

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Coast, Fukushima Daiichi Nuclear Power Station >

(Data summarized on November 28)

| Place of Sampling | North of Unit 5-6 Discharge Channel at Fukushima Daiichi NPS (Approx. 30m North of Unit 5-6 Discharge Channel) | | Around South Discharge Channel of Fukushima Daiichi NPS (Approx. 1.3km South of Unit 1-4 Discharge Channel) | | 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.) |
|----------------------------------|---|-------------------------|--|-------------------------|--|
| Time of Sampling | Nov 27, 2012 7:20 AM | | Nov 27, 2012 8:10 AM | | |
| Detected Nuclides (Half-life) | Density of Sample (Bq/L) | Scaling Factor (/) | Density of Sample (Bq/L) | Scaling Factor (/) | |
| I-131 (Approx. 8 days) | ND | - | ND | - | 40 |
| Cs-134 (Approx. 2 years) | ND | - | ND | - | 60 |
| Cs-137 (Approx. 30 years) | ND | - | ND | - | 90 |

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

* Data of other nuclides is under evaluation.

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

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

I-131: Approx. 0.48Bq/L, Cs-134: Approx.1.1Bq/L, Cs-137: Approx.1.5Bq/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 the Radioactive Materials in the Seawater < Offshore 1/3 >

(Data summarized on November 28)

| Place of Sampling (Place No.) | 3km Offshore of Odaka Ward (T-14) | | | | 3km Offshore of Odaka Ward (T-14) | | | | 15km Offshore of Fukushima Daiichi NPS (T-5) | | | | ② 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 | | Lower Layer | | Upper Layer | | Lower Layer | | Upper Layer | | Lower Layer | | |
| Time of Sampling | Oct 16, 2012 8:30 AM | | Oct 16, 2012 8:30 AM | | Oct 22, 2012 8:55 AM | | Oct 22, 2012 8:55 AM | | Oct 17, 2012 8:45 AM | | Oct 17, 2012 8:45 AM | | |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | |
| Cs-134 (Approx. 2 years) | 0.027 | 0.00 | 0.020 | 0.00 | 0.019 | 0.00 | 0.017 | 0.00 | 0.0014 | 0.00 | 0.0041 | 0.00 | 60 |
| Cs-137 (Approx. 30 years) | 0.044 | 0.00 | 0.034 | 0.00 | 0.031 | 0.00 | 0.029 | 0.00 | 0.0034 | 0.00 | 0.0073 | 0.00 | 90 |

| Place of Sampling (Place No.) | 3km Offshore of Iwasawa Shore (T-11) | | | | 15km Offshore of Iwasawa Shore (T-7) | | | | 3km Offshore of Onahama Port (T-18) | | | | ② 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 | | Lower Layer | | Upper Layer | | Lower Layer | | Upper Layer | | Lower Layer | | |
| Time of Sampling | Oct 17, 2012 10:35 AM | | Oct 17, 2012 10:35 AM | | Oct 17, 2012 9:20 AM | | Oct 17, 2012 9:20 AM | | Oct 17, 2012 6:30 AM | | Oct 17, 2012 6:30 AM | | |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | |
| Cs-134 (Approx. 2 years) | 0.061 | 0.00 | 0.020 | 0.00 | ND | - | 0.0026 | 0.00 | 0.034 | 0.00 | 0.010 | 0.00 | 60 |
| Cs-137 (Approx. 30 years) | 0.096 | 0.00 | 0.031 | 0.00 | 0.0034 | 0.00 | 0.0049 | 0.00 | 0.058 | 0.00 | 0.021 | 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.0.0014Bq/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 the Radioactive Materials in the Seawater < Offshore 2/3 >

