RANG2	0.658	0.492	2.177	0.071	1.760	79	74	15	9.837
12/16/2009	SEPT4	0.227	0.134	2.897	0.062	2.420	146	<15	137	9.653
12/16/2009	SEWR7	0.295	0.250	0.803	0.057	0.470	<15	<15	<15	9.482
12/16/2009	SEWR9	0.450	0.397	2.502	0.062	2.130	<15	<15	<15	11.22
12/17/2009	FOR4	0.043	0.029	0.521	0.081	0.520	15	15	15	4.722
12/17/2009	FOR6	0.043	0.035	0.591	0.048	0.237	15	15	15	7.258
12/17/2009	FOR7	0.072	0.058	0.671	0.063	0.344	15	15	15	9.205
12/17/2009	SEPT1	0.486	0.335	2.974	0.180	2.020	15	<15	<15	16.47
12/17/2009	SEPT2	0.241	0.162	2.430	0.117	1.980	15	<15	<15	13.03
12/17/2009	SEPT6	0.202	0.116	2.223	0.096	1.780	<15	<15	<15	11.76
12/17/2009	SEPT7	0.319	0.225	2.654	0.086	2.095	19	<15	<15	12.29

Sample Date	Site ID	Total Phosphorus (mg/L)	Dissolved Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	Nitrate + Nitrite (mg/L)	Total Suspended Solids (mg/L)	Fine Suspended Solids (63 - 0.7 um mg/L)	Coarse Suspended Soilds (> 63um mg/L)	Total Organic Carbon (mg/L)
12/17/2009	SEPT8	0.324	0.162	3.777	0.181	3.255	<15	<15	<15	13.89
12/17/2009	SEWR2	0.169	0.125	2.020	0.064	1.635	<15	<15	<15	10.92
1/13/2010	COM1	0.121	0.105	2.651	0.057	2.370	15	15	15	4.55
1/13/2010	COM10	0.087	0.092	0.843	0.032	0.766	15	15	15	1.429
1/13/2010	COM2	0.079	0.069	0.578	0.031	0.395	15	15	15	3.501
1/13/2010	COM3	0.332	0.079	1.014	0.043	0.806	17	15	15	3.195
1/13/2010	COM6	0.113	0.088	2.687	0.121	2.305	15	15	15	4.223
1/13/2010	CROP3	0.439	0.326	1.675	0.077	0.916	22	20	15	11.32
1/13/2010	CROP4	0.522	0.408	1.477	0.132	0.705	15	15	15	10.67
1/13/2010	CROP5	0.235	0.154	0.832	0.090	0.263	27	21	15	9.107
1/13/2010	ORCH2	1.210	0.901	3.077	0.343	1.415	67	52	15	19.92
1/13/2010	ORCH3	0.291	0.218	1.305	0.096	0.816	17	15	15	9.76
1/13/2010	ORCH4	0.391	0.218	7.826	0.098	6.965	63	51	15	13.11
1/13/2010	SEPT5	0.361	0.210	1.686	0.108	0.854	21	17	<15	21.19
1/13/2010	SEPT6	0.348	0.161	1.777	0.252	0.975	47	43	<15	16.2
1/13/2010	SEPT7	0.372	0.201	2.377	0.118	1.675	44	38	<15	14.78
1/13/2010	SEWR1	0.251	0.174	0.909	0.060	0.307	<15	<15	<15	11.72
1/13/2010	SEWR2	0.276	0.171	1.562	0.083	0.961	32	23	<15	14.07
1/13/2010	SEWR3	0.181	0.102	0.734	0.135	0.415	25	23	<15	4.148
1/13/2010	SEWR5	0.445	0.387	5.973	0.061	5.180	<15	<15	<15	14.48

Sample Date	Site ID	Total Phosphorus (mg/L)	Dissolved Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	Nitrate + Nitrite (mg/L)	Total Suspended Solids (mg/L)	Fine Suspended Solids (63 - 0.7 um mg/L)	Coarse Suspended Soilds (> 63um mg/L)	Total Organic Carbon (mg/L)
1/13/2010	SEWR9	0.571	0.435	2.573	0.074	1.990	111	<15	100	9.155
1/19/2010	COM1	0.382	0.271	1.224	0.148	0.797	26	22	15	5.767
1/19/2010	COM4	0.185	0.051	0.278	0.115	0.040	93	46	46	3.515
1/19/2010	ORCH1	0.708	0.222	0.927	0.056	0.423	259	180	79	11.12
1/19/2010	ORCH2	1.285	0.703	1.483	0.216	0.744	161	155	15	8.058
1/19/2010	ORCH4	0.830	0.405	1.692	0.116	1.090	154	139	15	8.644
1/19/2010	RANG1	1.395	0.224	1.226	0.121	0.610	1106	1012	94	9.809
1/19/2010	RANG2	4.500	0.500	2.011	0.279	0.999	1997	1862	135	13.28
1/19/2010	RANG3	1.090	0.147	1.211	0.078	0.767	871	810	60	7.492
1/19/2010	SEWR1	0.341	0.169	0.689	0.068	0.413	63	46	17	4.596
1/19/2010	SEWR3	0.346	0.269	1.380	0.165	0.957	19	17	<15	5.271
1/19/2010	SEWR5	0.533	0.370	1.553	0.064	1.095	62	51	<15	8.793
1/26/2010	COM4	0.211	0.090	0.706	0.118	0.251	36	20	16	5.206
1/26/2010	ORCH1	0.225	0.131	0.894	0.056	0.412	25	25	15	10.99
1/26/2010	ORCH2	0.647	0.487	2.760	0.127	2.255	39	39	15	6.249
1/26/2010	ORCH3	0.147	0.085	0.902	0.035	0.524	19	19	15	6.516
1/26/2010	ORCH4	0.420	0.278	1.149	0.061	0.672	19	19	15	6.726
1/26/2010	RANG1	0.190	0.113	1.093	0.033	0.573	15	15	15	7.867
1/26/2010	RANG2	0.508	0.334	2.022	0.108	1.245	88	88	15	10.78
1/26/2010	RANG3	0.121	0.101	0.819	0.027	0.496	15	15	15	5.412

