



**Table 4-2 Concentrations of Dissolved Copper, Silver and TSS in Samples Collected during Disposal Monitoring Event #4 - 06 June 2003**

Laboratory Sample ID	Sample Location ID	Position in Water Column	Analytical Results		
			Dissolved Ag ( $\mu\text{g/L}$ )	Dissolved Cu ( $\mu\text{g/L}$ )	TSS (mg/L)
0306048-04	PRO4 DRG1-T	Surface	<0.5 <sup>a</sup>	1.6	21
0306048-05	PRO4 DRG1-M	Mid-depth	<0.5 <sup>a</sup>	0.53	30
0306048-06	PRO4 DRG1-B	Bottom	<0.5 <sup>a</sup>	0.48	36
0306048-07	PRO4 CM1-T	Surface	<0.5 <sup>a</sup>	2.1	12
0306048-08	PRO4 CM1-M	Mid-depth	<0.5 <sup>a</sup>	0.67	9.5
0306048-09	PRO4 CM1-B	Bottom	<0.5 <sup>a</sup>	0.73	10
0306048-01	PRO4 UCR1-T	Surface	<0.5 <sup>a</sup>	2.2	14
0306048-02	PRO4 UCR1-M	Mid-depth	<0.5 <sup>a</sup>	0.58	6.8
0306048-03	PRO4 UCR1-B	Bottom	<0.5 <sup>a</sup>	0.68	17

<sup>a</sup> Measured concentrations were less than the reporting limit for Dissolved Ag of 0.5  $\mu\text{g/L}$ .

\*Water Quality Standards for the State of Rhode Island for protecting marine organisms from acute toxicity are as follows:

Ag - 1.9  $\mu\text{g/L}$ ; Cu - 4.8  $\mu\text{g/L}$



**Table 4-3 Results of the of Sea Urchin (*Arbacia punctulata*) Fertilization Test with Samples Collected during Disposal Monitoring Event #4 - 06 June2003**

Sample Location Description	Mean % Fertilization
PRO4 DRG-1	99.6
PRO4 CM- 1	99.4
PRO4 195	99.8
PRO4 UCR-1	99.8
Artificial Seawater Control <sup>a</sup>	99.8
Natural Seawater Control <sup>b</sup>	99.8

<sup>a</sup>Artificial seawater control was required since samples were fortified with artificial sea salts to achieve the required salinity of  $30 \pm 2$  ppt.

<sup>b</sup>Natural seawater control is the standard laboratory control.

**Table 4-4 Results of the of Sea Urchin (*Arbacia punctulata*) Embryo Survival and Development Test with Samples Collected during Disposal Monitoring Event #4 - 06 June 2003**

Sample Location ID	Mean % Normal Embryo Development	Mean % Embryo Survival
PRO4 DRG-1	96.8	96.2
PRO4 CM- 1	95.6	97.1
PRO4 195	96	98.4
PRO4 UCR-1	96.6	93.6
Artificial Seawater Control	94.8	98
Natural Seawater Control	96.4	96.2

<sup>a</sup>Artificial seawater control was required since samples were fortified with artificial sea salts to achieve the required salinity of  $30 \pm 2$  ppt.

<sup>b</sup>Natural seawater control is the standard laboratory control.