

## WACCAMAW RIVER BASIN

02110755 AIW AT BRIARCLIFFE ACRES AT NORTH MYRTLE BEACH, SC

LOCATION.--Lat 33°47'54'', long 78°45'12'', Horry County, Hydrologic Unit 03040207, on right bank of Atlantic Intracoastal Waterway, at Briarcliffe Marina, 12.3 mi upstream from the junction of Little River Inlet and at AIW mile 354.1.

PERIOD OF RECORD.--Water years 1984 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1983 to current year.

pH: April 1986 to September 1989 (discontinued).

WATER TEMPERATURE: April 1986 to September 1989 (discontinued).

DISSOLVED OXYGEN: September 1986 to September 1989 (discontinued).

INSTRUMENTATION.--Water-quality multiprobe and data collection platform.

REMARKS.--Specific conductance records rated good except for Jan. 15 to Apr. 14, which are fair.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 39,200 microsiemens, Sep. 22, 1989; minimum, 50 microsiemens, Sep. 15, 1996.

pH: Maximum 9.2 units, Aug. 13, 1987; minimum, 5.3 units, Sep. 26, 1986.

WATER TEMPERATURE: Maximum, 33.5°C, Jul. 31, 1988; minimum, 2.0°C, Jan. 16, 1988.

DISSOLVED OXYGEN: Maximum, 11.4 mg/L, Jan. 19, 1988; minimum, 2.2 mg/L, Sep. 30, 1989.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 5,980 microsiemens, Oct. 8; minimum, 74 microsiemens, Apr. 22.

