

Attachment M
Ventura Water Reclamation Facility
Projections of Winter Ammonia Concentrations in Receiving Water
(CA0056251, CI-1822)

Date	Station	Temp ¹	pH ²	Salinity	I	pKas	1-hour EPA Objective (expressed as total ammonia)
Feb-02	R1	16.7	7.9266667	10.3	0.2073983	9.2690582	9.756809713
Feb-02	R2	16.2	7.9333333	11.6	0.2338836	9.2721305	10.03729982
Feb-02	R3	13.2	8.0266667	18.4	0.3735711	9.2883343	10.50106268
Feb-02	R4	14.7	8.0333333	8.7	0.1748969	9.265288	8.806830116
Feb-02	L5	15.2	8.0166667	8.7	0.1748969	9.265288	8.816043043
Mar-02	R1	15.6	8.7175	11.4	0.2298044	9.2716573	1.916515139
Mar-02	R2	16.4	8.94	13.7	0.2768158	9.2771106	1.195165874
Mar-02	R3	16.7	8.8175	15.4	0.3117052	9.2811578	1.492148569
Mar-02	R4	17.9	8.925	15.6	0.3158178	9.2816349	1.132856893
Mar-02	L5	16.9	8.8425	11.2	0.2257268	9.2711843	1.377519996
Apr-02	R1	16.1	8.77	4.8	0.0961147	9.2561493	1.619783867
Apr-02	R2	16.3	8.802	8	0.1607107	9.2636424	1.524284109
Apr-02	R3	17.1	8.816	7.5	0.1505899	9.2624684	1.40770119
Apr-02	R4	17.3	8.79	4.9	0.098127	9.2563827	1.444606555
Apr-02	L5	18.9	8.802	8.2	0.1647618	9.2641124	1.297756899
Nov-02	R1	19.7	7.6733333	2.5	0.0499437	9.2507935	13.31511148
Nov-02	R2	19.8	7.7566667	6.9	0.1384586	9.2610612	11.20718277
Nov-02	R3	16.7	7.7633333	7.3	0.1465445	9.2619992	13.88150254
Nov-02	R4	17	7.81	5.7	0.1142401	9.2582519	12.11667803
Nov-02	L5	17.5	7.7866667	2.6	0.0519467	9.2510258	12.11413505
Dec-02	R1	17.4	7.864	8.3	0.166788	9.2643474	10.56266496
Dec-02	R2	16.7	8.036	14.5	0.2932193	9.2790134	7.808871607
Dec-02	R3	13.8	8.094	15.9	0.3219899	9.2823508	8.526377717
Dec-02	R4	14.5	8.036	10.8	0.2175767	9.2702389	8.981612139
Dec-02	L5	14.7	8.026	6.4	0.1283604	9.2598898	8.845118118
Jan-03	R1	18.6	7.85	4.6	0.0920914	9.2556826	9.794826025
Jan-03	R2						
Jan-03	R3	16.4	7.9175	16.1	0.3261067	9.2828284	10.50057054
Jan-03	R4	17.1	7.8625	9.6	0.1931659	9.2674072	10.90795923
Jan-03	L5	17	7.95	4.9	0.098127	9.2563827	8.804992101
Feb-03	R1	18.2	7.8875	7.4	0.148567	9.2622338	9.406862163
Feb-03	R2	18	7.9025	20.5	0.417104	9.2933841	9.897571265
Feb-03	R3	15.9	7.9075	25.5	0.5215127	9.3054955	11.72339712
Feb-03	R4	16.4	7.9375	10.1	0.2033299	9.2685863	9.722112252
Feb-03	L5	17.1	8.0275	6.9	0.1384586	9.2610612	7.427823998
Mar-03	R1	18.5	7.67	5.2	0.1041664	9.2570833	14.86088676
Mar-03	R2	18.7	7.7375	16.2	0.3281657	9.2830672	13.33040968
Mar-03	R3	17	7.7675	17.4	0.352907	9.2859372	14.20106455
Mar-03	R4	17.2	7.785	7.9	0.1586857	9.2634075	12.78250125
Mar-03	L5	17.4	7.815	7.5	0.1505899	9.2624684	11.74649723
Apr-03	R1	18.4	7.9	2.7	0.0539501	9.2512582	8.795420473
Apr-03	R2	18.2	7.93	10.3	0.2073983	9.2690582	8.683387771
Apr-03	R3	16	7.965	11.4	0.2298044	9.2716573	9.47480556
Apr-03	R4	16.5	7.93	3.4	0.0679852	9.2528863	9.475416786
Apr-03	L5	16.9	7.9825	3.6	0.0719988	9.2533519	8.190761789
Nov-03	R1	13.8	7.8233333	2.2	0.0439372	9.2500967	14.59265497

