

Nuclides Analysis Result of Radioactive Materials in the Seawater < Offshore of Miyagi prefecture 1/4 >

(Data summarized on November 26)

Place of Sampling (Place No.)	Offshore of Minamisanriku (T-MG0)						Ishinomaki Bay (T-MG1)						Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	2nd Sampling, September 2012 (Not sampled)		2nd Sampling, September 2012 (Not sampled)		2nd Sampling, September 2012 (Not sampled)		Sep 21, 2012 10:05 AM		Sep 21, 2012 10:07 AM		Sep 21, 2012 10:03 AM		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	-	-	-	-	-	-	0.0066	0.00	0.0073	0.00	0.0043	0.00	60
Cs-137 (Approx. 30 years)	-	-	-	-	-	-	0.013	0.00	0.012	0.00	0.0083	0.00	90

Place of Sampling (Place No.)	Offshore of Kinkasan East (T-MG2)						Offshore of Kinkasan South (T-MG3)						Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Sep 21, 2012 7:55 AM		Sep 21, 2012 8:05 AM		Sep 21, 2012 7:50 AM		2nd Sampling, September 2012 (Not sampled)		2nd Sampling, September 2012 (Not sampled)		2nd Sampling, September 2012 (Not sampled)		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	ND	-	0.0017	0.00	0.0026	0.00	-	-	-	-	-	-	60
Cs-137 (Approx. 30 years)	0.0029	0.00	0.0028	0.00	0.0061	0.00	-	-	-	-	-	-	90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* Analyzed by : Japan Chemical Analysis Center

* "ND" indicates that the measurement result is below the detection limit.

Cs-134: Approx.0.0016Bq/L

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

Nuclides Analysis Result of Radioactive Materials in the Seawater < Offshore of Miyagi prefecture 2/4 >

(Data summarized on November 26)

Place of Sampling (Place No.)	Offshore of Shichigahama (T-MG4)						Central Area of Sendai Bay (T-MG5)						Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	2nd Sampling, September 2012 (Not sampled)		2nd Sampling, September 2012 (Not sampled)		2nd Sampling, September 2012 (Not sampled)		2nd Sampling, September 2012 (Not sampled)		2nd Sampling, September 2012 (Not sampled)		2nd Sampling, September 2012 (Not sampled)		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	-	-	-	-	-	-	-	-	-	-	-	-	60
Cs-137 (Approx. 30 years)	-	-	-	-	-	-	-	-	-	-	-	-	90

Place of Sampling (Place No.)	Offshore of Abukuma River (T-MG6)						[Diagonal Line]						Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	2nd Sampling, September 2012 (Not sampled)		2nd Sampling, September 2012 (Not sampled)		2nd Sampling, September 2012 (Not sampled)		[Diagonal Line]		[Diagonal Line]		[Diagonal Line]		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	-	-	-	-	-	-	[Diagonal Line]	[Diagonal Line]	[Diagonal Line]	[Diagonal Line]	[Diagonal Line]	[Diagonal Line]	60
Cs-137 (Approx. 30 years)	-	-	-	-	-	-	[Diagonal Line]	[Diagonal Line]	[Diagonal Line]	[Diagonal Line]	[Diagonal Line]	[Diagonal Line]	90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

Nuclides Analysis Result of Radioactive Materials in the Seawater < Offshore of Miyagi prefecture 3/4 >

(Data summarized on November 26)

Place of Sampling (Place No.)	Offshore of Minamisanriku (T-MG0)						Ishinomaki Bay (T-MG1)						Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Oct 15, 2012 9:16 AM		Oct 15, 2012 10:02 AM		Oct 15, 2012 9:40 AM		Oct 16, 2012 10:46 AM		Oct 16, 2012 10:41 AM		Oct 16, 2012 10:36 AM		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	ND	-	ND	-	ND	-	0.010	0.00	0.0090	0.00	0.0070	0.00	60
Cs-137 (Approx. 30 years)	0.0020	0.00	0.0018	0.00	0.0018	0.00	0.016	0.00	0.015	0.00	0.014	0.00	90

Place of Sampling (Place No.)	Offshore of Kinkasan East (T-MG2)						Offshore of Kinkasan South (T-MG3)						Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Oct 16, 2012 8:05 AM		Oct 16, 2012 8:25 AM		Oct 16, 2012 7:59 AM		Oct 16, 2012 9:10 AM		Oct 16, 2012 9:21 AM		Oct 16, 2012 9:07 AM		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	60
Cs-137 (Approx. 30 years)	0.0028	0.00	0.0021	0.00	0.0030	0.00	0.0016	0.00	0.0013	0.00	0.0027	0.00	90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* Analyzed by: THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD.

* "ND" indicates that the measurement result is below the detection limit.

Cs-134: Approx.0.0018Bq/L*

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

* In our previous information announced on November 26, 2012, we announced "Approx. 0.018Bq/L." We corrected it as "Approx. 0.0018Bq/L."

Please accept our apologies for this mistake. (As of November 27, 2012)

Nuclides Analysis Result of Radioactive Materials in the Seawater < Offshore of Miyagi prefecture 4/4 >

(Data summarized on November 26)

Place of Sampling (Place No.)	Offshore of Shichigahama (T-MG4)						Central Area of Sendai Bay (T-MG5)						Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Oct 15, 2012 10:03 AM		Oct 15, 2012 10:12 AM		Oct 15, 2012 10:05 AM		Oct 15, 2012 9:12 AM		Oct 15, 2012 9:25 AM		Oct 15, 2012 9:18 AM		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	0.0094	0.00	0.0088	0.00	0.0058	0.00	0.0046	0.00	0.0050	0.00	0.0044	0.00	60
Cs-137 (Approx. 30 years)	0.015	0.00	0.014	0.00	0.011	0.00	0.0099	0.00	0.010	0.00	0.0092	0.00	90

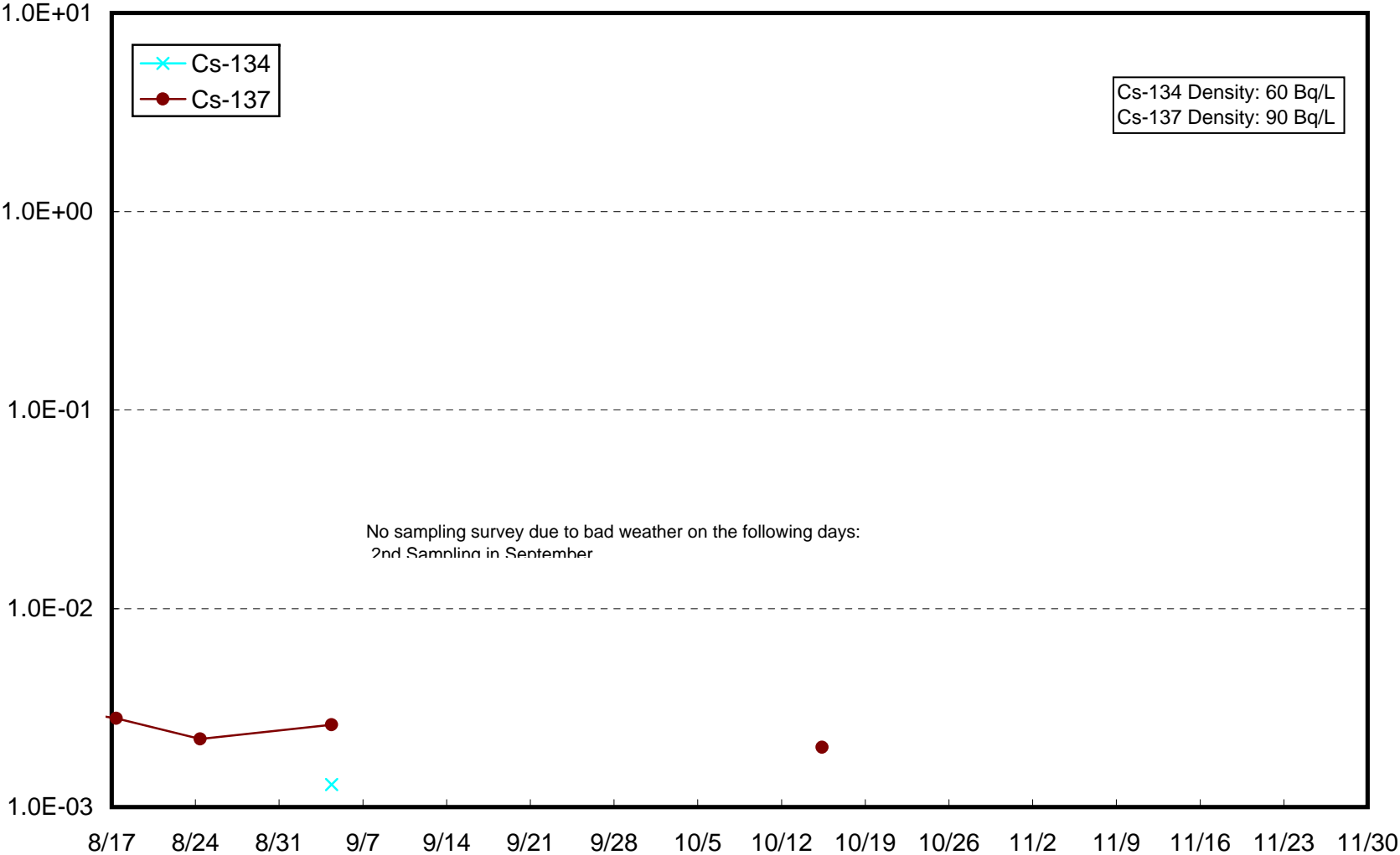
Place of Sampling (Place No.)	Offshore of Abukuma River (T-MG6)												Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Upper Layer		Middle Layer		Lower Layer								
Time of Sampling	Oct 15, 2012 11:00 AM		Oct 15, 2012 11:09 AM		Oct 15, 2012 11:02 AM								
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Cs-134 (Approx. 2 years)	0.0083	0.00	0.0089	0.00	0.011	0.00							60
Cs-137 (Approx. 30 years)	0.015	0.00	0.017	0.00	0.019	0.00							90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