Sample Date	Site ID	Total Phosphorus (mg/L)	Dissolved Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	Nitrate + Nitrite (mg/L)	Total Suspended Solids (mg/L)	Fine Suspended Solids (63 - 0.7 um mg/L)	Coarse Suspended Soilds (> 63um mg/L)	Total Organic Carbon (mg/L)
1/26/2010	SEWR5	0.601	0.476	1.588	0.034	0.998	<15	<15	<15	10.36
1/26/2010	SEWR7	0.107	0.080	0.974	0.047	0.253	<15	<15	<15	5.55
1/26/2010	SEWR9	0.701	0.661	1.983	0.035	1.580	<15	<15	<15	7.935
2/9/2010	ORCH1	0.203	0.085	0.677	0.050	0.313	15	15	15	10.97
2/9/2010	ORCH2	1.140	0.774	2.097	0.313	1.265	57	57	15	9.179
2/9/2010	ORCH3	0.211	0.134	0.764	0.035	0.517	15	15	15	6.165
2/9/2010	ORCH4	0.414	0.307	0.955	0.144	0.325	15	15	15	9.093
2/9/2010	RANG1	0.173	0.107	0.682	0.042	0.307	15	15	15	7.173
2/9/2010	RANG2	0.539	0.338	1.896	0.094	1.320	35	33	15	10.01
2/9/2010	RANG3	0.140	0.074		0.050	0.255	33	33	15	
2/16/2010	ORCH2	0.616	0.496	1.916	0.032	1.575	15	15	15	7.076
2/16/2010	ORCH4	0.352	0.243	0.705	0.044	0.223	15	15	15	8.27
2/16/2010	RANG1	0.141	0.098	0.921	0.034	0.714	15	15	15	5.017
2/16/2010	RANG2	0.388	0.303	1.751	0.027	1.420	15	15	15	7.661
2/16/2010	RANG3	0.087	0.085	0.353	0.023	0.229	15	15	15	3.577
2/16/2010	SEPT2	0.440	0.234	1.507	0.078	0.915	15	15	15	13.39
2/16/2010	SEPT4	0.163	0.130	1.493	0.038	0.961	15	15	15	10.51
2/16/2010	SEPT5	0.148	0.080	0.987	0.028	0.521	15	15	15	9.645
2/16/2010	SEPT6	0.288	0.145	1.386	0.050	0.907	15	15	15	12.6
2/16/2010	SEPT7	0.182	0.094	0.735	0.065	0.335	15	15	15	8.54

Sample Date	Site ID	Total Phosphorus (mg/L)	Dissolved Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	Nitrate + Nitrite (mg/L)	Total Suspended Solids (mg/L)	Fine Suspended Solids (63 - 0.7 um mg/L)	Coarse Suspended Soilds (> 63um mg/L)	Total Organic Carbon (mg/L)
2/16/2010	SEPT8	0.311	0.098	2.911	0.099	2.280	15	15	15	13.11
2/16/2010	SEWR2	0.256	0.166	1.924	0.035	1.705	<15	<15	<15	9.515
2/17/2010	COM1	0.330	0.319	3.293	0.021	2.605	15	15	15	6.462
2/17/2010	COM10	0.075	0.073	0.698	<0.08	0.678	106	106	15	2.269
2/17/2010	COM3	0.098	0.057	0.242	0.011	0.154	15	15	15	3.948
2/17/2010	COM5	0.092	0.094	1.945	0.011	1.860	15	15	15	1.857
2/17/2010	COM6	0.063	0.035	0.641	0.035	0.509	15	15	15	2.562
2/17/2010	RANG1	0.089	0.089	0.931	<0.08	0.693	15	15	15	4.492
2/17/2010	RANG2	0.355	0.342	1.639	0.019	1.210	15	15	15	7.384
2/17/2010	RANG3	0.079	0.078	0.492	0.027	0.208	15	15	15	3.893
2/17/2010	SEWR1	0.225	0.186	0.588	0.037	0.368	<15	<15	<15	4.719
2/17/2010	SEWR3	0.119	0.093	2.580	0.038	2.290	<15	<15	<15	3.708
2/17/2010	SEWR9	0.281	0.208	1.097	0.011	1.020	<15	<15	<15	2.225
2/18/2010	COM3	0.070	0.051	0.342	0.027	0.150	15	15	15	4.058
2/18/2010	COM5	0.103	0.095	2.001	0.010	1.790	15	15	15	1.867
2/18/2010	RANG1	0.092	0.092	0.966	0.063	0.687	20	20	15	4.383
2/18/2010	RANG2	0.376	0.312	1.601	0.036	1.090	15	15	15	7.028
2/18/2010	RANG3	0.080	0.078	0.507	0.117	0.168	15	15	15	3.897
2/18/2010	SEPT1	0.873	0.551	3.101	0.123	1.490	17	15	15	21.17
2/18/2010	SEPT2	0.407	0.237	1.695	0.083	0.913	28	28	15	12.99

Sample Date	Site ID	Total Phosphorus (mg/L)	Dissolved Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	Nitrate + Nitrite (mg/L)	Total Suspended Solids (mg/L)	Fine Suspended Solids (63 - 0.7 um mg/L)	Coarse Suspended Soilds (> 63um mg/L)	Total Organic Carbon (mg/L)
2/18/2010	SEPT4	0.165	0.139	1.410	0.058	0.695	15	15	15	10.59
2/18/2010	SEPT6	0.277	0.146	1.528	0.061	0.829	15	15	15	12.47
2/18/2010	SEPT7	0.180	0.092	0.859	0.072	0.313	45	15	36	8.45
2/18/2010	SEPT8	0.291	0.094	2.953	0.087	2.075	15	15	15	12.91
2/18/2010	SEPT9	0.088	0.033	0.765	0.031	0.074	15	15	15	10.1
2/18/2010	SEWR1	0.219	0.188	0.646	0.042	0.336	<15	<15	<15	4.756
2/18/2010	SEWR2	0.222	0.155	2.089	0.036	1.625	<15	<15	<15	8.257
2/18/2010	SEWR3	0.144	0.118	2.503	0.068	2.055	<15	<15	<15	3.369
2/18/2010	SEWR5	0.081	0.031	0.444	0.019	<0.010	15	<15	<15	7.21
2/18/2010	SEWR9	0.281	0.223	1.430	0.025	1.180	<15	<15	<15	2.446
3/8/2010	COM2	0.104	0.087	1.744	0.023	1.555	15	15	15	1.785
3/8/2010	RANG1	0.106	0.082	0.853	0.023	0.565	15	15	15	4.617
3/8/2010	RANG2	0.382	0.308	2.433	0.058	1.780	15	15	15	7.427
3/8/2010	RANG3	0.097	0.077	0.693	0.051	0.180	116	15	116	4.377
3/9/2010	RANG1	0.099	0.081	0.930	0.012	0.659	15	15	15	4.415
3/9/2010	RANG2	0.340	0.325	2.412	0.029	2.700	15	15	15	6.89
3/9/2010	RANG3	0.081	0.067		<0.08	0.198	15	15	15	

Appendix C: Water Sample Result Sample Sizes

Constituent	Commercial & Services		Residential - Sewered		Residential - Septic		Forest Land		Rangeland		Cropland & Pasture		Orchards & Vineyards	
	Number of Samples	Number <MDL	Number of Samples	Number <MDL	Number of Samples	Number <MDL	Number of Samples	Number <MDL	Number of Samples	Number <MDL	Number of Samples	Number <MDL	Number of Samples	Number <MDL
Total Phosphorus	36	0	34	0	37	0	43	0	35	0	34	0	35	0
Dissolved Phosphorus	36	0	34	0	37	0	42	1	35	0	34	0	35	0
Total Nitrogen	36	0	34	0	37	0	42	1	33	0	34	0	35	0
Ammonia-N	34	2	34	0	37	0	41	2	33	2	34	0	35	0
Nitrate + Nitrite-N	36	0	33	1	37	0	42	1	35	0	34	0	35	0
Total Suspended Solids	36	0	10	24	35	2	42	0	35	0	34	0	35	0
Coarse Suspended Solids (>63µm)	36	0	7	27	29	8	42	0	35	0	34	0	35	0
Fine Suspended Solids (<63µm)	36	0	5	29	25	12	42	0	35	0	34	0	35	0
Total Organic Carbon	36	0	34	0	37	0	43	0	33	0	34	0	35	0