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

| DAY   | MAX  | MIN | MEAN | OCTOBER |     |      | NOVEMBER |     |      | DECEMBER |     |      | JANUARY |     |      |
|-------|------|-----|------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
|       |      |     |      | MAX     | MIN | MEAN | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX     | MIN | MEAN |
| 1     | 220  | 180 | 203  | 200     | 150 | 172  | 150      | 110 | 127  | 170      | 130 | 144  |         |     |      |
| 2     | 220  | 180 | 198  | 190     | 150 | 168  | 150      | 120 | 131  | 150      | 130 | 140  |         |     |      |
| 3     | 270  | 180 | 205  | 350     | 150 | 242  | 150      | 120 | 137  | 170      | 130 | 145  |         |     |      |
| 4     | 720  | 180 | 283  | 390     | 230 | 341  | 300      | 130 | 164  | 160      | 130 | 141  |         |     |      |
| 5     | 1110 | 190 | 397  | 540     | 150 | 320  | 220      | 130 | 159  | 150      | 130 | 138  |         |     |      |
| 6     | 2670 | 210 | 806  | 240     | 140 | 175  | 180      | 130 | 148  | 220      | 120 | 146  |         |     |      |
| 7     | 5620 | 230 | 1570 | 310     | 140 | 183  | 170      | 130 | 145  | 270      | 130 | 157  |         |     |      |
| 8     | 5980 | 250 | 1670 | 290     | 150 | 187  | 160      | 130 | 143  | 260      | 130 | 166  |         |     |      |
| 9     | 5900 | 270 | 1710 | 180     | 150 | 166  | 170      | 130 | 143  | 210      | 140 | 157  |         |     |      |
| 10    | 2930 | 250 | 1020 | 180     | 150 | 162  | 270      | 130 | 149  | 230      | 130 | 155  |         |     |      |
| 11    | 1510 | 240 | 648  | 170     | 140 | 154  | 160      | 130 | 141  | 240      | 130 | 153  |         |     |      |
| 12    | 250  | 190 | 226  | 170     | 140 | 151  | 170      | 130 | 143  | 240      | 130 | 146  |         |     |      |
| 13    | 230  | 180 | 206  | 220     | 140 | 168  | 190      | 130 | 146  | 240      | 130 | 156  |         |     |      |
| 14    | 230  | 180 | 201  | 190     | 150 | 162  | 170      | 140 | 148  | 280      | 130 | 157  |         |     |      |
| 15    | 240  | 180 | 207  | 170     | 150 | 160  | 180      | 130 | 145  | 280      | 130 | 165  |         |     |      |
| 16    | 220  | 170 | 189  | 190     | 140 | 153  | 170      | 130 | 142  | 251      | 141 | 161  |         |     |      |
| 17    | 170  | 130 | 152  | 240     | 130 | 175  | 150      | 130 | 138  | 178      | 145 | 157  |         |     |      |
| 18    | 140  | 120 | 129  | 270     | 130 | 209  | 150      | 130 | 136  | 185      | 146 | 163  |         |     |      |
| 19    | 160  | 130 | 137  | 180     | 130 | 149  | 140      | 130 | 135  | 178      | 147 | 160  |         |     |      |
| 20    | 180  | 130 | 150  | 160     | 130 | 142  | 160      | 130 | 137  | 215      | 148 | 168  |         |     |      |
| 21    | 200  | 130 | 158  | 160     | 120 | 138  | 180      | 130 | 140  | 219      | 152 | 174  |         |     |      |
| 22    | 160  | 120 | 140  | 150     | 120 | 131  | 160      | 130 | 140  | 276      | 159 | 194  |         |     |      |
| 23    | 150  | 120 | 135  | 160     | 120 | 134  | 190      | 120 | 140  | 195      | 160 | 178  |         |     |      |
| 24    | 150  | 130 | 139  | 150     | 120 | 132  | 280      | 120 | 161  | 254      | 156 | 178  |         |     |      |
| 25    | 150  | 130 | 142  | 150     | 120 | 130  | 160      | 130 | 137  | 234      | 158 | 179  |         |     |      |
| 26    | 160  | 130 | 142  | 150     | 120 | 127  | 160      | 120 | 134  | 232      | 161 | 182  |         |     |      |
| 27    | 160  | 130 | 144  | 150     | 120 | 127  | 160      | 120 | 135  | 237      | 161 | 179  |         |     |      |
| 28    | 160  | 130 | 146  | 140     | 120 | 125  | 160      | 130 | 143  | 261      | 162 | 190  |         |     |      |
| 29    | 190  | 140 | 156  | 140     | 120 | 126  | 180      | 130 | 136  | 213      | 161 | 182  |         |     |      |
| 30    | 170  | 140 | 156  | 140     | 110 | 125  | 150      | 130 | 136  | 209      | 161 | 184  |         |     |      |
| 31    | 210  | 140 | 167  | ---     | --- | ---  | 160      | 130 | 141  | 236      | 164 | 189  |         |     |      |
| MONTH | 5980 | 120 | 385  | 540     | 110 | 168  | 300      | 110 | 142  | 280      | 120 | 164  |         |     |      |