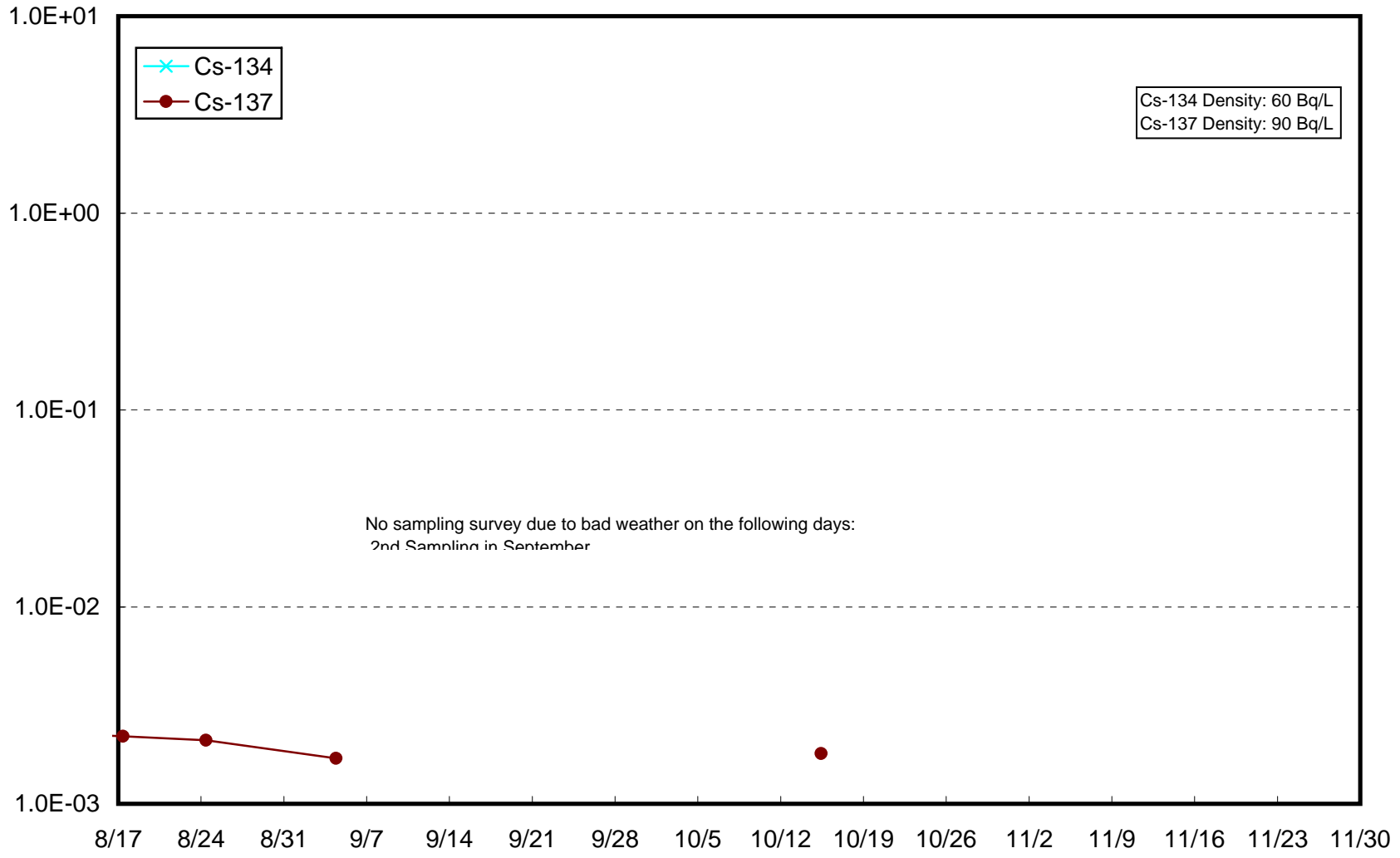
* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* Analyzed by : THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD.

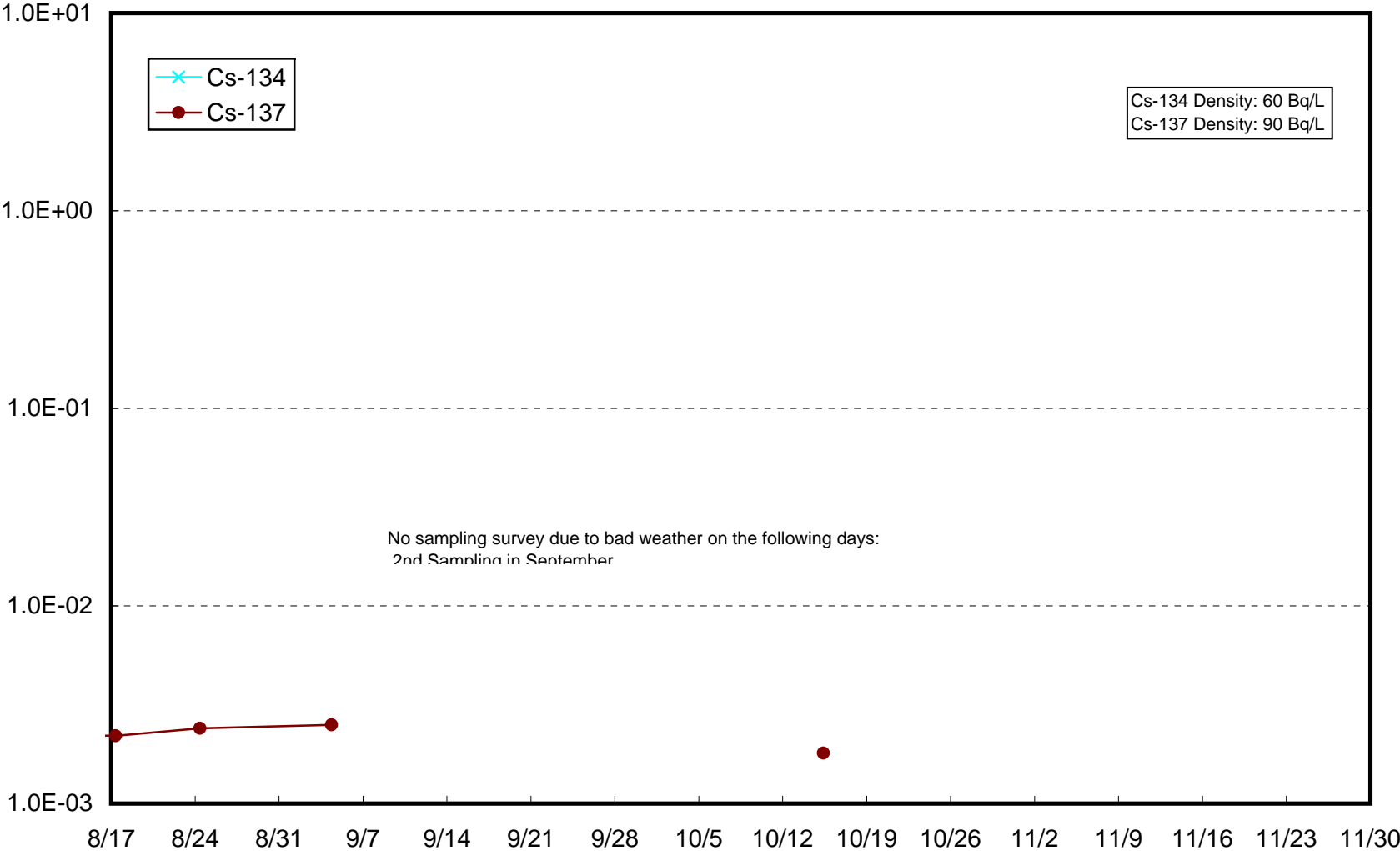
Radioactivity Density of the Seawater at Offshore of Minamisanriku (T-MG0) Upper Layer (Bq/L)



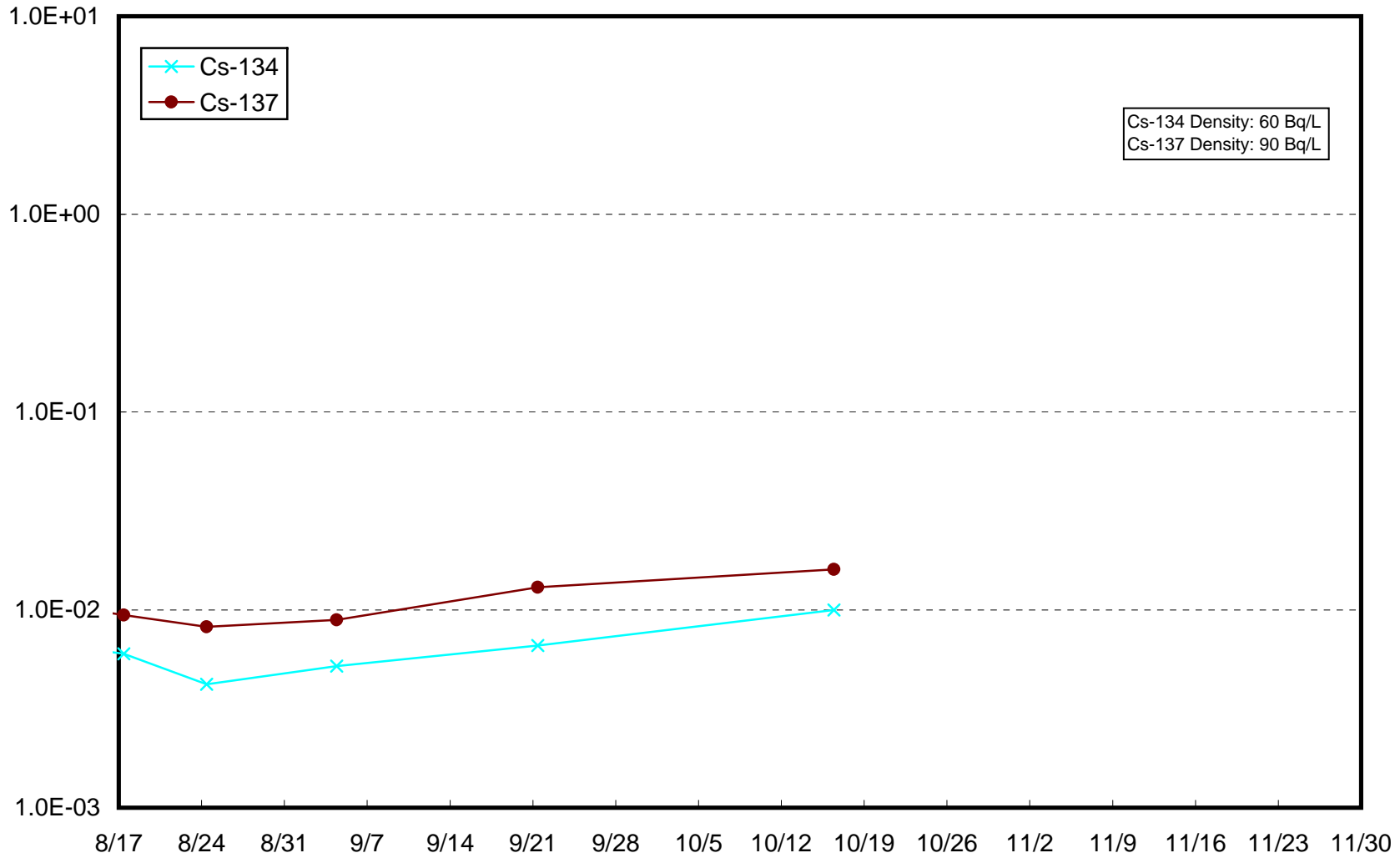
Radioactivity Density of the Seawater at Offshore of Minamisanriku (T-MG0) Middle Layer (Bq/L)