Appendix D: Blank Sample Results

Constituent	Sample Date	Result (mg/L)
Total Nitrogen	4/8/2009	Not Detected
Total Nitrogen	4/21/2009	Not Detected
Total Nitrogen	4/23/2009	Not Detected
Total Nitrogen	5/7/2009	Not Detected
Total Nitrogen	6/4/2009	Not Detected
Total Nitrogen	7/1/2009	Not Detected
Total Nitrogen	10/13/2009	Not Detected
Total Nitrogen	10/15/2009	Not Detected
Total Nitrogen	12/16/2009	Not Detected
Total Nitrogen	1/19/2010	Not Detected
Total Nitrogen	1/26/2010	Not Detected
Total Nitrogen	2/9/2010	Not Detected
Total Nitrogen	2/17/2010	Not Detected
Total Nitrogen	2/18/2010	Not Detected
Total Nitrogen	3/8/2010	Not Detected
Total Nitrogen	3/9/2010	Not Detected
Ammonia	4/8/2009	0.044
Ammonia	4/21/2009	0.086
Ammonia	4/23/2009	0.085
Ammonia	5/7/2009	0.043
Ammonia	6/4/2009	Not Detected
Ammonia	7/1/2009	0.081
Ammonia	10/13/2009	Not Detected
Ammonia	10/15/2009	Not Detected
Ammonia	12/16/2009	Not Detected
Ammonia	1/19/2010	Not Detected
Ammonia	1/26/2010	Not Detected
Ammonia	2/9/2010	Not Detected
Ammonia	2/17/2010	Not Detected
Ammonia	2/18/2010	Not Detected
Ammonia	3/8/2010	Not Detected
Ammonia	3/9/2010	Not Detected
Nitrate + Nitrite	4/8/2009	Not Detected
Nitrate + Nitrite	4/21/2009	0.486

Constituent	Sample Date	Result (mg/L)
Nitrate + Nitrite	4/23/2009	0.475
Nitrate + Nitrite	5/7/2009	Not Detected
Nitrate + Nitrite	6/4/2009	Not Detected
Nitrate + Nitrite	7/1/2009	0.072
Nitrate + Nitrite	10/13/2009	Not Detected
Nitrate + Nitrite	10/15/2009	Not Detected
Nitrate + Nitrite	12/16/2009	Not Detected
Nitrate + Nitrite	1/19/2010	Not Detected
Nitrate + Nitrite	1/26/2010	Not Detected
Nitrate + Nitrite	2/9/2010	Not Detected
Nitrate + Nitrite	2/17/2010	Not Detected
Nitrate + Nitrite	2/18/2010	Not Detected
Nitrate + Nitrite	3/8/2010	Not Detected
Nitrate + Nitrite	3/9/2010	Not Detected
Total Phosphorus	4/8/2009	Not Detected
Total Phosphorus	4/21/2009	Not Detected
Total Phosphorus	4/23/2009	Not Detected
Total Phosphorus	5/7/2009	Not Detected
Total Phosphorus	6/4/2009	Not Detected
Total Phosphorus	7/1/2009	Not Detected
Total Phosphorus	10/13/2009	Not Detected
Total Phosphorus	10/15/2009	Not Detected
Total Phosphorus	12/16/2009	Not Detected
Total Phosphorus	1/19/2010	Not Detected
Total Phosphorus	1/26/2010	Not Detected
Total Phosphorus	2/9/2010	Not Detected
Total Phosphorus	2/17/2010	Not Detected
Total Phosphorus	2/18/2010	Not Detected
Total Phosphorus	3/8/2010	Not Detected
Total Phosphorus	3/9/2010	Not Detected
Dissolved Phosphorus	4/8/2009	Not Detected
Dissolved Phosphorus	4/21/2009	Not Detected
Dissolved Phosphorus	4/23/2009	Not Detected
Dissolved Phosphorus	5/7/2009	Not Detected
Dissolved Phosphorus	6/4/2009	Not Detected
Dissolved Phosphorus	7/1/2009	Not Detected

Constituent	Sample Date	Result (mg/L)
Dissolved Phosphorus	10/13/2009	Not Detected
Dissolved Phosphorus	10/15/2009	Not Detected
Dissolved Phosphorus	12/16/2009	Not Detected
Dissolved Phosphorus	1/19/2010	Not Detected
Dissolved Phosphorus	1/26/2010	Not Detected
Dissolved Phosphorus	2/9/2010	Not Detected
Dissolved Phosphorus	2/17/2010	Not Detected
Dissolved Phosphorus	2/18/2010	Not Detected
Dissolved Phosphorus	3/8/2010	Not Detected
Dissolved Phosphorus	3/9/2010	Not Detected
Total Suspended Solids	4/8/2009	Not Detected
Total Suspended Solids	4/21/2009	Not Detected
Total Suspended Solids	4/23/2009	Not Detected
Total Suspended Solids	5/7/2009	Not Detected
Total Suspended Solids	7/1/2009	Not Detected
Total Suspended Solids	10/13/2009	Not Detected
Total Suspended Solids	10/15/2009	Not Detected
Total Suspended Solids	12/16/2009	Not Detected
Total Suspended Solids	1/19/2010	Not Detected
Total Suspended Solids	1/26/2010	Not Detected
Total Suspended Solids	2/9/2010	Not Detected
Total Suspended Solids	2/17/2010	Not Detected
Total Suspended Solids	2/18/2010	Not Detected
Total Suspended Solids	3/8/2010	Not Detected
Total Suspended Solids	3/9/2010	Not Detected
Total Organic Carbon	4/8/2009	2.771
Total Organic Carbon	4/21/2009	1.004
Total Organic Carbon	4/23/2009	0.470
Total Organic Carbon	5/7/2009	1.137
Total Organic Carbon	6/4/2009	0.294
Total Organic Carbon	7/1/2009	1.303
Total Organic Carbon	10/13/2009	1.183
Total Organic Carbon	10/15/2009	1.187
Total Organic Carbon	12/16/2009	1.042
Total Organic Carbon	1/19/2010	0.715
Total Organic Carbon	1/26/2010	0.632

Constituent	Sample Date	Result (mg/L)
Total Organic Carbon	2/9/2010	1.194
Total Organic Carbon	2/17/2010	1.639
Total Organic Carbon	2/18/2010	1.195
Total Organic Carbon	3/8/2010	1.064
Total Organic Carbon	3/9/2010	1.083

