

SCECAP 2005-2006

Water, sediment, and biological cut points

(New thresholds that have been applied to all previous years)

Parameter	Criteria	Percent of Tidal Creek Habitat				Percent of Open Water Habitat			
		Lower CL	Percent	Upper CL	Lower CL	Percent	Upper CL		
<b>WATER QUALITY</b>									
Salinity -- ppt (25 Hr mean - bottom)	≤ 5	0	5	11	0	3	7		
	≤ 18	4	14	24	0	5	11		
	≤ 30	31	45	59	37	51	65		
	> 30	--	55	--	--	49	--		
Dissolved Oxygen -- mg/l (25 Hr mean - bottom)	< 3	0	6	12	0	2	6		
	< 4	13	25	38	6	7	14		
	< 5	85	92	100	24	38	52		
	≥ 5	--	8	--	--	62	--		
Dissolved Oxygen -- mg/l (Instantaneous Bottom)	< 3	18	32	45	2	10	19		
	< 4	66	78	90	19	32	45		
	< 5	93	97	100	54	67	80		
	≥ 5	--	3	--	--	33	--		
Dissolved Oxygen -- mg/l (Instantaneous - surface)	< 3	13	25	37	2	11	19		
	< 4	54	67	81	14	26	38		
	< 5	90	96	100	47	61	75		
	≥ 5	--	4	--	--	39	--		
pH (salinity corrected)	≤ 7.22	3	11	20	--	0	--		
	> 7.22 & < 7.35	11	23	34	--	0	--		
	≥ 7.35	--	77	--	--	100	--		
Total Kjeldahl Nitrogen (2005 only) mg/l	≤ 0.68	39	59	78	67	83	99		
	≤ 0.87	71	85	99	--	100	--		
	> 0.87	--	15	--	--	0	--		
Nitrate / Nitrite mg/l	≤ 0.14	--	100	--	93	97	100		
	≤ 0.23	--	0	--	--	3	--		
	> 0.23	--	0	--	--	0	--		
Total Nitrogen (2005 only) (TKN + NOx - mg/l)	≤ 0.81	58	75	92	91	96	100		
	≤ 1.05	90	97	100	--	4	--		
	> 1.05	--	3	--	--	0	--		
Total Dissolved Nitrogen mg/l	< 0.1	--	0	--	--	100	--		
	< 1.0	93	97	100	--	0	--		
	≥ 1.0	--	3	--	--	0	--		
Dissolved Inorganic Nitrogen mg/l	< 0.1	67	80	92	38	54	69		
	≤ 0.5	--	100	--	--	100	--		
	> 0.5	--	0	--	--	0	--		