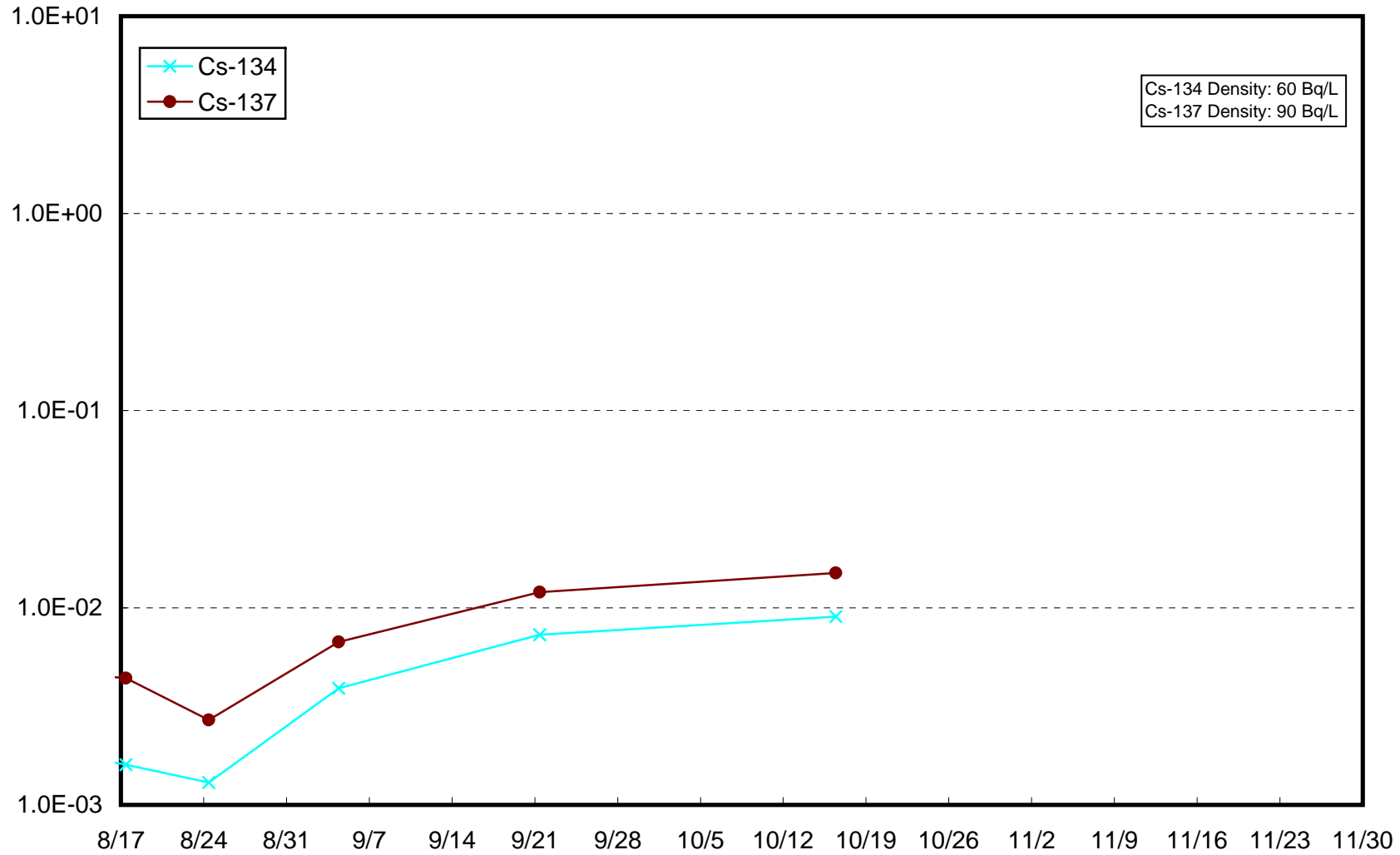
Radioactivity Density of the Seawater at Offshore of Minamisanriku (T-MG0) Lower Layer (Bq/L)



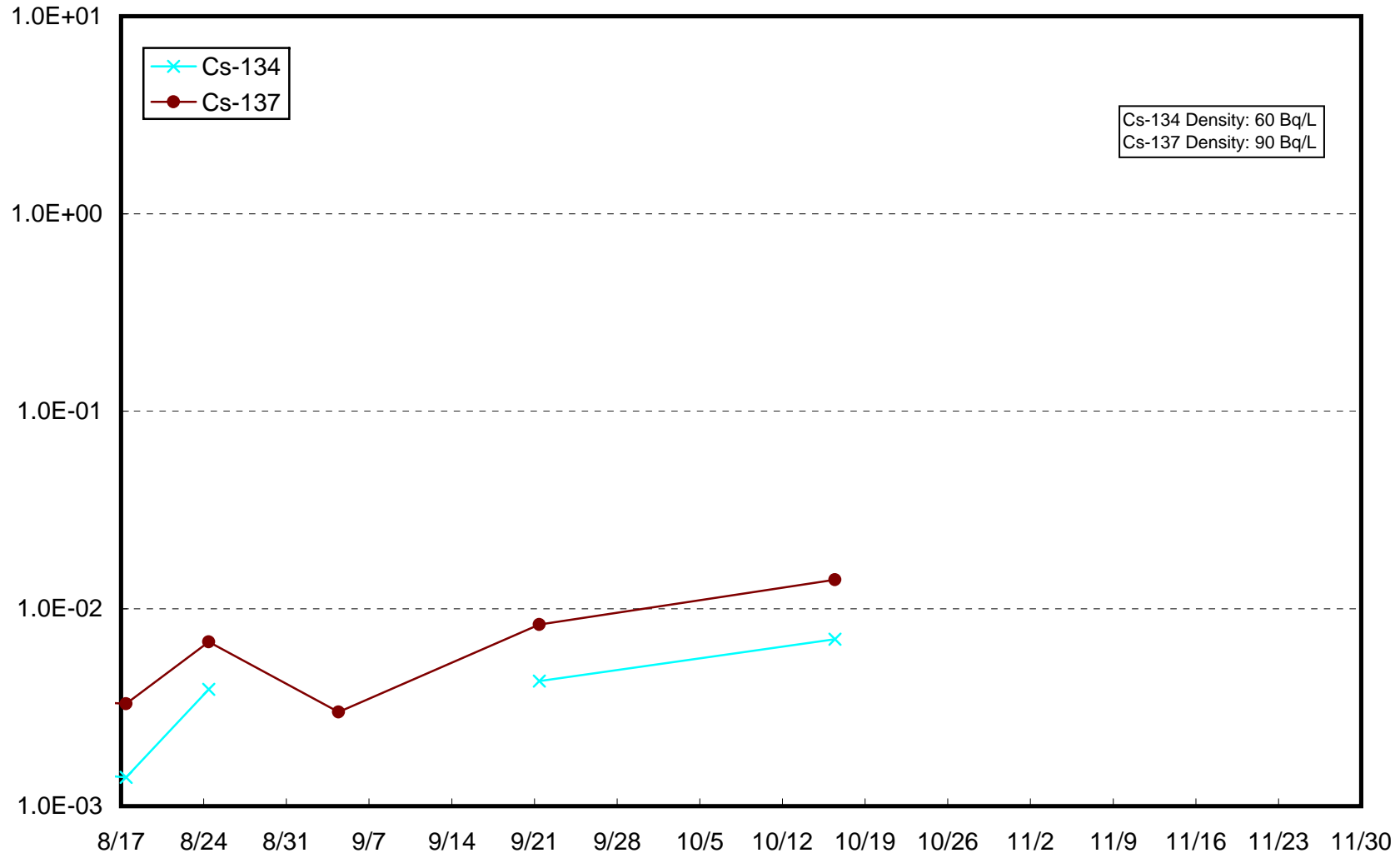
Radioactivity Density of the Seawater in Ishinomaki Bay (T-MG1) Upper Layer (Bq/L)



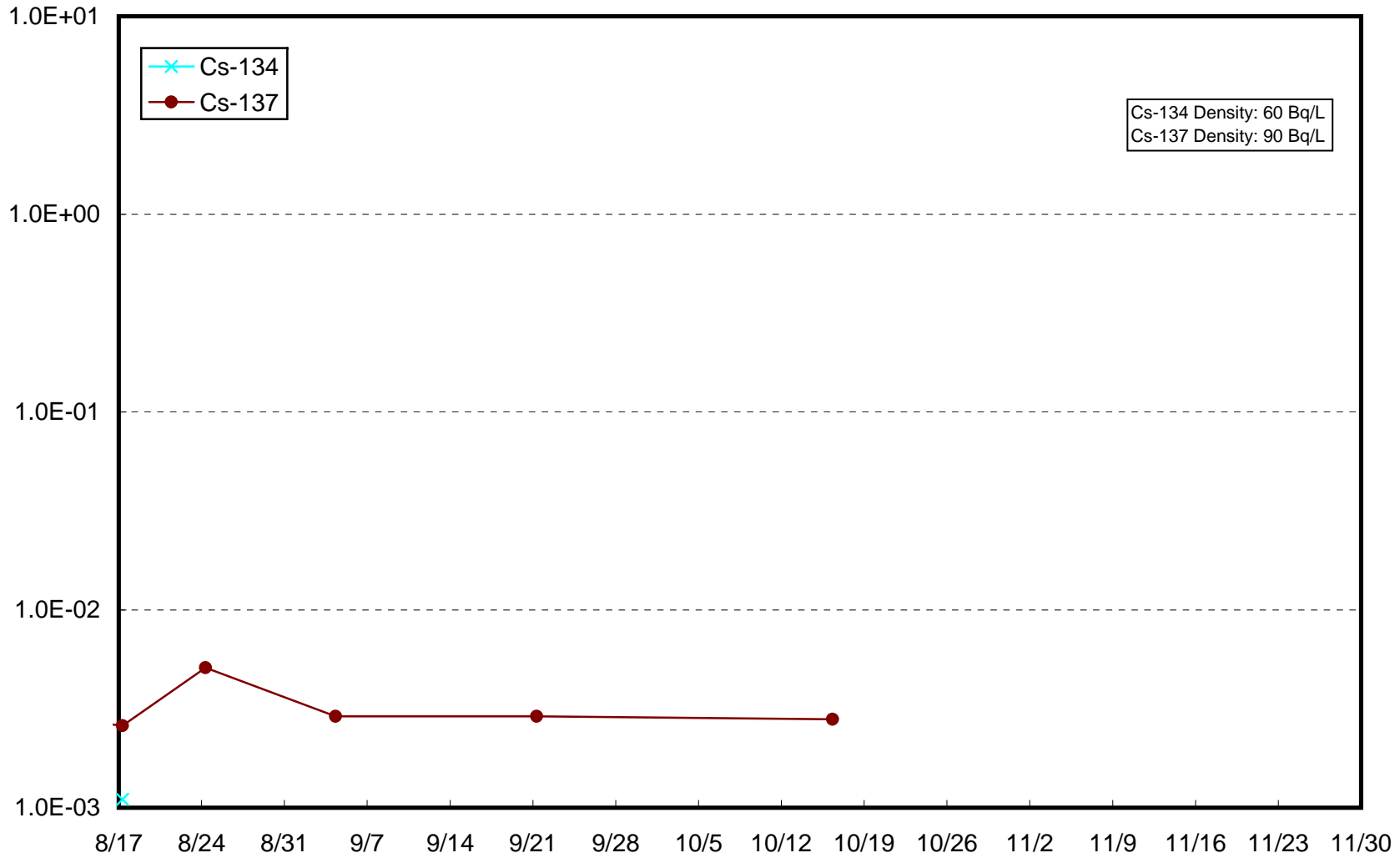
Radioactivity Density of the Seawater in Ishinomaki Bay (T-MG1) Middle Layer (Bq/L)