(Data summarized on November 28)

| Place of Sampling (Place No.) | 5km Offshore of Numanouchi (T-M10) | | | | 3km Offshore of Northern Iwaki City (T-12) | | | | 1km Offshore of Natsui River (T-17-1) | | | | ② 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 | | Lower Layer | | Upper Layer | | Lower Layer | | Upper Layer | | Lower Layer | | |
| Time of Sampling | Oct 17, 2012 7:35 AM | | Oct 17, 2012 7:35 AM | | Oct 22, 2012 9:10 AM | | Oct 22, 2012 9:10 AM | | Oct 22, 2012 8:30 AM | | Oct 22, 2012 8:30 AM | | |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | |
| Cs-134 (Approx. 2 years) | 0.0029 | 0.00 | 0.0040 | 0.00 | 0.011 | 0.00 | 0.0070 | 0.00 | 0.013 | 0.00 | 0.0065 | 0.00 | 60 |
| Cs-137 (Approx. 30 years) | 0.0073 | 0.00 | 0.0071 | 0.00 | 0.020 | 0.00 | 0.013 | 0.00 | 0.023 | 0.00 | 0.013 | 0.00 | 90 |

| Place of Sampling (Place No.) | 3km Offshore of Toyoma (T-20) | | | | Around 1km Offshore of Ota River (T-S1) | | | | Around 3km Offshore of Odaka Ward (T-S2) | | | | ② 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 | | Lower Layer | | Upper Layer | | Lower Layer | | Upper Layer | | Lower Layer | | |
| Time of Sampling | Oct 22, 2012 7:50 AM | | Oct 22, 2012 7:50 AM | | Oct 17, 2012 6:45 AM | | Oct 17, 2012 6:50 AM | | Oct 17, 2012 6:15 AM | | Oct 17, 2012 6:20 AM | | |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | |
| Cs-134 (Approx. 2 years) | 0.016 | 0.00 | 0.011 | 0.00 | 0.039 | 0.00 | 0.011 | 0.00 | 0.048 | 0.00 | 0.0059 | 0.00 | 60 |
| Cs-137 (Approx. 30 years) | 0.028 | 0.00 | 0.019 | 0.00 | 0.063 | 0.00 | 0.018 | 0.00 | 0.077 | 0.00 | 0.0098 | 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.

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

(Data summarized on November 28)

| Place of Sampling (Place No.) | Arounmd 15km Offshore of Odaka Ward (T-B1) | | | | Around 18km Offshore of Ukedo River (T-B2) | | | | Around 10km Offshore of 1F (T-B3) | | | | ② 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 | | Lower Layer | | Upper Layer | | Lower Layer | | Upper Layer | | Lower Layer | | |
| Time of Sampling | Oct 25, 2012 7:15 AM | | Oct 25, 2012 7:15 AM | | Oct 25, 2012 6:50 AM | | Oct 25, 2012 6:50 AM | | Oct 21, 2012 6:00 AM | | Oct 21, 2012 6:15 AM | | |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | |
| Cs-134 (Approx. 2 years) | 0.0039 | 0.00 | 0.0072 | 0.00 | 0.0037 | 0.00 | 0.0044 | 0.00 | 0.0035 | 0.00 | 0.0016 | 0.00 | 60 |
| Cs-137 (Approx. 30 years) | 0.0071 | 0.00 | 0.012 | 0.00 | 0.0054 | 0.00 | 0.0076 | 0.00 | 0.0056 | 0.00 | 0.0034 | 0.00 | 90 |