Parameter	Criteria	Percent of Tidal Creek Habitat			Percent of Open Water Habitat		
Ammonia Nitrogen mg/l	≤ 0.28	--	<b>100</b>	--	89	<b>95</b>	100
	≤ 0.48	--	<b>0</b>	--	--	<b>5</b>	--
	≤ 0.60	--	<b>0</b>	--	--	<b>0</b>	--
	> 0.60	--	<b>0</b>	--	--	<b>0</b>	--
Total Phosphorus mg/l	≤ 0.10	72	<b>83</b>	93	75	<b>85</b>	96
	≤ 0.12	81	<b>90</b>	98	83	<b>91</b>	99
	> 0.12	--	<b>10</b>	--	--	<b>0</b>	--
Total Dissolved Phosphorus mg/l	<0.01	0	<b>0</b>	10	0	<b>0</b>	7
	< 0.10	74	<b>84</b>	94	77	<b>86</b>	96
	≥0.10	--	<b>16</b>	--	--	<b>14</b>	--
Dissolved Inorganic Phosphorus mg/l	< 0.01	10	<b>9</b>	17	0	<b>8</b>	16
	≤ 0.05	62	<b>74</b>	86	64	<b>76</b>	88
	≥0.05	--	<b>26</b>	--	--	<b>24</b>	--
BOD <sub>5</sub> mg/l	≤ 1.8	78	<b>88</b>	97	93	<b>97</b>	100
	≤ 2.6	87	<b>98</b>	100	--	<b>3</b>	--
	> 2.6	--	<b>2</b>	--	--	<b>0</b>	--
Total Organic Carbon mg/l	≤ 11	71	<b>82</b>	93	91	<b>96</b>	100
	≤ 16	95	<b>95</b>	100	--	<b>4</b>	--
	> 16	--	<b>5</b>	--	--	<b>0</b>	--
Fecal Coliform colonies / 100ml	≤ 43	68	<b>79</b>	91	81	<b>90</b>	98
	≤ 400	64	<b>99</b>	100	--	<b>100</b>	--
	> 400	--	<b>1</b>	--	--	<b>0</b>	--
Alkalinity mg/l	≤ 98	16	<b>29</b>	42	18	<b>31</b>	44
	≤ 110	39	<b>54</b>	67	69	<b>80</b>	91
	≤ 114	55	<b>67</b>	79	81	<b>88</b>	95
	≤ 125	86	<b>93</b>	99	--	<b>12</b>	--
	> 125	--	<b>7</b>	--	--	<b>0</b>	--
Turbidity NTU	≤ 15	36	<b>51</b>	65	64	<b>76</b>	88
	≤ 25	73	<b>83</b>	94	77	<b>87</b>	96
	> 25	--	<b>17</b>	--	--	<b>13</b>	--
Eutrophication Score (2005 only) *small sample size (n<30)	< 3	0	<b>12</b>	25	0	<b>12</b>	25
	< 4	0	<b>24</b>	25	0	<b>12</b>	25
	> 4	59	<b>76</b>	93	75	<b>88</b>	100
WQ Score (with nutr)	<3	0	<b>0</b>	0	0	<b>2</b>	6
	≥ 3	3	<b>12</b>	21	0	<b>8</b>	16
	≥ 4	79	<b>88</b>	97	82	<b>90</b>	98

Parameter	Criteria	Percent of Tidal Creek Habitat			Percent of Open Water Habitat		
<b>SEDIMENT QUALITY</b>							
Sediment Composition Percent Silt Clay	<20	42	<b>56</b>	70	65	<b>77</b>	89
	≤ 80	86	<b>93</b>	100	89	<b>95</b>	100
	> 80	--	<b>7</b>	--	--	<b>5</b>	--
TOC	< 3	77	<b>87</b>	96	86	<b>93</b>	100
	≤ 5	92	<b>97</b>	100	93	<b>97</b>	100
	> 5	--	<b>3</b>	--	--	<b>3</b>	--
Porewater Ammonia mg/l	≤ 14	--	<b>100</b>	--	--	<b>100</b>	--
	≤ 30	--	<b>0</b>	--	--	<b>0</b>	--
	> 30	--	<b>0</b>	--	--	<b>0</b>	--
Contaminants ERMQ	≤ 0.020	66	<b>78</b>	89	74	<b>84</b>	94
	≤ 0.058	99	<b>100</b>	100	94	<b>98</b>	100
	> 0.058	--	<b>0</b>	--	--	<b>2</b>	--
Toxicity	< 2	3	<b>12</b>	21	0	<b>4</b>	9
	< 3	21	<b>46</b>	47	19	<b>36</b>	45
	≥ 3	40	<b>54</b>	68	51	<b>64</b>	77
Integrated Sediment Score	< 3	3	<b>12</b>	21	0	<b>6</b>	13
	≥ 3	2	<b>22</b>	18	2	<b>16</b>	18
	> 4	66	<b>78</b>	90	74	<b>84</b>	94
<b>BIOLOGY</b>							
Chlorophyll A µg/l	≤ 11.5	67	<b>78</b>	90	80	<b>89</b>	97
	≤ 16.4	89	<b>95</b>	100	91	<b>96</b>	100
	> 16.4	--	<b>5</b>	--	--	<b>4</b>	--
Benthic IBI	< 2	0	<b>2</b>	6	0	<b>6</b>	13
	< 3	13	<b>27</b>	37	2	<b>16</b>	18
	≥ 3	60	<b>73</b>	86	74	<b>84</b>	94
Overall Integrated Measure Habitat Quality Score	< 3	0	<b>0</b>	0	0	<b>0</b>	0
	≥ 3	3	<b>12</b>	21	0	<b>6</b>	13
	> 4	79	<b>88</b>	97	87	<b>94</b>	100