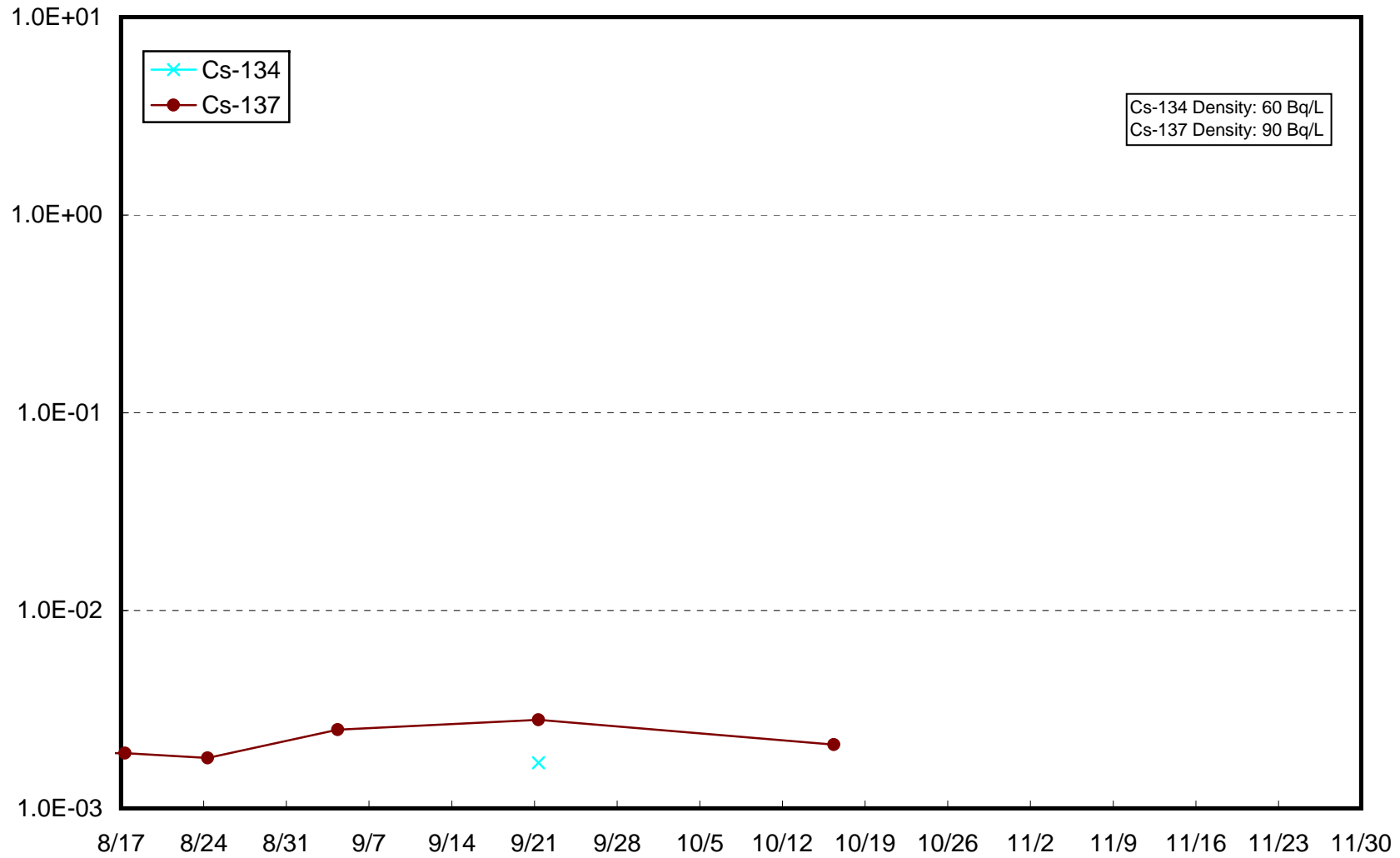
Radioactivity Density of the Seawater in Ishinomaki Bay (T-MG1) Lower Layer (Bq/L)



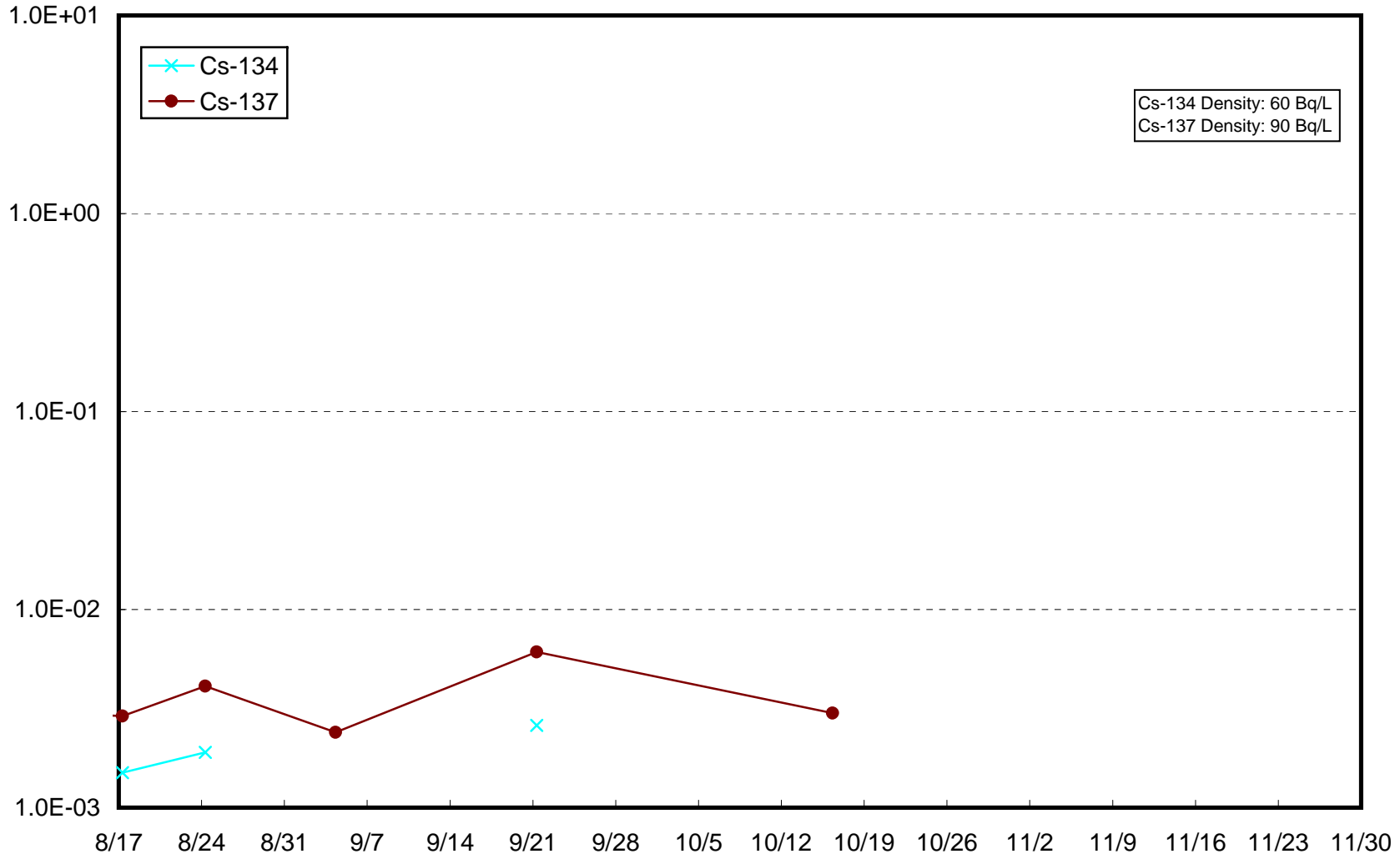
Radioactivity Density of the Seawater at Offshore of Kinkasan East (T-MG2) Upper Layer (Bq/L)