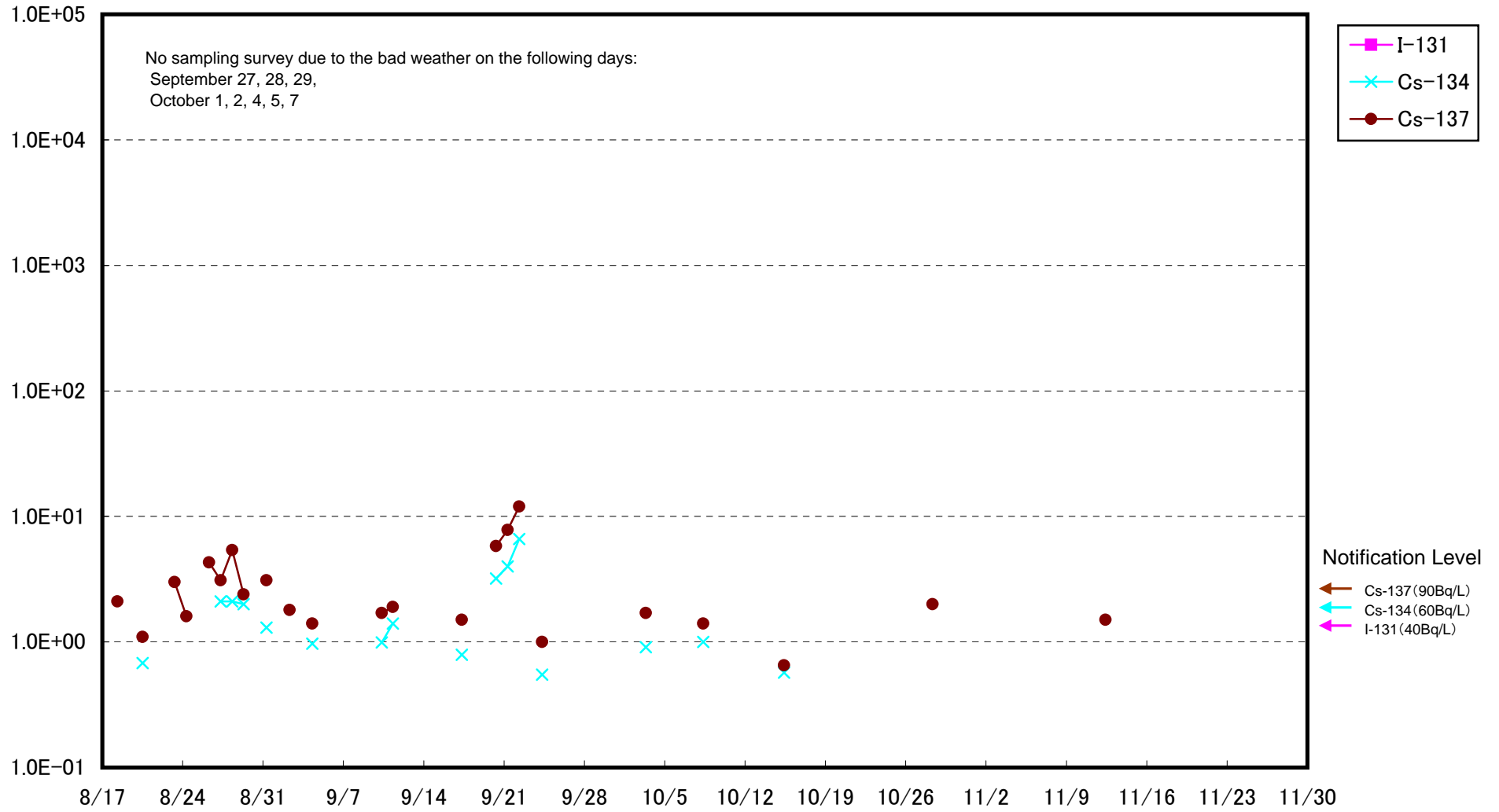
| Place of Sampling (Place No.) | Around 10km Offshore of 2F (T-B4) | | | | / | | | | / | | | | ② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.) |
|----------------------------------|--------------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|----------------------------|--|
| | Upper Layer | | Lower Layer | | Upper Layer | | Lower Layer | | Upper Layer | | Lower Layer | | |
| Time of Sampling | Oct 21, 2012 7:05 AM | | Oct 21, 2012 7:15 AM | | / | | / | | / | | / | | |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | |
| Cs-134 (Approx. 2 years) | 0.0020 | 0.00 | 0.0022 | 0.00 | / | / | / | / | / | / | / | / | 60 |
| Cs-137 (Approx. 30 years) | 0.0042 | 0.00 | 0.0042 | 0.00 | / | / | / | / | / | / | / | / | 90 |

