

Table 46. Dissolved Oxygen (DO) (mg/L) Breakdown by Station for BAC DWS4

River Miles	BAC	DO Difference	Summation of DO gains or losses in all CE between stations						DO Loss Breakdown in %			
			Reaeration*	Algae	SOD	BOD	Nitrification	Total	Algae	SOD	BOD	Nitrification
			Predicted	Gain	Gain/Loss	Loss	Loss	Loss	Loss			
27.6 - 25.0	BAC01-BAC03	-1.5	5.9	-0.3	-5.7	-0.3	-1.0	-7.3	0.05	81.5	4.0	14.5
25.0 - 23.8	BAC03-BAC04	-0.7	11.6	-0.1	-2.7	-2.1	-7.3	-12.3	0.01	22.3	17.4	60.4
23.8 - 22.4	BAC04-BAC06	0.2	19.3	-0.1	-3.4	-3.0	-12.6	-19.1	0.01	17.7	16.0	66.2
22.4 - 21.0	BAC06-BAC07	-1.4	22.1	-0.2	-3.0	-3.9	-16.3	-23.4	0.01	13.0	16.9	70.1
21.0 - 19.4	BAC07-BAC10	3.3	15.7	-0.1	-1.8	-2.1	-8.4	-12.4	0.01	15.0	16.7	68.3
19.4 - 18.2	BAC10-BAC12	0.2	8.4	-0.2	-1.6	-1.3	-5.2	-8.3	0.02	19.3	16.3	64.4
18.2 - 17.4	BAC12-BAC13	0.2	3.7	-0.2	-0.9	-0.7	-1.7	-3.5	0.05	28.4	20.5	51.1
17.4 - 15.4	BAC13-BAC14	-0.3	7.7	-0.6	-3.4	-1.2	-2.7	-7.9	0.07	46.7	16.8	36.5
15.4 - 13.8	BAC14-BAC15	-0.2	7.9	-0.5	-4.2	-0.9	-2.5	-8.2	0.06	54.9	12.4	32.7
13.8 - 13.0	BAC15-BAC16	-0.7	5.2	0.0	-3.9	-0.5	-1.6	-5.9	0.00	65.7	7.6	26.7
13.0 - 10.0	BAC16-BAC17	0.2	30.7	4.0	-26.4	-1.7	-6.8	-34.9	0.00	75.6	4.8	19.6
10.0 - 8.4	BAC17-BAC19	0.7	9.7	1.0	-8.7	-0.3	-1.0	-10.0	0.00	87.3	2.9	9.8
8.4 - 6.0	BAC19-BAC21	0.0	9.3	1.1	-9.5	-0.2	-0.7	-10.4	0.00	91.6	2.0	6.4
6.0 - 1.6	BAC21-BAC22	0.3	13.9	2.9	-15.5	-0.3	-0.7	-16.4	0.00	94.0	1.5	4.4
1.6 - 0.8	BAC22-BAC24	0.1	2.0	1.3	-3.1	0.0	-0.1	-3.3	0.00	95.4	1.2	3.4

CE = Computational Elements; * This column only includes the stream reaeration. The reaeration from dams is already incorporated in the predicted values; The source of oxygen associated with reaeration is subject to change since the model did not allow macrophytes to be simulated.
Below BAC16 Algae Productivity becomes a source of DO.