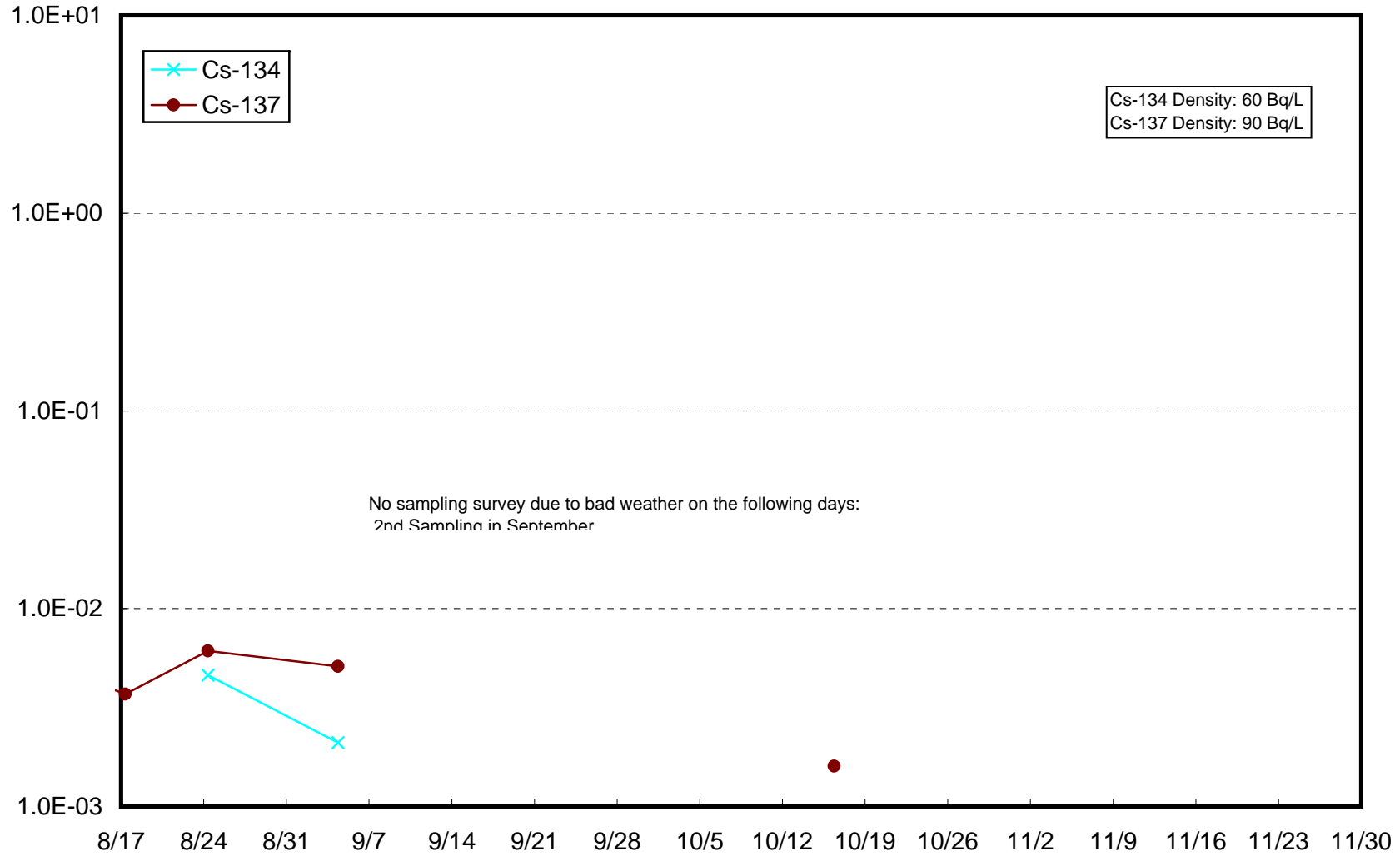
Radioactivity Density of the Seawater at Offshore of Kinkasan East (T-MG2) Middle Layer (Bq/L)



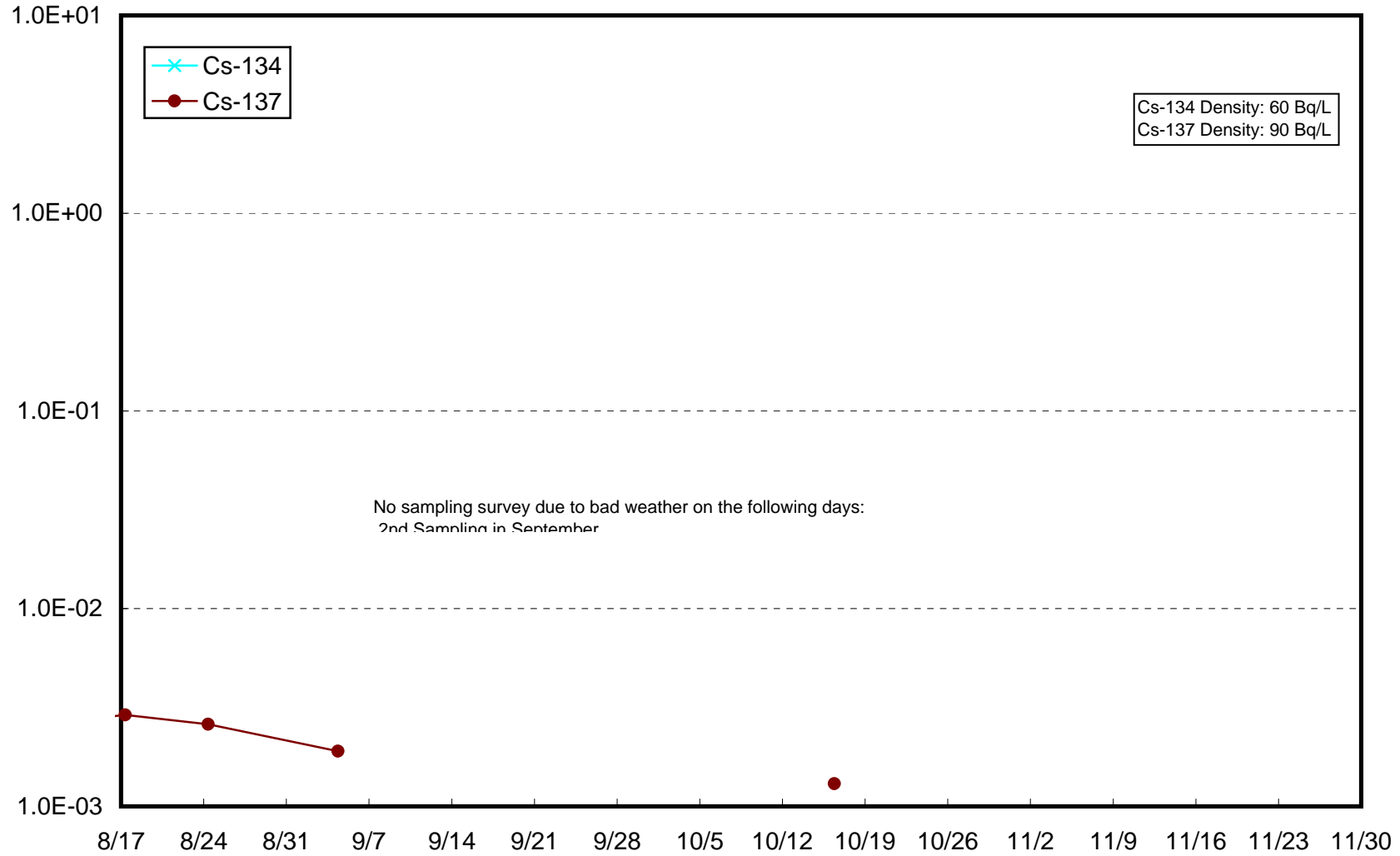
Radioactivity Density of the Seawater at Offshore of Kinkasan East (T-MG2) Lower Layer (Bq/L)



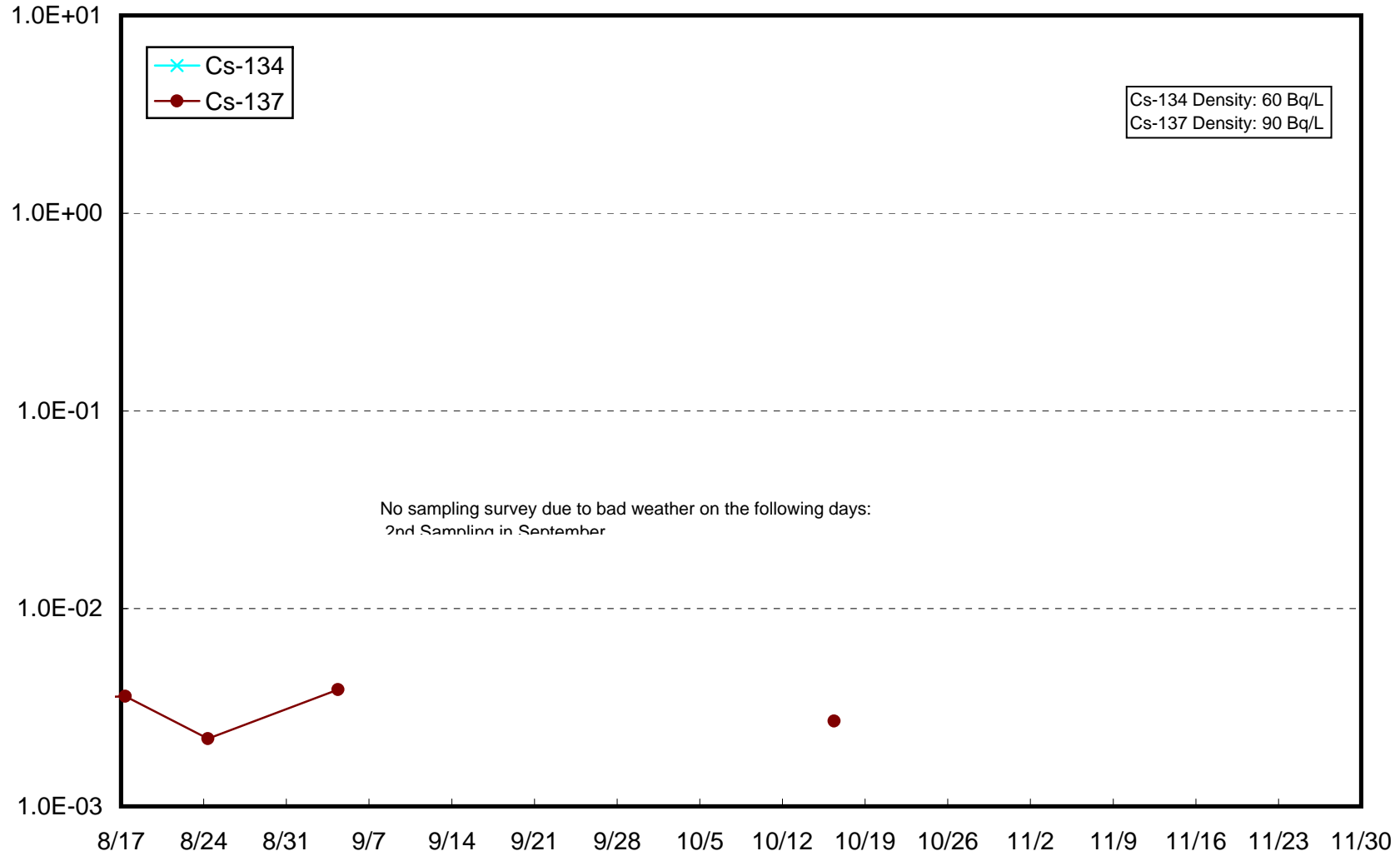
Radioactivity Density of the Seawater at Offshore of Kinkasan South (T-MG3) Upper Layer (Bq/L)