Appendix E: Replicate Sample Results

Constituent	Sample Date	Site_ID	Triplicate Median (mg/L)	Triplicate Mean (mg/L)	90% Confidence Level (mg/L)	Median Confidence Level (mg/L)
Total Nitrogen	4/8/2009	FOR10	-0.013	-0.015	0.034	0.030
	4/28/2009	CROP4	0.854	0.846	0.040	
	4/28/2009	ORCH1	0.735	0.739	0.014	
	5/5/2009	CROP6	1.432	1.477	0.087	
	5/5/2009	RANG1	0.682	0.692	0.027	
	5/7/2009	SEPT1	1.910	1.905	0.029	
	5/7/2009	SEWR1	0.747	0.745	0.021	
	6/4/2009	COM5	0.760	0.781	0.047	
	6/4/2009	SEWR2	1.706	1.679	0.053	
	7/1/2009	FOR12	0.338	0.338	0.030	
	8/4/2009	FOR5	1.712	1.722	0.035	
	12/16/2009	COM5	0.740	0.737	0.013	
	12/16/2009	ORCH4	2.098	2.099	0.011	
	2/16/2010	RANG1	0.921	0.914	0.033	
	2/18/2010	SEPT6	1.528	1.526	0.008	
Ammonia-N	4/8/2009	FOR10	0.040	0.039	0.003	0.011
	4/28/2009	CROP4	0.268	0.243	0.052	
	4/28/2009	ORCH1	0.134	0.129	0.010	
	5/5/2009	CROP6	0.095	0.095	0.002	
	5/5/2009	RANG1	0.129	0.123	0.012	
	5/7/2009	SEPT1	0.333	0.331	0.052	
	5/7/2009	SEWR1	0.165	0.166	0.025	
	6/4/2009	COM5	0.048	0.049	0.004	
	6/4/2009	SEWR2	0.114	0.116	0.011	
	7/1/2009	FOR12	0.102	0.101	0.002	
	12/16/2009	COM5	0.076	0.080	0.016	
	12/16/2009	ORCH4	0.096	0.101	0.025	
	2/16/2010	RANG1	0.034	0.033	0.001	
	2/18/2010	SEPT6	0.061	0.062	0.011	

Constituent	Sample Date	Site_ID	Triplicate Median (mg/L)	Triplicate Mean (mg/L)	90% Confidence Level (mg/L)	Median Confidence Level (mg/L)
Nitrate + Nitrite-N	4/8/2009	FOR10	0.049	0.047	0.008	0.011
	4/28/2009	CROP4	0.540	0.536	0.013	
	4/28/2009	ORCH1	0.807	0.807	0.001	
	5/5/2009	CROP6	1.080	1.095	0.033	
	5/5/2009	RANG1	0.420	0.421	0.005	
	5/7/2009	SEPT1	0.481	0.478	0.035	
	5/7/2009	SEWR1	0.399	0.399	0.002	
	6/4/2009	COM5	0.670	0.672	0.016	
	6/4/2009	SEWR2	1.380	1.375	0.014	
	7/1/2009	FOR12	0.065	0.066	0.003	
	12/16/2009	COM5	0.431	0.434	0.016	
	12/16/2009	ORCH4	1.550	1.548	0.035	
	2/16/2010	RANG1	0.714	0.715	0.011	
	2/18/2010	SEPT6	0.829	0.831	0.006	
Total Phosphorus	4/8/2009	FOR10	0.035	0.039	0.007	0.004
	4/28/2009	CROP4	0.855	0.625	0.440	
	4/28/2009	ORCH1	0.154	0.154	0.004	
	5/5/2009	CROP6	0.277	0.274	0.008	
	5/5/2009	RANG1	0.173	0.167	0.013	
	5/7/2009	SEPT1	0.904	0.774	0.273	
	5/7/2009	SEWR1	0.269	0.269	0.004	
	6/4/2009	COM5	0.088	0.113	0.049	
	6/4/2009	SEWR2	0.202	0.523	0.615	
	7/1/2009	FOR12	0.034	0.032	0.004	
	12/16/2009	COM5	0.127	0.128	0.002	
	12/16/2009	ORCH4	0.338	0.338	0.004	
	2/16/2010	RANG1	0.141	0.141	0.000	
	2/18/2010	SEPT6	0.277	0.276	0.002	
Dissolved Phosphorus	4/8/2009	FOR10	0.036	0.036	0.000	0.006

Constituent	Sample Date	Site_ID	Triplicate Median (mg/L)	Triplicate Mean (mg/L)	90% Confidence Level (mg/L)	Median Confidence Level (mg/L)
	4/28/2009	CROP4	0.638	0.642	0.009	
	4/28/2009	ORCH1	0.117	0.117	0.001	
	5/5/2009	CROP6	0.250	0.252	0.006	
	5/5/2009	RANG1	0.160	0.157	0.006	
	5/7/2009	SEPT1	0.524	0.521	0.015	
	5/7/2009	SEWR1	0.221	0.222	0.004	
	6/4/2009	COM5	0.073	0.071	0.007	
	6/4/2009	SEWR2	0.143	0.141	0.005	
	7/1/2009	FOR12	0.019	0.019	0.001	
	12/16/2009	COM5	0.099	0.101	0.004	
	12/16/2009	ORCH4	0.213	0.213	0.004	
	2/16/2010	RANG1	0.098	0.096	0.008	
	2/18/2010	SEPT6	0.146	0.146	0.007	
Total Suspended Solids	4/8/2009	FOR10	0.000	2.095	3.951	2.275
	4/28/2009	CROP4	0.004	3.553	1.361	
	4/28/2009	ORCH1	0.006	6.233	2.145	
	5/5/2009	CROP6	0.007	7.197	1.367	
	5/5/2009	RANG1	0.017	16.753	0.066	
	5/7/2009	SEPT1	0.010	9.019	2.625	
	5/7/2009	SEWR1	0.000	1.409	2.656	
	6/4/2009	COM5	0.000	0.000	0.000	
	6/4/2009	SEWR2	0.002	2.261	2.474	
	7/1/2009	FOR12	0.002	2.100	0.097	
	12/16/2009	COM5	0.002	3.522	2.685	
	12/16/2009	ORCH4	0.026	25.386	4.970	
	2/16/2010	ORCH4	0.004	4.207	0.008	
	2/16/2010	RANG1	0.002	2.087	2.275	
	2/18/2010	SEPT6	0.009	9.596	3.229	
Total Organic Carbon	4/8/2009	FOR10	3.938	3.875	0.601	0.162
	4/28/2009	CROP4	12.280	13.111	4.718	

Constituent	Sample Date	Site_ID	Triplicate Median (mg/L)	Triplicate Mean (mg/L)	90% Confidence Level (mg/L)	Median Confidence Level (mg/L)
	4/28/2009	ORCH1	3.343	3.205	0.300	
	5/5/2009	CROP6	9.397	9.406	0.042	
	5/5/2009	RANG1	6.150	6.156	0.122	
	5/7/2009	SEPT1	19.800	19.753	0.098	
	5/7/2009	SEWR1	5.863	5.951	0.183	
	6/4/2009	COM5	0.346	0.395	0.165	
	6/4/2009	SEWR2	2.864	2.854	0.368	
	7/1/2009	FOR12	4.669	4.669	0.075	
	8/4/2009	FOR5	4.258	4.300	0.162	
	12/16/2009	COM5	5.064	5.223	0.411	
	12/16/2009	ORCH4	13.180	13.150	0.097	
	2/16/2010	RANG1	5.017	4.970	0.146	
	2/18/2010	SEPT6	12.470	12.477	0.033	