02110755 AIW AT BRIARCLIFFE ACRES AT NORTH MYRTLE BEACH, SC--Continued

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

| DAY   | MAX      | MIN | MEAN | MAX   | MIN | MEAN | MAX   | MIN | MEAN | MAX | MIN | MEAN |
|-------|----------|-----|------|-------|-----|------|-------|-----|------|-----|-----|------|
|       | FEBRUARY |     |      | MARCH |     |      | APRIL |     |      | MAY |     |      |
| 1     | 243      | 165 | 189  | 153   | 137 | 143  | 141   | 78  | 87   | 126 | 80  | 94   |
| 2     | 241      | 166 | 197  | 183   | 135 | 147  | 120   | 78  | 86   | 219 | 82  | 106  |
| 3     | 214      | 168 | 188  | 182   | 136 | 147  | 124   | 78  | 85   | 138 | 84  | 98   |
| 4     | 214      | 165 | 181  | 147   | 131 | 139  | 121   | 77  | 85   | 269 | 87  | 116  |
| 5     | 213      | 164 | 180  | 161   | 124 | 138  | 123   | 79  | 87   | 145 | 87  | 102  |
| 6     | 248      | 168 | 183  | 145   | 123 | 132  | 97    | 80  | 85   | 172 | 91  | 113  |
| 7     | 209      | 167 | 182  | 174   | 125 | 137  | 347   | 80  | 118  | 205 | 91  | 121  |
| 8     | 216      | 168 | 182  | 163   | 124 | 138  | 128   | 94  | 100  | 166 | 94  | 117  |
| 9     | 211      | 173 | 185  | 157   | 124 | 133  | 260   | 91  | 125  | 162 | 94  | 111  |
| 10    | 254      | 176 | 192  | 174   | 118 | 126  | 181   | 89  | 104  | 272 | 95  | 183  |
| 11    | 211      | 174 | 186  | 171   | 118 | 129  | 174   | 86  | 99   | 306 | 99  | 177  |
| 12    | 203      | 167 | 179  | 140   | 117 | 125  | 175   | 82  | 96   | 164 | 98  | 112  |
| 13    | 294      | 166 | 183  | 139   | 116 | 122  | 126   | 82  | 95   | 164 | 99  | 119  |
| 14    | 310      | 162 | 205  | 142   | 115 | 119  | 126   | 81  | 94   | 175 | 102 | 121  |
| 15    | 303      | 161 | 195  | 171   | 113 | 121  | 123   | 83  | 96   | 181 | 100 | 117  |
| 16    | 268      | 161 | 184  | 150   | 119 | 129  | 117   | 82  | 92   | 158 | 100 | 117  |
| 17    | 261      | 158 | 185  | 130   | 100 | 112  | 117   | 79  | 92   | 129 | 101 | 112  |
| 18    | 243      | 157 | 178  | 178   | 104 | 121  | 114   | 75  | 87   | 160 | 104 | 116  |
| 19    | 297      | 157 | 188  | 133   | 107 | 113  | 100   | 76  | 82   | 123 | 98  | 111  |
| 20    | 183      | 153 | 166  | 179   | 105 | 126  | 97    | 75  | 80   | 137 | 96  | 110  |
| 21    | 172      | 149 | 161  | 129   | 102 | 116  | 89    | 75  | 79   | 185 | 97  | 110  |
| 22    | 185      | 142 | 159  | 112   | 95  | 102  | 82    | 74  | 78   | 152 | 97  | 108  |
| 23    | 176      | 139 | 151  | 114   | 97  | 103  | 87    | 76  | 79   | 194 | 97  | 123  |
| 24    | 161      | 139 | 148  | 167   | 97  | 109  | 91    | 76  | 79   | 149 | 109 | 124  |
| 25    | 153      | 136 | 143  | 130   | 94  | 102  | 136   | 75  | 87   | 154 | 114 | 129  |
| 26    | 153      | 135 | 142  | 171   | 90  | 106  | 141   | 79  | 87   | 181 | 110 | 128  |
| 27    | 148      | 133 | 140  | 141   | 89  | 97   | 96    | 78  | 82   | 182 | 109 | 125  |
| 28    | 162      | 131 | 140  | 117   | 84  | 92   | 164   | 79  | 91   | 162 | 107 | 123  |
| 29    | ---      | --- | ---  | 249   | 85  | 98   | 103   | 81  | 87   | 132 | 107 | 118  |
| 30    | ---      | --- | ---  | 118   | 81  | 87   | 103   | 82  | 86   | 165 | 109 | 119  |
| 31    | ---      | --- | ---  | 113   | 79  | 84   | ---   | --- | ---  | 193 | 112 | 134  |
| MONTH | 310      | 131 | 175  | 249   | 79  | 119  | 347   | 74  | 90   | 306 | 80  | 120  |