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Nov-03	R2	13.7	7.9266667	8.7	0.1748969	9.265288	12.04278643
Nov-03	R3	13.9	7.9133333	12.8	0.2583938	9.2749737	12.50120193
Nov-03	R4	15	8.0866667	11.2	0.2257268	9.2711843	7.749534624
Nov-03	L5	12.6	8.1633333	6.9	0.1384586	9.2610612	7.594886121
Dec-03	R1	13.1	8.6075	5	0.1001398	9.2566162	2.757510533
Dec-03	R2	11.8	8.5	7.5	0.1505899	9.2624684	3.84418777
Dec-03	R3	11.6	8.5575	5.4	0.1081947	9.2575506	3.40777038
Dec-03	R4	11.4	8.645	5.2	0.1041664	9.2570833	2.86463191
Dec-03	L5	12.1	8.6975	5.4	0.1081947	9.2575506	2.448705645
Jan-04	R1	12.6	8.2575	2.5	0.0499437	9.2507935	6.021348939
Jan-04	R2						
Jan-04	R3	12.6	8.065	9.6	0.1931659	9.2674072	9.601465871
Jan-04	R4	11.7	8.175	6.7	0.1344181	9.2605925	7.889216214
Jan-04	L5	11.9	8.28	3	0.0599627	9.2519557	6.03927044
Feb-04	R1	12.9	7.6375	1.4	0.0279375	9.2482408	23.69050569
Feb-04	R2	11.4	7.8475	2.5	0.0499437	9.2507935	16.50478948
Feb-04	R3	11.7	7.83	2.2	0.0439372	9.2500967	16.77234878
Feb-04	R4	11.9	7.885	1.9	0.0379343	9.2494004	14.56616058
Feb-04	L5	13.6	7.645	1	0.0199473	9.2473139	22.06907688
Mar-04	R1	16.5	7.705	1	0.0199473	9.2473139	15.55139148
Mar-04	R2	16.9	7.7475	2.2	0.0439372	9.2500967	13.80162347
Mar-04	R3	16.1	7.8975	6.2	0.124324	9.2594216	10.65092088
Mar-04	R4	15.8	7.8375	3.9	0.0780223	9.2540506	12.31476008
Mar-04	L5	16.7	7.81	1.3	0.0259394	9.248009	12.10238293
Apr-04	R1	19.5	9.3266667	0.6	0.0119636	9.2463878	0.525024246
Apr-04	R2	19.7	8.5525	1.3	0.0259394	9.248009	1.949827546
Apr-04	R3	18.5	8.4575	2.4	0.0479412	9.2505612	2.583495713
Apr-04	R4	18.7	8.61	1.3	0.0259394	9.248009	1.853418374
Apr-04	L5	19.9	9.0075	0.9	0.0179508	9.2470823	0.824997539
Nov-04	R1	14.6	9.265	4.8	0.0961147	9.2561493	0.72914604
Nov-04	R2	14.8	8.906	2.3	0.045939	9.2503289	1.335323437
Nov-04	R3	14.3	8.63	3.7	0.0740062	9.2535847	2.409532178
Nov-04	R4	15.5	8.292	2	0.0399349	9.2496324	4.52769389
Nov-04	L5	15.5	8.768	3.6	0.0719988	9.2533519	1.680610183
Dec-04	R1	16	9.063	4.9	0.098127	9.2563827	0.944457438
Dec-04	R2	17.6	8.510	4.5	0.0900803	9.2554493	2.485724289
Dec-04	R3	12.2	8.440	8.6	0.172869	9.2650528	4.281314487
Dec-04	R4	13.1	8.523	3.5	0.0699918	9.253119	3.278650191
Dec-04	L5	13.5	8.338	3.3	0.0659789	9.2526536	4.75420635
Jan-05	R1	14.8	7.693	0.9	0.0179508	9.2470823	18.08673477
Jan-05	R2	11.2	8.035	4.1	0.08204	9.2545166	11.050791
Jan-05	R3	11.6	8.095	6.2	0.124324	9.2594216	9.481756052
Jan-05	R4	14.9	7.855	1.8	0.0359342	9.2491684	12.50480455
Jan-05	L5	11.6	8.040	0.7	0.0139589	9.2466192	10.425506
Feb-05	R1	11.4	8.070	0.5	0.0099687	9.2461564	9.877910607
Feb-05	R2	11.6	8.073	4.7	0.0941029	9.2559159	9.895236662