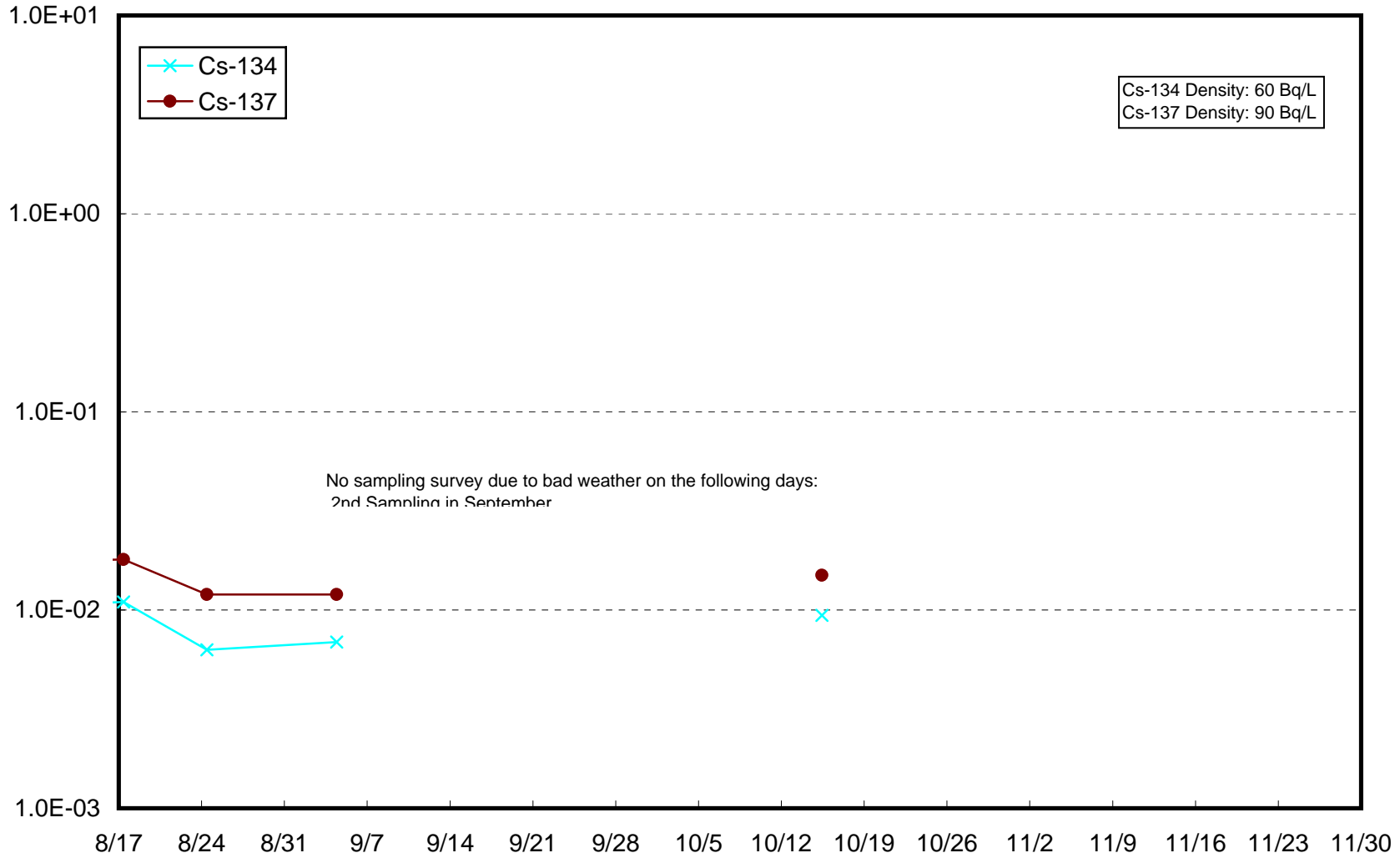
Radioactivity Density of the Seawater at Offshore of Kinkasan South (T-MG3) Middle Layer (Bq/L)



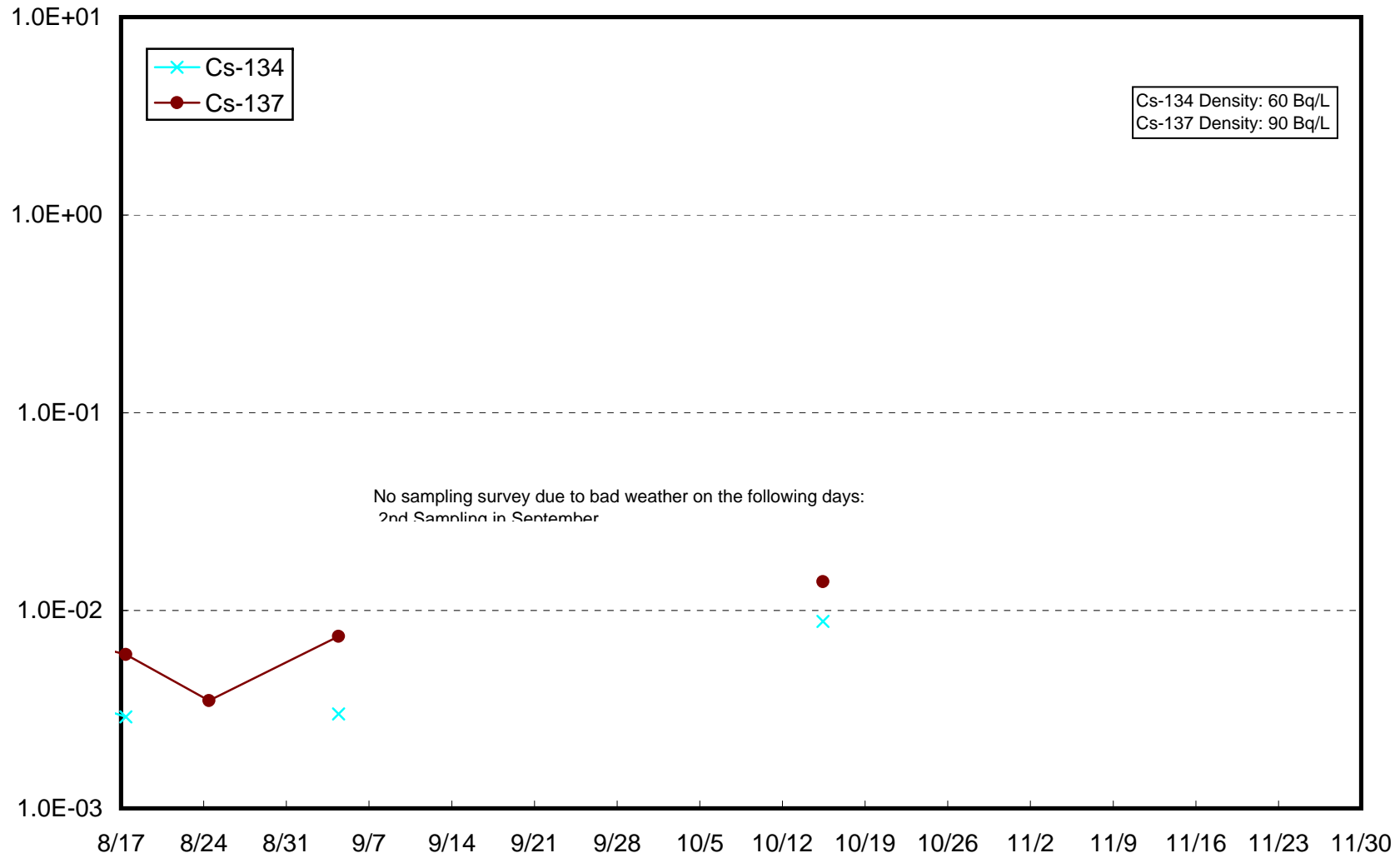
Radioactivity Density of the Seawater at Offshore of Kinkasan South (T-MG3) Lower Layer (Bq/L)



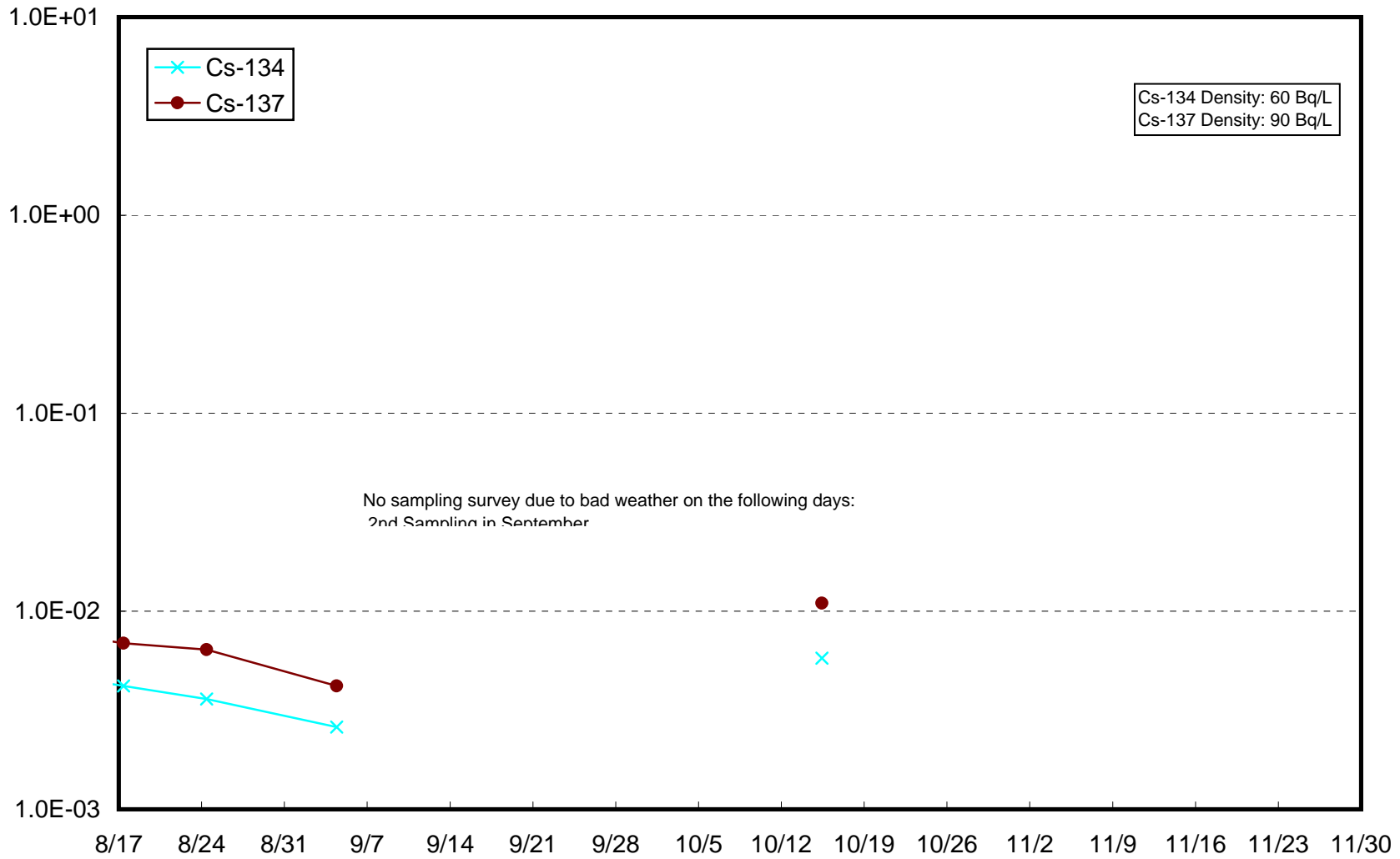
Radioactivity Density of the Seawater at Offshore of Shichigahama (T-MG4) Upper Layer (Bq/L)