| DAY   | MAX  | MIN | MEAN | MAX  | MIN | MEAN | MAX    | MIN | MEAN | MAX       | MIN | MEAN |
|-------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
|       | JUNE |     |      | JULY |     |      | AUGUST |     |      | SEPTEMBER |     |      |
| 1     | 177  | 108 | 135  | 207  | 87  | 109  | 190    | 92  | 114  | 115       | 89  | 100  |
| 2     | 148  | 110 | 121  | 182  | 92  | 110  | 150    | 96  | 115  | 108       | 90  | 100  |
| 3     | 157  | 104 | 117  | 200  | 93  | 108  | 152    | 92  | 114  | 115       | 91  | 100  |
| 4     | 167  | 98  | 121  | 157  | 95  | 108  | 160    | 92  | 116  | 134       | 94  | 106  |
| 5     | 159  | 101 | 116  | 162  | 94  | 109  | 141    | 95  | 112  | 120       | 97  | 108  |
| 6     | 154  | 98  | 114  | 148  | 95  | 107  | 215    | 88  | 117  | 127       | 103 | 114  |
| 7     | 175  | 97  | 115  | 267  | 95  | 124  | 237    | 92  | 120  | 131       | 106 | 119  |
| 8     | 199  | 96  | 117  | 195  | 101 | 119  | 135    | 91  | 108  | 129       | 106 | 119  |
| 9     | 155  | 101 | 114  | 151  | 105 | 118  | 166    | 92  | 112  | 142       | 105 | 121  |
| 10    | 142  | 100 | 111  | 148  | 102 | 116  | 170    | 91  | 114  | 130       | 102 | 117  |
| 11    | 135  | 97  | 111  | 142  | 98  | 112  | 321    | 93  | 141  | 143       | 106 | 121  |
| 12    | 143  | 97  | 110  | 265  | 101 | 141  | 177    | 92  | 117  | 157       | 105 | 121  |
| 13    | 163  | 99  | 113  | 204  | 126 | 149  | 179    | 90  | 115  | 123       | 100 | 111  |
| 14    | 151  | 102 | 113  | 183  | 108 | 139  | 186    | 90  | 107  | ---       | --- | ---  |
| 15    | 135  | 99  | 113  | 172  | 102 | 130  | 134    | 88  | 103  | 123       | 104 | 113  |
| 16    | 184  | 100 | 119  | 160  | 102 | 124  | 122    | 86  | 100  | 131       | 100 | 113  |
| 17    | 132  | 101 | 114  | 154  | 99  | 118  | 138    | 85  | 99   | 126       | 104 | 113  |
| 18    | 144  | 95  | 115  | 184  | 102 | 122  | 185    | 88  | 104  | 128       | 102 | 109  |
| 19    | 149  | 94  | 111  | 254  | 103 | 151  | 114    | 87  | 99   | 127       | 100 | 113  |
| 20    | 137  | 101 | 111  | 195  | 111 | 140  | 106    | 84  | 94   | 150       | 109 | 125  |
| 21    | 128  | 90  | 102  | 237  | 110 | 133  | 102    | 84  | 94   | 148       | 117 | 133  |
| 22    | 186  | 87  | 103  | 224  | 105 | 133  | 190    | 84  | 105  | 148       | 118 | 135  |
| 23    | 109  | 88  | 98   | 273  | 106 | 148  | 135    | 85  | 99   | 148       | 116 | 134  |
| 24    | 131  | 88  | 97   | 245  | 107 | 146  | 109    | 85  | 96   | 192       | 116 | 142  |
| 25    | 147  | 89  | 99   | 257  | 98  | 153  | 175    | 88  | 108  | 187       | 124 | 144  |
| 26    | 133  | 91  | 103  | 229  | 94  | 136  | 125    | 87  | 97   | 190       | 126 | 147  |
| 27    | 157  | 88  | 102  | 225  | 94  | 127  | 152    | 88  | 103  | 173       | 123 | 146  |
| 28    | 132  | 88  | 101  | 190  | 91  | 128  | 131    | 88  | 102  | 169       | 123 | 142  |
| 29    | 149  | 90  | 101  | 184  | 91  | 122  | 113    | 88  | 97   | 161       | 115 | 133  |
| 30    | 220  | 87  | 110  | 178  | 90  | 118  | 133    | 88  | 98   | 134       | 111 | 125  |
| 31    | ---  | --- | ---  | 160  | 91  | 116  | 107    | 88  | 97   | ---       | --- | ---  |
| MONTH | 220  | 87  | 111  | 273  | 87  | 126  | 321    | 84  | 107  | ---       | --- | ---  |