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

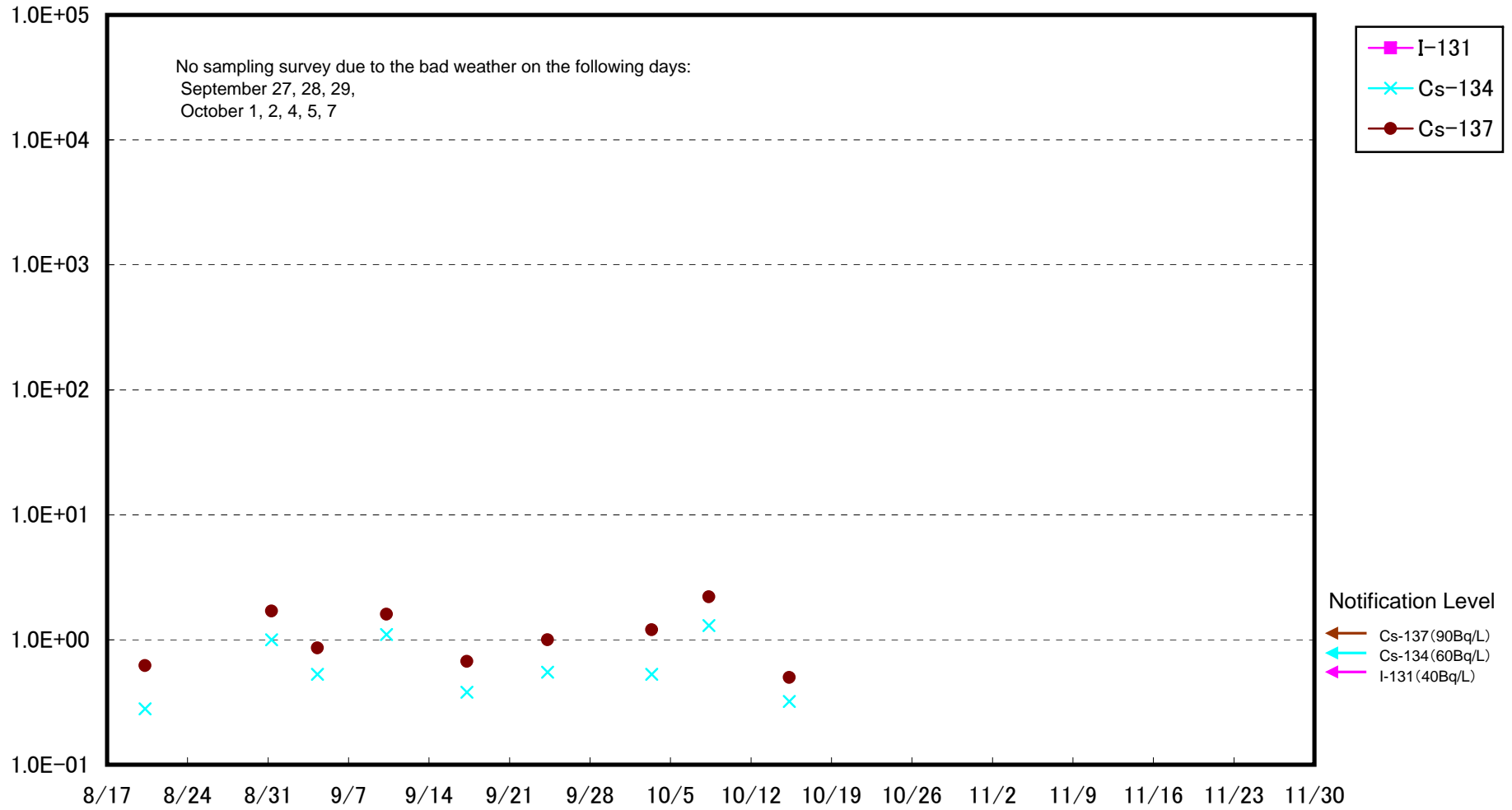
* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

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

Radioactivity Density of the Seawater at the North of 1F Unit 5-6 Discharge Channel (Bq/L)

