



Table 3-2 Concentrations of Dissolved Copper, Silver and TSS in Samples Collected During Disposal Monitoring Event #3 - 04 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)
0306032-07	PRO3 DRG1-T	Surface	<0.5	1.6	40
0306032-08	PRO3 DRG1-M	Mid-depth	<0.5	0.47	8.5
0306032-09	PRO3 DRG1-B	Bottom	<0.5	0.92	23
0306032-04	PRO3 CM1-T	Surface	<0.5	2.9	9.0
0306032-05	PRO3 CM1-M	Mid-depth	<0.5	0.98	14
0306032-06	PRO3 CM1-B	Bottom	<0.5	0.73	15
0306032-01	PRO3 UCR1-T	Surface	<0.5	2.9	4.2
0306032-02	PRO3 UCR1-M	Mid-depth	<0.5	0.94	19
0306032-03	PRO3 UCR1-B	Bottom	<0.5	1.2	20

^a 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 3-3 Results of the of Sea Urchin (*Arbacia punctulata*) Fertilization Test with Samples Collected During Disposal Monitoring Event #3 - 04 June 2003

Sample Location ID	Mean % Fertilization
PRO3 DRG-1	99.6
PRO3 CM- 1	100
PRO3 FP	99.8
PRO3 UCR-1	100
Artificial Seawater Control ^a	94.6
Natural Seawater Control ^b	99.4

^aArtificial seawater control was required since samples were fortified with artificial sea salts to achieve the required salinity of 30 ± 2 ppt.

^bNatural seawater control is the standard laboratory control.



Table 3-4 Results of the Sea Urchin (*Arbacia punctulata*) Embryo Survival and Development Test with Samples Collected During Disposal Monitoring Event #3 - 04 June 2003

Sample Location ID	Mean % Normal Embryo Development	Mean % Embryo Survival
PRO3 DRG-1	97.8	93.3
PRO3 CM- 1	94.6	92.6
PRO3 FP	98.0 ^a	89.8
PRO3 UCR-1	97.2	95.0
Artificial Seawater Control ^b	98.4	95.9
Natural Seawater Control ^c	98.4	93.7

^aOne replicate of PRO3-FP exhibited 10% normal development, while the remaining four replicate samples exhibited 97-99% normal development. This one replicate sample was believed to be an anomaly, and was not included in the mean % normal development.

^bArtificial seawater control was required since samples were fortified with artificial sea salts to achieve the required salinity of 30 ± 2 ppt.

^cNatural seawater control is the standard laboratory control.