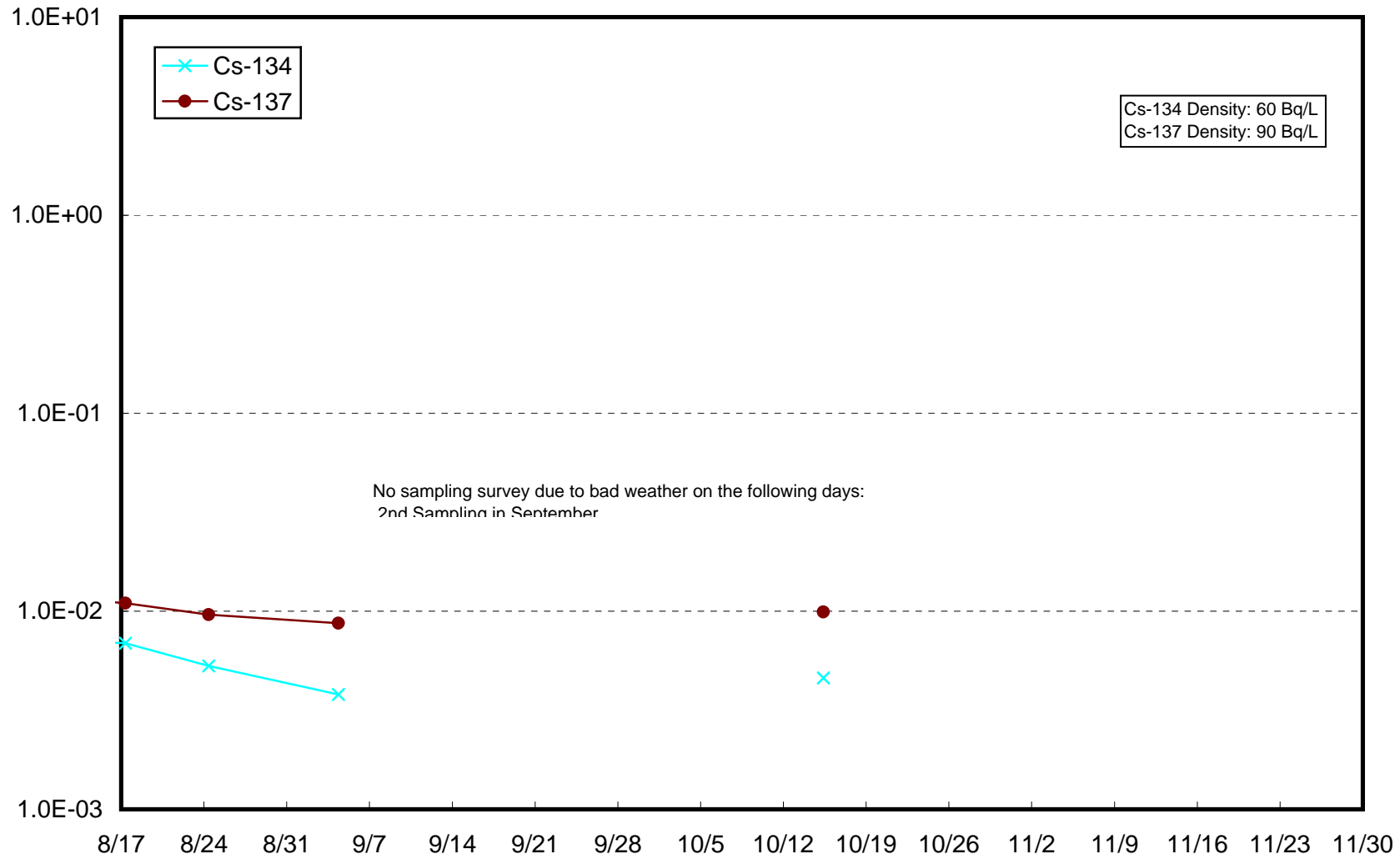
Radioactivity Density of the Seawater at Offshore of Shichigahama (T-MG4) Middle Layer (Bq/L)



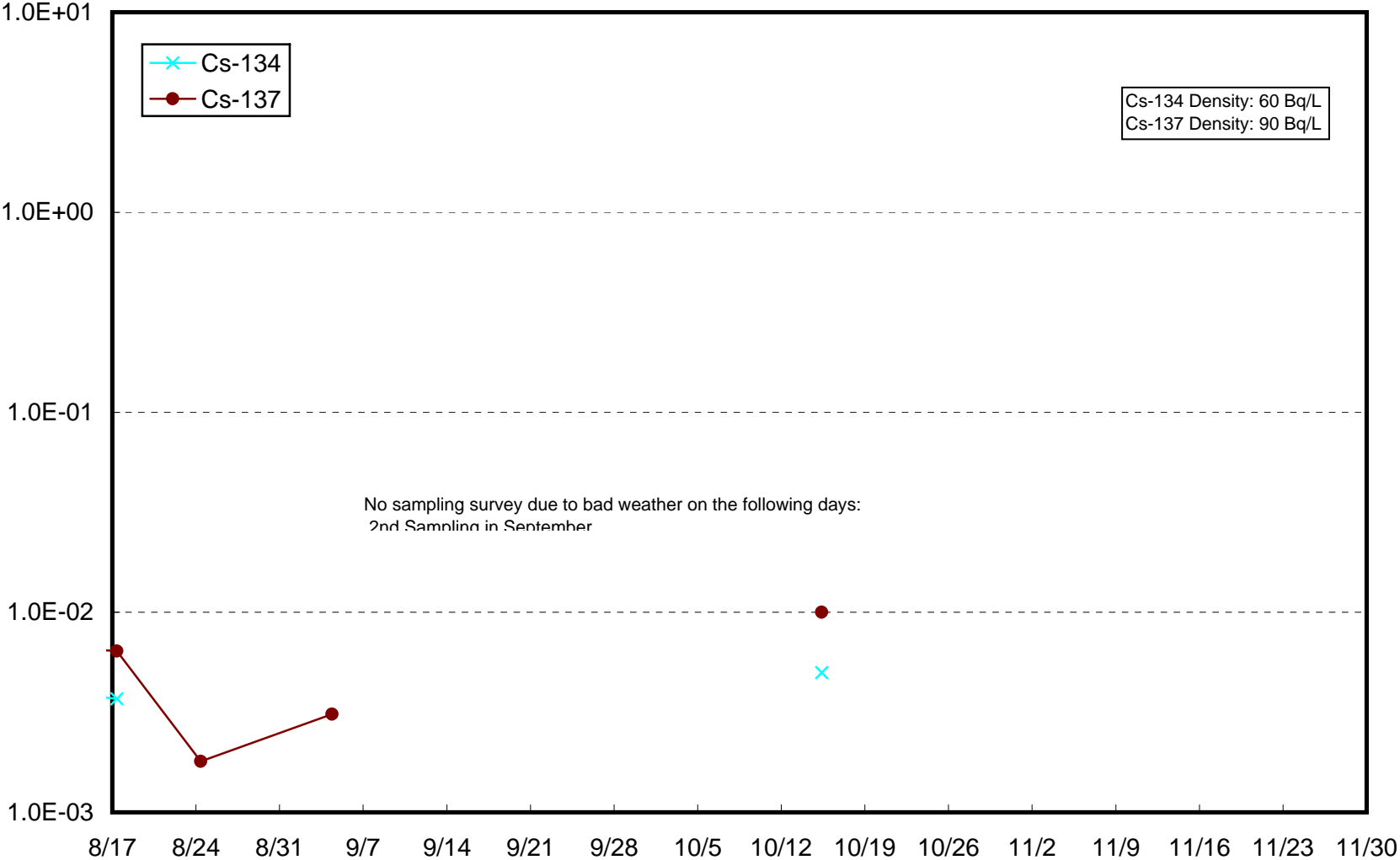
Radioactivity Density of the Seawater at Offshore of Shichigahama (T-MG4) Lower Layer (Bq/L)