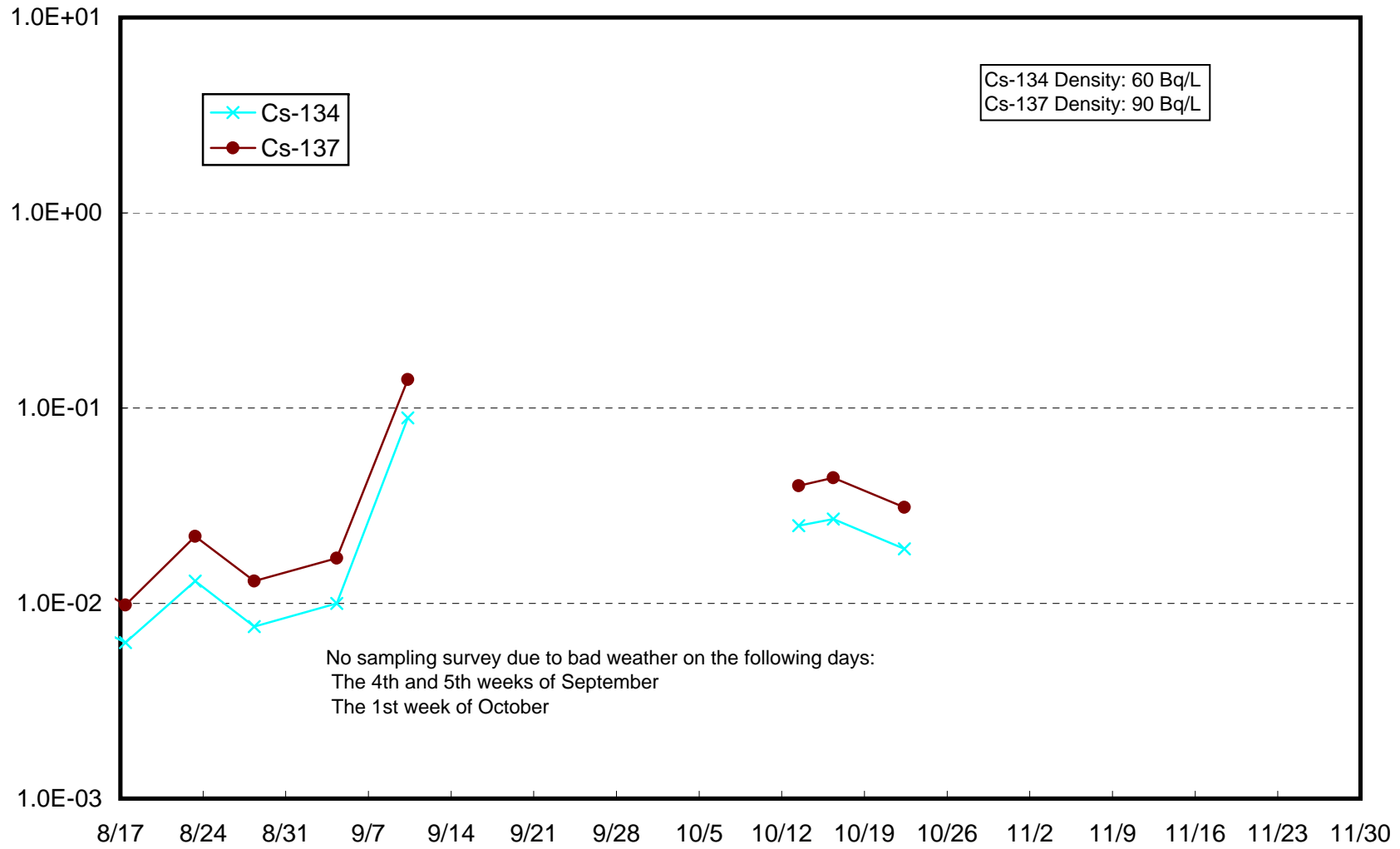


Radioactivity Density of the Seawater at 1F South Discharge Channel (Bq/L)