Appendix F. Constituent Concentrations collected in 2008

Sample Date	2009 Site ID	2008 Site ID	Total Phosphorus (mg/L)	Dissolved Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia-N (mg/L)	Nitrate+Nitrite-N (mg/L)
6/11/2008	CROP1	WAS1	0.460	0.430	0.070	0.100	0.070
6/11/2008	CROP2	GOS1	0.820	0.780	0.280	0.170	0.280
6/11/2008	CROP3	ABR1	0.300	0.300	0.290	0.160	0.290
6/11/2008	SEPT1	TUR1	0.240	0.100	0.040	0.520	0.040
6/11/2008	SEPT1	TUR1	0.160	0.170	0.470	0.080	0.470
6/18/2008	CROP1	WAS1	0.620	0.560	0.020	0.140	0.020
6/18/2008	CROP2	GOS1	0.990	0.920	0.230	0.130	0.230
6/18/2008	CROP3	ABR1	0.410	0.250	0.260	0.350	0.260
6/18/2008	SEPT1	TUR1	1.690	1.520	0.020	1.090	0.020
6/18/2008	SEPT1	TUR1	0.250	0.150	0.430	0.080	0.430
6/24/2008	CROP1	WAS1	0.410	0.380	0.070	0.160	0.070
6/24/2008	CROP2	GOS1	3.040	1.000	0.200	0.180	0.200
6/24/2008	CROP3	ABR1	0.400	0.320	0.170	0.110	0.170
6/24/2008	SEPT1	TUR1	1.870	1.650	0.020	0.190	0.020
6/24/2008	SEPT1	TUR1	0.160	0.130	0.230	0.100	0.230
9/11/2008	CROP2	GOS1	1.310	1.010	0.060	0.150	0.060
9/11/2008	SEPT1	TUR1	0.150	0.140	0.340	0.070	0.340
9/11/2008	SEWR2	DSEB	0.180	0.160	1.700	0.180	1.700
9/17/2008	CROP2	GOS1	0.770	0.800	0.060	0.150	0.060
9/17/2008	SEPT1	TUR1	0.120	0.140	0.420	0.080	0.420
9/17/2008	SEWR2	DSEB	0.440	0.460	1.900	0.240	1.900
9/29/2008	CROP2	GOS1	0.730	0.590	0.080	0.070	0.080
9/29/2008	SEPT1	TUR1	0.150	0.130	0.390	0.060	0.390
9/29/2008	SEWR2	DSEB	0.150	0.110	1.730	0.120	1.730

Appendix G1. Descriptive Statistics for All Samples

Constituent	Season	Sample Size	Median (mg/L)	Mean (mg/L)	Minimum (mg/L)	Maximum (mg/L)	CV (%)	Skewness
Total Phosphorus	All	278	0.241	0.527	0.025	18.000	248	9.7
	Dry	141	0.202	0.409	0.025	6.675	177	5.8
	Wet	137	0.295	0.649	0.029	18.000	263	8.3
Dissolved Phosphorus	All	278	0.144	0.295	0.005	6.750	175	8.0
	Dry	141	0.130	0.262	0.005	2.350	138	3.1
	Wet	137	0.171	0.329	0.020	6.750	194	8.0
Total Nitrogen	All	276	0.905	1.816	0.013	128.100	437	14.9
	Dry	140	0.722	1.100	0.020	25.300	200	9.7
	Wet	136	1.225	2.553	0.013	128.100	433	11.1
Ammonia-N	All	278	0.085	0.696	0.004	115.000	1022	15.3
	Dry	141	0.084	0.292	0.004	24.400	703	11.8
	Wet	137	0.093	1.111	0.025	115.000	892	11.3
Nitrate + Nitrite-N	All	278	0.525	0.752	0.005	6.965	104	3.0
	Dry	141	0.490	0.640	0.005	2.700	97	1.3
	Wet	137	0.627	0.868	0.032	6.965	105	3.3
Total Suspended Solids	All	253	15	58	8	1997	350	7.2
	Dry	116	15	24	8	685	265	9.6
	Wet	137	15	86	8	1997	308	5.5
Fine Suspended Solids	All	253	8	40	8	1862	443	8.1
	Dry	116	8	10	8	106	116	6.8
	Wet	137	8	65	8	1862	362	5.9
Coarse Suspended Solids	All	253	15	24	8	638	229	7.9
	Dry	116	15	22	8	638	273	10.1
	Wet	137	15	27	8	448	199	5.5
Total Organic Carbon	All	252	7	9	0	172	129	10.7
	Dry	116	5	7	0	31	72	1.9
	Wet	136	9	11	1	172	134	9.0

Appendix G2. Descriptive Statistics for Cropland and Pasture Land Use Samples

Constituent	Season	Sample Size	Median (mg/L)	Mean (mg/L)	Minimum (mg/L)	Maximum (mg/L)	CV (%)	Skewness
Total Phosphorus	All	46	0.589	1.301	0.085	18.000	218	5.0
	Dry	26	0.556	0.890	0.085	6.675	147	3.9
	Wet	20	0.604	1.836	0.146	18.000	220	3.8
Dissolved Phosphorus	All	46	0.407	0.699	0.060	6.750	148	4.8
	Dry	26	0.405	0.562	0.060	2.350	82	2.5
	Wet	20	0.407	0.876	0.107	6.750	170	3.6
Total Nitrogen	All	46	0.857	4.775	0.020	128.100	402	6.2
	Dry	26	0.403	1.417	0.020	25.300	345	5.1
	Wet	20	1.666	9.140	0.541	128.100	311	4.3
Ammonia-N	All	46	0.156	3.613	0.015	115.000	480	6.2
	Dry	26	0.151	1.081	0.015	24.400	440	5.1
	Wet	20	0.167	6.904	0.036	115.000	373	4.3
Nitrate + Nitrite-N	All	46	0.308	0.456	0.020	2.120	91	1.6
	Dry	26	0.220	0.296	0.020	0.912	85	0.9
	Wet	20	0.656	0.664	0.032	2.120	75	1.2
Total Suspended Solids	All	34	15	35	15	551	259	5.7
	Dry	14	15	17	15	42	42	3.7
	Wet	20	15	48	15	551	247	4.4
Fine Suspended Solids	All	34	8	15	8	103	121	4.0
	Dry	14	8	9	8	35	79	3.7
	Wet	20	8	18	8	103	119	3.4
Coarse Suspended Solids	All	34	15	28	15	448	265	5.8
	Dry	14	15	15	15	15	0	
	Wet	20	15	37	15	448	261	4.5
Total Organic Carbon	All	34	10	16	3	172	177	5.3
	Dry	14	7	9	3	31	81	2.3
	Wet	20	11	21	4	172	172	4.2

Appendix G3. Descriptive Statistics for Orchards, Groves, Vineyards and Horticultural Land Use Samples