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Feb-05	R3	12.5	7.945	7.2	0.1445224	9.2617646	12.51490921
Feb-05	R4	16	7.818	1.5	0.0299361	9.2484726	12.53773048
Feb-05	L5	11.6	7.988	0.3	0.00598	9.2456937	11.71071453
Mar-05	R1	15	7.73	0.8	0.0159547	9.2468507	16.38962927
Mar-05	R2	13.7	7.936	1.2	0.0239416	9.2477772	11.33491509
Mar-05	R3	14.2	8.082	2.2	0.0439372	9.2500967	7.915757702
Mar-05	R4	14.6	7.956	1.2	0.0239416	9.2477772	10.14673826
Mar-05	L5	13.6	8.272	0.4	0.0079741	9.245925	5.37090087
Apr-05	R1	15.5	7.9	1.4	0.0279375	9.2482408	10.79000002
Apr-05	R2	12.7	8.0633333	8.1	0.162736	9.2638774	9.492024302
Apr-05	R3	14.3	8.23	8.9	0.1789538	9.2657586	5.855623581
Apr-05	R4	13.9	8.3366667	2.9	0.0579581	9.2517231	4.620297094
Apr-05	L5	15	8.18	3.1	0.0619677	9.2521883	6.036477069
P = 1 atm							
Maxi		19.9					23.69050569
Mini		11.2					0.525024246

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4-day EPA Objective (expressed as total ammonia)
1.465615193
1.507748899
1.577412848
1.322914395
1.324298311
0.28788854
0.179531355
0.224142489
0.170171636
0.206923605
0.243315173
0.228969716
0.21145726
0.217000985
0.194942024
2.000124042
1.68348239
2.085204244
1.82010185
1.819719857
1.586666411
1.173006465
1.280786352
1.349169205
1.328665812
1.471325798
1.577338922
1.638534648
1.322638298
1.413047964
1.486759632
1.761025318
1.460403128
1.115767553
2.232322045
2.002422055
2.133207122
1.920118213
1.764495293
1.3212005
1.304371554
1.423254054
1.423345869
1.230371942
2.192029716

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4-day EPA Objective (expressed as total ammonia)
1.809002253
1.877862951
1.164093184
1.140862722
0.41421832
0.577453099
0.511896838
0.430309514
0.36783132
0.904494476
1.442280281
1.185075397
0.907186547
3.558659654
2.479260223
2.519451533
2.188049873
3.315097385
2.33604593
2.073205242
1.599923737
1.849856664
1.817954517
0.078866303
0.29289255
0.388078755
0.278410485
0.123926669
0.109528375
0.200585066
0.361946894
0.680125692
0.252452173
0.141871289
0.373392061
0.64311591
0.492501102
0.714151168
2.71689149
1.659990064
1.424298119
1.878404118
1.566063133
1.483806314
1.486408941

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4-day EPA Objective (expressed as total ammonia)
1.879921985
1.883350072
1.759120208
2.461961479
1.702669649
1.189062316
1.52418815
0.806787684
1.620815453
1.42584056
0.879600109
0.694036044
0.906766942
3.558659654
0.078866303