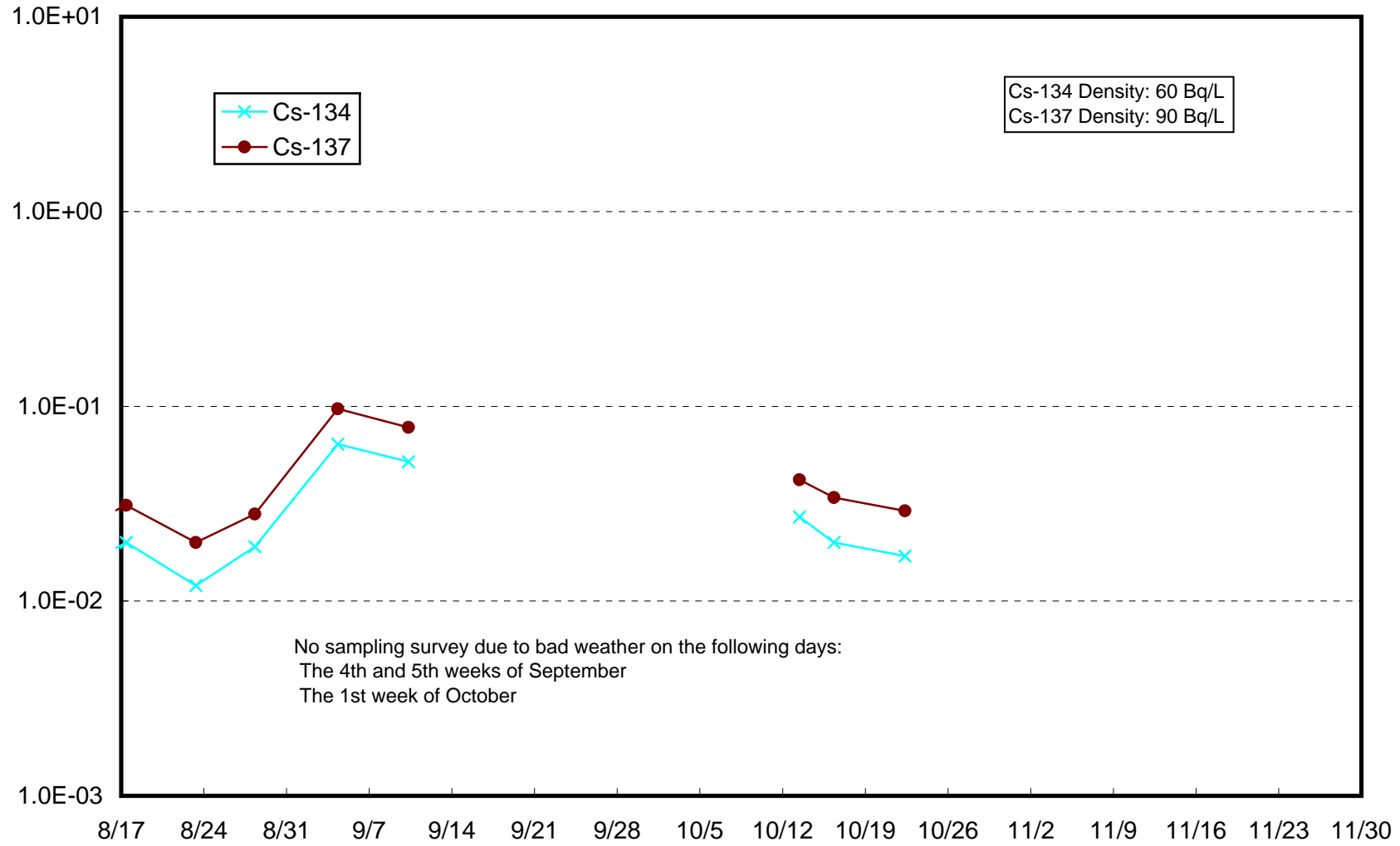


Sampling was conducted at around South Discharge Channel of Fukushima Daiichi NPS (approx. 330m south of Unit 1-4 Discharge Channel) until November 25, 2012.