Constituent	Season	Sample Size	Median (mg/L)	Mean (mg/L)	Minimum (mg/L)	Maximum (mg/L)	CV (%)	Skewness
Total Phosphorus	All	35	0.391	0.631	0.110	3.440	107	2.6
	Dry	15	0.352	0.742	0.135	3.440	125	2.1
	Wet	20	0.402	0.547	0.110	1.285	72	0.7
Dissolved Phosphorus	All	35	0.213	0.365	0.034	1.665	111	1.8
	Dry	15	0.122	0.398	0.034	1.665	138	1.6
	Wet	20	0.220	0.341	0.085	0.901	78	1.0
Total Nitrogen	All	35	0.955	1.371	0.496	7.826	94	4.0
	Dry	15	0.735	0.889	0.496	1.916	42	1.8
	Wet	20	1.227	1.732	0.587	7.826	92	3.2
Ammonia-N	All	35	0.108	0.168	0.025	0.768	101	2.2
	Dry	15	0.183	0.243	0.025	0.768	90	1.4
	Wet	20	0.096	0.111	0.035	0.343	78	1.8
Nitrate + Nitrite-N	All	35	0.517	0.838	0.023	6.965	140	4.4
	Dry	15	0.465	0.459	0.023	1.575	88	1.5
	Wet	20	0.708	1.122	0.249	6.965	131	3.6
Total Suspended Solids	All	35	17	38	15	259	136	3.2
	Dry	15	15	16	15	30	24	3.7
	Wet	20	25	55	15	259	118	2.3
Fine Suspended Solids	All	35	8	29	8	180	147	2.6
	Dry	15	8	8	8	8	0	
	Wet	20	24	45	8	180	114	1.8
Coarse Suspended Solids	All	35	15	17	15	79	63	5.7
	Dry	15	15	16	15	26	18	3.9
	Wet	20	15	18	15	79	78	4.5
Total Organic Carbon	All	35	9	10	3	36	62	2.1
	Dry	15	7	9	3	19	63	0.7
	Wet	20	9	11	5	36	61	2.7

Appendix G4. Descriptive Statistics for Sewered Residential Land Use Samples

Constituent	Season	Sample Size	Median (mg/L)	Mean (mg/L)	Minimum (mg/L)	Maximum (mg/L)	CV (%)	Skewness
Total Phosphorus	All	37	0.276	0.323	0.081	0.701	52	0.6
	Dry	19	0.231	0.297	0.081	0.659	55	0.9
	Wet	18	0.318	0.349	0.107	0.701	50	0.4
Dissolved Phosphorus	All	37	0.174	0.214	0.031	0.661	66	1.3
	Dry	19	0.155	0.168	0.031	0.460	63	1.7
	Wet	18	0.209	0.263	0.051	0.661	61	0.9
Total Nitrogen	All	37	1.433	1.504	0.305	5.973	67	2.5
	Dry	19	1.700	1.414	0.305	2.580	50	-0.2
	Wet	18	1.362	1.599	0.655	5.973	78	2.7
Ammonia-N	All	37	0.068	0.089	0.011	0.240	66	0.9
	Dry	19	0.068	0.087	0.011	0.240	76	0.9
	Wet	18	0.066	0.091	0.034	0.216	57	1.1
Nitrate + Nitrite-N	All	37	1.020	1.167	0.005	5.180	82	2.0
	Dry	19	1.380	1.211	0.005	2.290	59	-0.4
	Wet	18	0.930	1.121	0.058	5.180	106	2.6
Total Suspended Solids	All	34	8	21	8	143	146	2.9
	Dry	16	8	18	8	143	193	3.9
	Wet	18	8	24	8	111	118	2.0
Fine Suspended Solids	All	34	8	13	8	54	99	2.5
	Dry	16	8	10	8	54	112	4.0
	Wet	18	8	15	8	51	90	2.0
Coarse Suspended Solids	All	34	8	14	8	100	152	3.8
	Dry	16	8	13	8	89	154	3.9
	Wet	18	8	14	8	100	155	4.0
Total Organic Carbon	All	34	6	7	2	14	49	0.6
	Dry	16	4	5	2	10	46	1.0
	Wet	18	9	9	4	14	35	0.2

Appendix G5. Descriptive Statistics for Septic System Residential Land Use Samples

Constituent	Season	Sample Size	Median (mg/L)	Mean (mg/L)	Minimum (mg/L)	Maximum (mg/L)	CV (%)	Skewness
Total Phosphorus	All	46	0.321	0.608	0.088	5.200	137	4.0
	Dry	27	0.240	0.382	0.088	1.870	115	2.7
	Wet	19	0.486	0.929	0.202	5.200	122	3.3
Dissolved Phosphorus	All	46	0.201	0.325	0.033	1.650	110	2.5
	Dry	27	0.145	0.272	0.033	1.650	143	3.1
	Wet	19	0.335	0.401	0.116	1.255	76	1.7
Total Nitrogen	All	46	1.518	1.619	0.020	3.777	62	0.1
	Dry	27	0.914	1.066	0.020	3.101	80	1.1
	Wet	19	2.252	2.406	1.428	3.777	24	0.5
Ammonia-N	All	46	0.100	0.188	0.028	1.090	108	2.7
	Dry	27	0.080	0.142	0.028	1.090	149	3.9
	Wet	19	0.244	0.253	0.062	0.807	71	1.7
Nitrate + Nitrite-N	All	46	0.910	0.998	0.020	3.255	74	0.9
	Dry	27	0.484	0.667	0.020	2.280	86	1.4
	Wet	19	1.240	1.469	0.481	3.255	48	0.9
Total Suspended Solids	All	37	17	114	8	1788	277	4.6
	Dry	18	15	19	15	45	41	2.4
	Wet	19	35	205	8	1788	209	3.2
Fine Suspended Solids	All	37	8	80	8	1535	341	4.8
	Dry	18	8	9	8	28	57	4.2
	Wet	19	17	147	8	1535	253	3.4
Coarse Suspended Solids	All	37	15	38	8	309	179	3.0
	Dry	18	15	16	15	36	31	4.1
	Wet	19	8	58	8	309	156	1.9
Total Organic Carbon	All	37	13	14	5	28	40	0.6
	Dry	18	11	11	5	21	35	0.8
	Wet	19	17	17	8	28	31	0.1