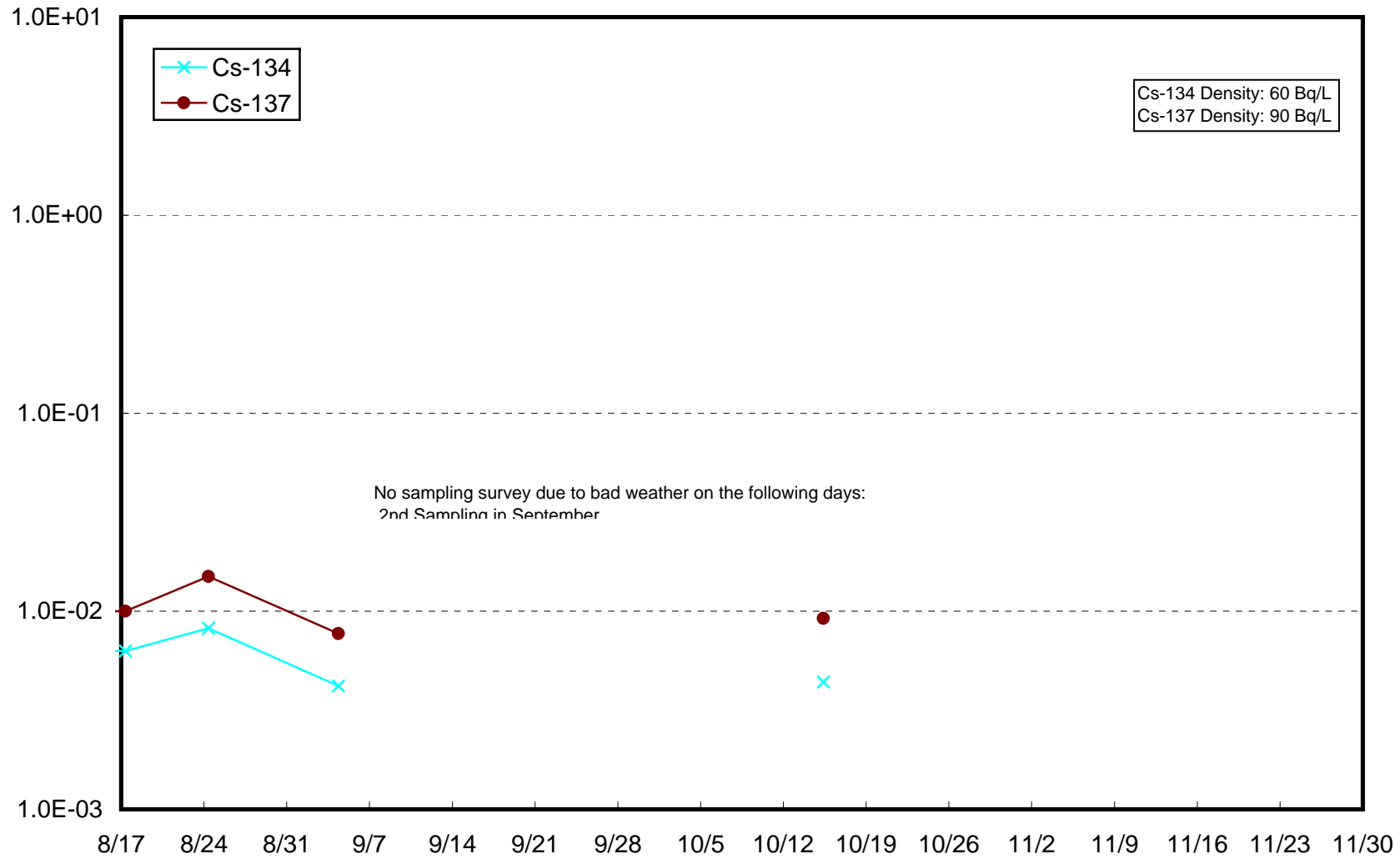
Radioactivity Density of the Seawater in the Central Area of Sendai Bay (T-MG5) Upper Layer (Bq/L)



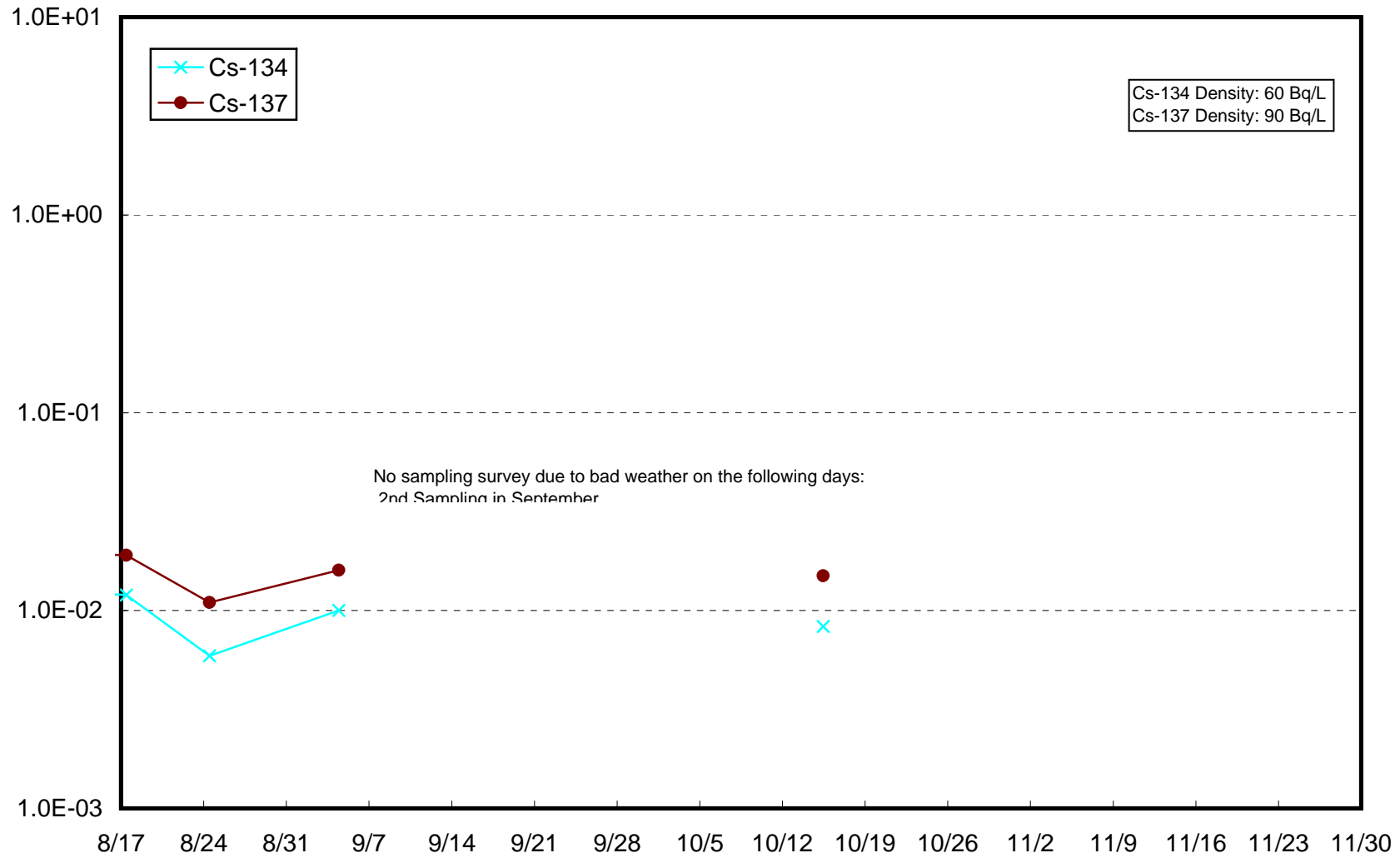
Radioactivity Density of the Seawater in the Central Area of Sendai Bay (T-MG5) Middle Layer (Bq/L)



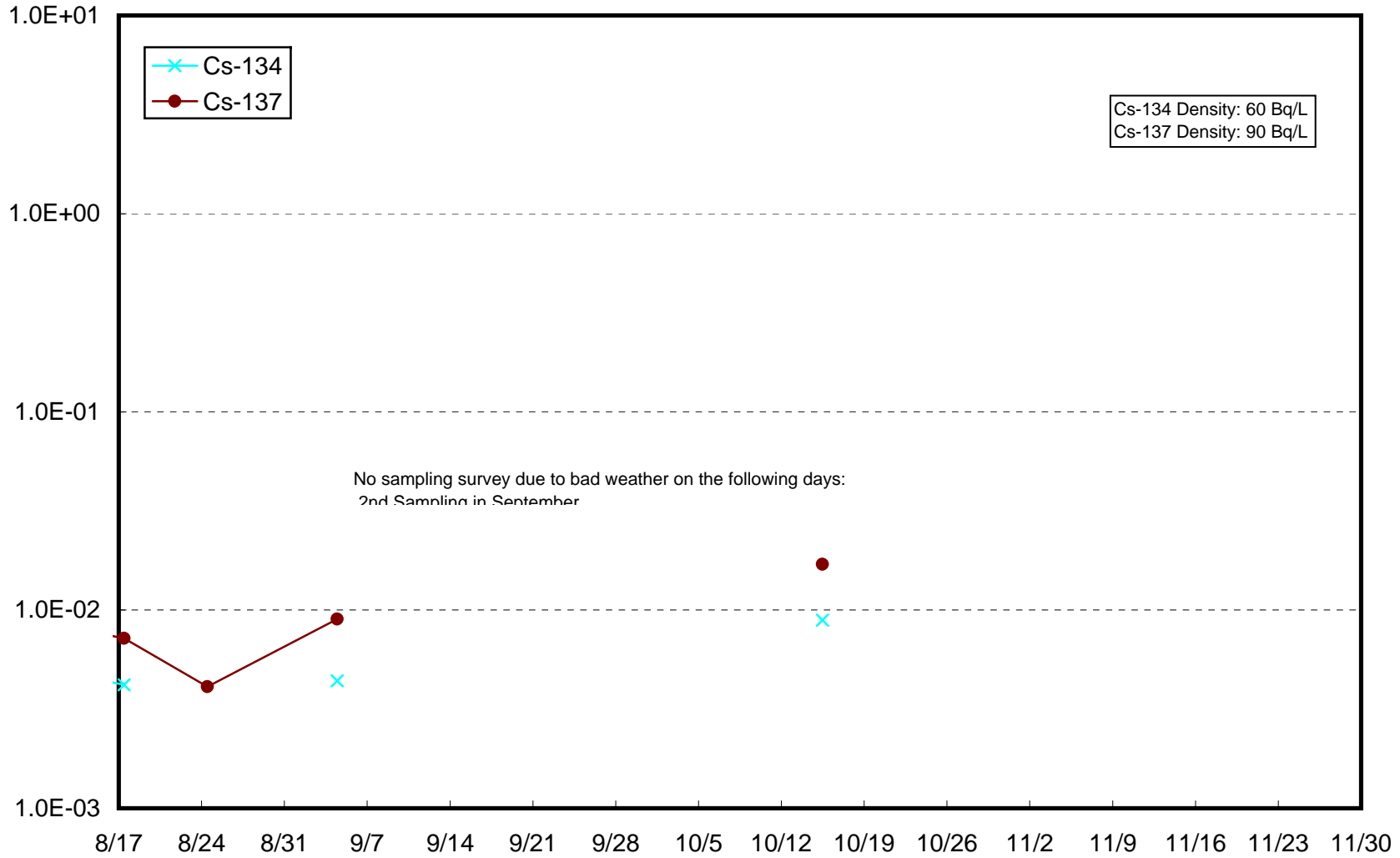
Radioactivity Density of the Seawater in the Central Area of Sendai Bay (T-MG5) Lower Layer (Bq/L)



Radioactivity Density of the Seawater at Offshore of Abukuma River (T-MG6) Upper Layer (Bq/L)



Radioactivity Density of the Seawater at Offshore of Abukuma River (T-MG6) Middle Layer (Bq/L)



Radioactivity Density of the Seawater at Offshore of Abukuma River (T-MG6) Lower Layer (Bq/L)