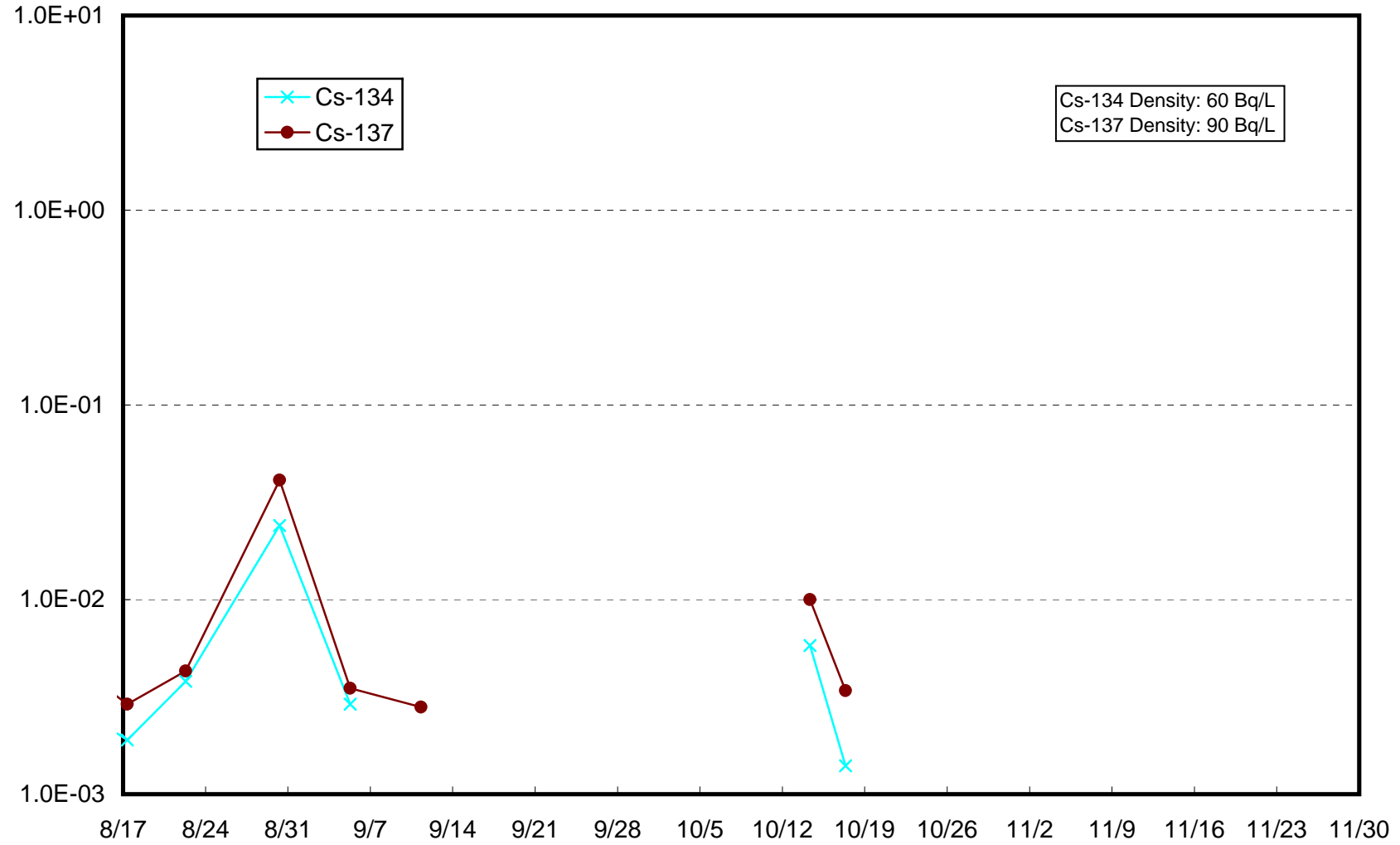
Radioactivity Density of the Seawater at 3km Offshore of Odaka Ward (T-14) Upper Layer (Bq/L)