Appendix G6. Descriptive Statistics for Commercial and Services Land Use Samples

Constituent	Season	Sample Size	Median (mg/L)	Mean (mg/L)	Minimum (mg/L)	Maximum (mg/L)	CV (%)	Skewness
Total Phosphorus	All	36	0.117	0.176	0.062	0.670	79	2.0
	Dry	18	0.103	0.165	0.062	0.670	89	2.7
	Wet	18	0.124	0.187	0.068	0.530	70	1.4
Dissolved Phosphorus	All	36	0.088	0.109	0.035	0.473	78	3.0
	Dry	18	0.074	0.116	0.035	0.473	96	2.5
	Wet	18	0.091	0.102	0.051	0.271	47	2.9
Total Nitrogen	All	36	0.857	1.134	0.242	4.511	82	2.0
	Dry	18	0.729	1.223	0.242	4.511	95	1.7
	Wet	18	0.872	1.044	0.278	2.687	61	2.0
Ammonia-N	All	36	0.052	0.092	0.004	1.035	184	5.3
	Dry	18	0.031	0.100	0.004	1.035	237	4.0
	Wet	18	0.071	0.083	0.031	0.159	53	0.4
Nitrate + Nitrite-N	All	36	0.657	0.820	0.040	2.605	79	1.4
	Dry	18	0.657	0.840	0.045	2.605	84	1.1
	Wet	18	0.652	0.801	0.040	2.370	76	1.9
Total Suspended Solids	All	36	15	25	15	106	89	2.7
	Dry	18	15	23	15	106	95	3.5
	Wet	18	15	26	15	93	86	2.1
Fine Suspended Solids	All	36	8	13	8	106	137	4.5
	Dry	18	8	13	8	106	179	4.2
	Wet	18	8	13	8	46	83	2.1
Coarse Suspended Solids	All	36	15	18	15	53	49	3.1
	Dry	18	15	17	15	38	34	3.1
	Wet	18	15	19	15	53	59	2.7
Total Organic Carbon	All	36	4	4	0	15	63	1.9
	Dry	18	4	5	0	15	80	1.6
	Wet	18	4	4	1	7	34	0.0

Appendix G7. Descriptive Statistics for Range Land Use Samples

Constituent	Season	Sample Size	Median (mg/L)	Mean (mg/L)	Minimum (mg/L)	Maximum (mg/L)	CV (%)	Skewness
Total Phosphorus	All	35	0.173	0.431	0.076	4.500	179	4.6
	Dry	17	0.106	0.181	0.079	0.388	70	0.9
	Wet	18	0.339	0.668	0.076	4.500	154	3.4
Dissolved Phosphorus	All	35	0.113	0.202	0.067	0.673	75	1.3
	Dry	17	0.092	0.156	0.067	0.342	70	1.0
	Wet	18	0.192	0.246	0.074	0.673	71	1.1
Total Nitrogen	All	33	0.966	1.253	0.269	3.197	63	0.9
	Dry	16	0.925	1.083	0.353	2.433	63	1.0
	Wet	17	1.211	1.413	0.269	3.197	62	0.7
Ammonia-N	All	35	0.063	0.087	0.004	0.534	122	3.0
	Dry	17	0.029	0.043	0.004	0.117	82	1.1
	Wet	18	0.080	0.129	0.027	0.534	103	2.2
Nitrate + Nitrite-N	All	35	0.610	0.804	0.065	2.755	85	1.4
	Dry	17	0.659	0.793	0.168	2.700	85	1.6
	Wet	18	0.591	0.815	0.065	2.755	87	1.4
Total Suspended Solids	All	35	15	159	15	1997	256	3.5
	Dry	17	15	61	15	685	268	4.0
	Wet	18	34	252	15	1997	213	2.6
Fine Suspended Solids	All	35	8	123	8	1862	300	3.9
	Dry	17	8	11	8	47	93	3.6
	Wet	18	29	230	8	1862	217	2.6
Coarse Suspended Solids	All	35	15	43	15	638	252	5.3
	Dry	17	15	58	15	638	263	4.0
	Wet	18	15	29	15	135	118	2.5
Total Organic Carbon	All	33	7	7	3	19	48	1.4
	Dry	16	4	5	3	8	31	0.6
	Wet	17	10	9	4	19	40	1.1

Appendix G8. Descriptive Statistics for Forested Land Use Samples

Constituent	Season	Sample Size	Median (mg/L)	Mean (mg/L)	Minimum (mg/L)	Maximum (mg/L)	CV (%)	Skewness
Total Phosphorus	All	43	0.065	0.076	0.025	0.303	71	2.5
	Dry	19	0.060	0.072	0.025	0.207	69	1.7
	Wet	24	0.068	0.078	0.029	0.303	73	3.0
Dissolved Phosphorus	All	43	0.054	0.075	0.005	0.845	169	5.5
	Dry	19	0.050	0.057	0.005	0.146	75	1.0
	Wet	24	0.054	0.090	0.020	0.845	185	4.4
Total Nitrogen	All	43	0.315	0.494	0.013	1.712	82	1.2
	Dry	19	0.255	0.463	0.166	1.712	99	2.0
	Wet	24	0.560	0.519	0.013	1.251	71	0.3
Ammonia-N	All	43	0.076	0.071	0.004	0.214	59	1.1
	Dry	19	0.084	0.071	0.004	0.116	47	-1.3
	Wet	24	0.051	0.071	0.025	0.214	68	1.7
Nitrate + Nitrite-N	All	43	0.100	0.281	0.005	1.460	119	2.0
	Dry	19	0.071	0.318	0.005	1.460	143	```
	Wet	24	0.213	0.252	0.048	0.698	82	0.8
Total Suspended Solids	All	42	15	16	15	43	28	5.9
	Dry	18	15	15	15	15	0	0.0
	Wet	24	15	17	15	43	35	4.4
Fine Suspended Solids	All	42	8	9	8	37	58	4.4
	Dry	18	8	8	8	8	0	0.0
	Wet	24	8	10	8	37	67	3.2
Coarse Suspended Solids	All	42	15	15	15	15	0	0.0
	Dry	18	15	15	15	15	0	0.0
	Wet	24	15	15	15	15	0	0.0
Total Organic Carbon	All	43	5	6	1	14	57	1.1
	Dry	19	3	4	1	11	62	1.7
	Wet	24	6	7	4	14	44	1.1

Appendix G9. Descriptive Statistics for Cropland and Pasture Land Use Samples without data from the outlier sampling location CROP2

Constituent	Season	Sample Size	Median (mg/L)	Mean (mg/L)	Minimum (mg/L)	Maximum (mg/L)	CV (%)	Skewness
Total Phosphorus	All	35	0.477	0.680	6.425	0.085	152	5.3
	Dry	19	0.410	0.463	0.855	0.085	48	0.3
	Wet	16	0.526	0.938	6.425	0.146	160	3.7
Dissolved Phosphorus	All	35	0.326	0.392	1.050	0.060	59	1.2
	Dry	19	0.321	0.377	0.926	0.060	56	1.0
	Wet	16	0.347	0.409	1.050	0.107	63	1.4
Total Nitrogen	All	35	0.860	1.092	4.227	0.020	87	2.0
	Dry	19	0.599	0.560	1.076	0.020	63	-0.1
	Wet	16	1.551	1.724	4.227	0.541	61	1.8
Ammonia-N	All	35	0.140	0.182	0.778	0.015	89	2.6
	Dry	19	0.152	0.150	0.350	0.015	50	1.0
	Wet	16	0.121	0.221	0.778	0.036	101	1.8
Nitrate + Nitrite-N	All	35	0.488	0.517	2.120	0.020	85	1.5
	Dry	19	0.260	0.330	0.912	0.020	82	0.7
	Wet	16	0.743	0.739	2.120	0.032	68	1.2
Total Suspended Solids	All	29	15	19	54	15	46	2.9
	Dry	13	15	15	18	15	5	3.6
	Wet	16	15	22	54	15	50	2.0
Fine Suspended Solids	All	29	7.5	11	32	8	67	1.9
	Dry	13	7.5	8	8	8	0	
	Wet	16	7.5	14	32	8	66	1.0
Coarse Suspended Solids	All	29	15	15	24	15	11	5.4
	Dry	13	15	15	15	15	0	
	Wet	16	15	16	24	15	14	4.0
Total Organic Carbon	All	29	9	10	21	3	49	0.7
	Dry	13	7	7	17	3	54	1.2
	Wet	16	11	12	21	4	39	0.6

Appendix G10. Descriptive Statistics for Orchards, Groves, Vineyards and Horticultural Land Use Samples without data from the outlier sampling location ORCH2

Constituent	Season	Sample Size	Median (mg/L)	Mean (mg/L)	Minimum (mg/L)	Maximum (mg/L)	CV (%)	Skewness
Total Phosphorus	All	26	0.271	0.386	0.110	1.880	95	3.0
	Dry	11	0.252	0.406	0.135	1.880	123	3.1
	Wet	15	0.291	0.371	0.110	0.894	67	1.2
Dissolved Phosphorus	All	26	0.126	0.167	0.034	0.522	68	1.7
	Dry	11	0.110	0.108	0.034	0.243	50	1.3
	Wet	15	0.213	0.210	0.085	0.522	60	1.3
Total Nitrogen	All	26	0.830	1.198	0.496	7.826	117	4.6
	Dry	11	0.705	0.731	0.496	1.077	23	1.1
	Wet	15	0.955	1.540	0.587	7.826	116	3.5
Ammonia-N	All	26	0.097	0.134	0.025	0.768	114	3.2
	Dry	11	0.141	0.216	0.025	0.768	97	2.1
	Wet	15	0.056	0.075	0.035	0.144	46	0.7
Nitrate + Nitrite-N	All	26	0.444	0.763	0.023	6.965	172	4.6
	Dry	11	0.371	0.386	0.023	0.816	73	0.2
	Wet	15	0.517	1.039	0.249	6.965	161	3.6
Total Suspended Solids	All	26	16	34	15	259	158	3.6
	Dry	11	15	15	15	17	4	3.1
	Wet	15	20	48	15	259	143	2.7
Fine Suspended Solids	All	26	8	25	8	180	167	3.2
	Dry	11	8	8	8	8	0	
	Wet	15	19	37	8	180	138	2.3
Coarse Suspended Solids	All	26	15	17	15	79	71	5.1
	Dry	11	15	15	15	15	0	
	Wet	15	15	19	15	79	85	3.9
Total Organic Carbon	All	26	8	9	3	36	70	2.6
	Dry	11	5	7	3	19	71	1.3
	Wet	15	10	11	5	36	67	3.1

Appendix G11. Descriptive Statistics for Range Land Use Samples without data from the outlier sampling location RANG2

Constituent	Season	Sample Size	Median (mg/L)	Mean (mg/L)	Minimum (mg/L)	Maximum (mg/L)	CV (%)	Skewness
Total Phosphorus	All	24	0.116	0.231	0.076	1.395	140	3.1
	Dry	12	0.094	0.103	0.079	0.176	28	1.9
	Wet	12	0.173	0.359	0.076	1.395	119	2.0
Dissolved Phosphorus	All	24	0.093	0.115	0.067	0.285	50	1.9
	Dry	12	0.083	0.088	0.067	0.136	20	1.9
	Wet	12	0.110	0.143	0.074	0.285	49	1.0
Total Nitrogen	All	22	0.756	0.878	0.269	3.197	71	2.7
	Dry	11	0.693	0.682	0.353	0.966	36	-0.1
	Wet	11	0.819	1.074	0.269	3.197	76	2.0
Ammonia-N	All	24	0.057	0.072	0.004	0.376	104	3.0
	Dry	12	0.030	0.048	0.004	0.117	87	0.8
	Wet	12	0.074	0.096	0.027	0.376	97	2.8
Nitrate + Nitrite-N	All	24	0.493	0.530	0.065	2.755	99	3.4
	Dry	12	0.495	0.441	0.168	0.714	52	-0.1
	Wet	12	0.458	0.620	0.065	2.755	115	2.8
Total Suspended Solids	All	24	15	132	15	1106	226	2.6
	Dry	12	15	80	15	685	242	3.3
	Wet	12	16	185	15	1106	205	2.1
Fine Suspended Solids	All	24	8	89	8	1012	288	3.3
	Dry	12	8	12	8	47	98	3.0
	Wet	12	8	165	8	1012	212	2.1
Coarse Suspended Solids	All	24	15	50	15	638	254	4.6
	Dry	12	15	75	15	638	238	3.3
	Wet	12	15	25	15	94	99	2.4
Total Organic Carbon	All	22	5	6	3	10	40	1.0
	Dry	11	4	4	3	5	15	-0.9
	Wet	11	7	7	4	10	31	0.0

Appendix H. Sites with significant difference ($\alpha = 0.05$) from the remaining set of data collected for the same land use category and weather period.

Site ID	Period	Constituent	Probability
COM3	Dry	Total Nitrogen	0.023
COM4		Total Suspended Solids	0.022
		Nitrate+Nitrite-N	0.039
COM10	Wet	Total Organic Carbon	0.044
CROP2	Dry	Dissolved Phosphorus	0.008
		Total Phosphorus	0.010
		Total Suspended Solids	0.031
	Wet	Ammonia-N	0.016
		Dissolved Phosphorus	0.030
		Total Nitrogen	0.036
		Total Phosphorus	0.044
CROP3	Dry	Dissolved Phosphorus	0.016
	Wet	Ammonia-N	0.040
CROP4	Dry	Total Nitrogen	0.038
CROP6	Wet	Dissolved Phosphorus	0.044
FOR1	Wet	Total Suspended Solids	0.039
FOR4	Wet	Dissolved Phosphorus	0.033
ORCH1	Dry	Total Organic Carbon	0.045
	Wet	Total Nitrogen	0.019
		Nitrate+Nitrite-N	0.027
ORCH2	Dry	Dissolved Phosphorus	0.028
	Wet	Dissolved Phosphorus	0.013
		Total Phosphorus	0.019
		Ammonia-N	0.023
		Total Nitrogen	0.045
RANG2	Dry	Dissolved Phosphorus	0.019
		Nitrate+Nitrite-N	0.019
		Total Phosphorus	0.019
		Total Nitrogen	0.023
		Total Organic Carbon	0.023
	Wet	Dissolved Phosphorus	0.016
		Total Organic Carbon	0.042
RANG3	Dry	Nitrate+Nitrite-N	0.025
		Total Organic Carbon	0.043
	Wet	Dissolved Phosphorus	0.040
SEPT1	Dry	Total Nitrogen	0.028
SEPT2	Dry	Dissolved Phosphorus	0.036
SEPT8	Dry	Nitrate+Nitrite-N	0.031
		Total Nitrogen	0.048
SEWR9	Dry	Total Organic Carbon	0.049
	Wet	Dissolved Phosphorus	0.039