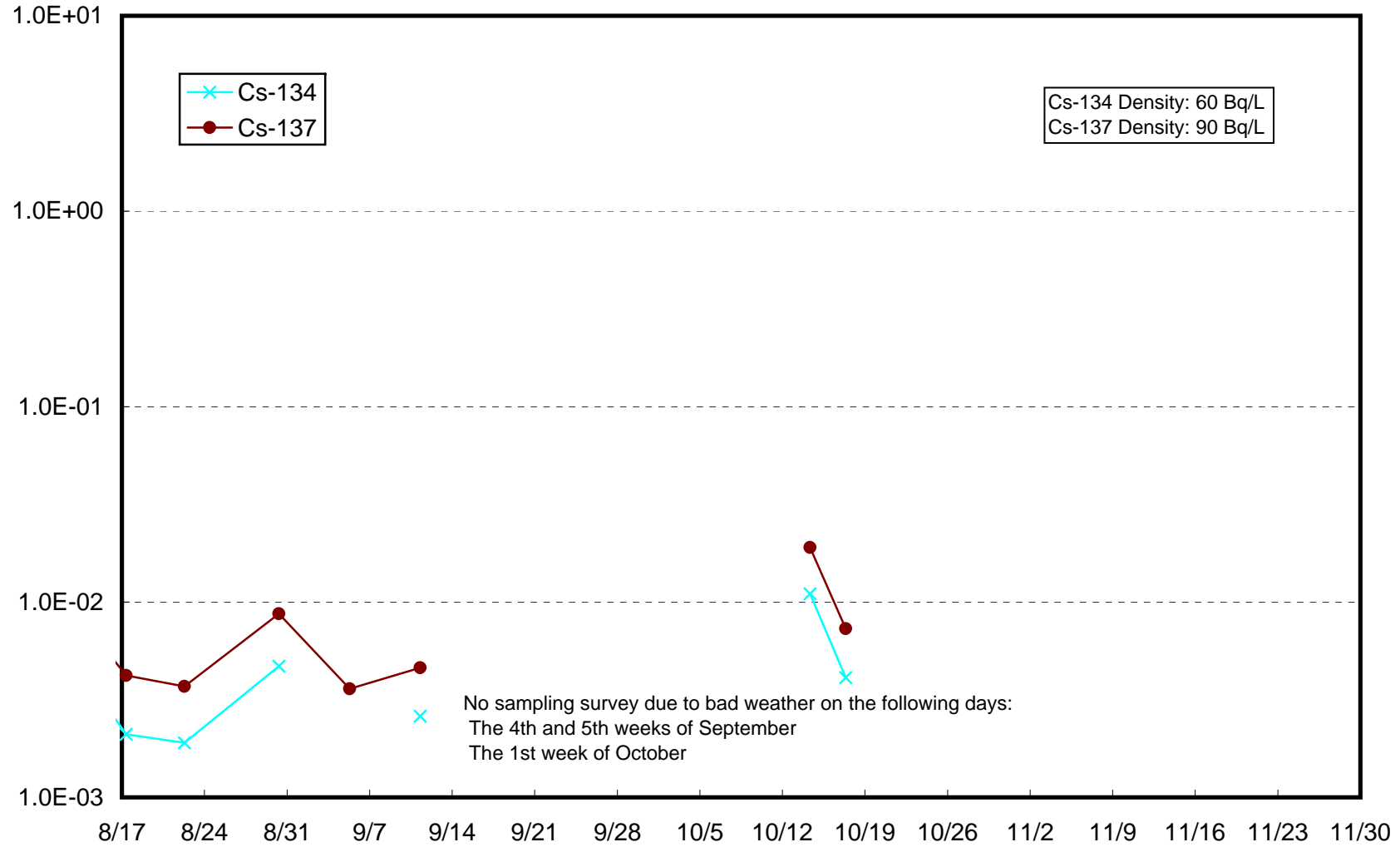
Radioactivity Density of the Seawater at 3km Offshore of Odaka Ward (T-14) Lower Layer (Bq/L)



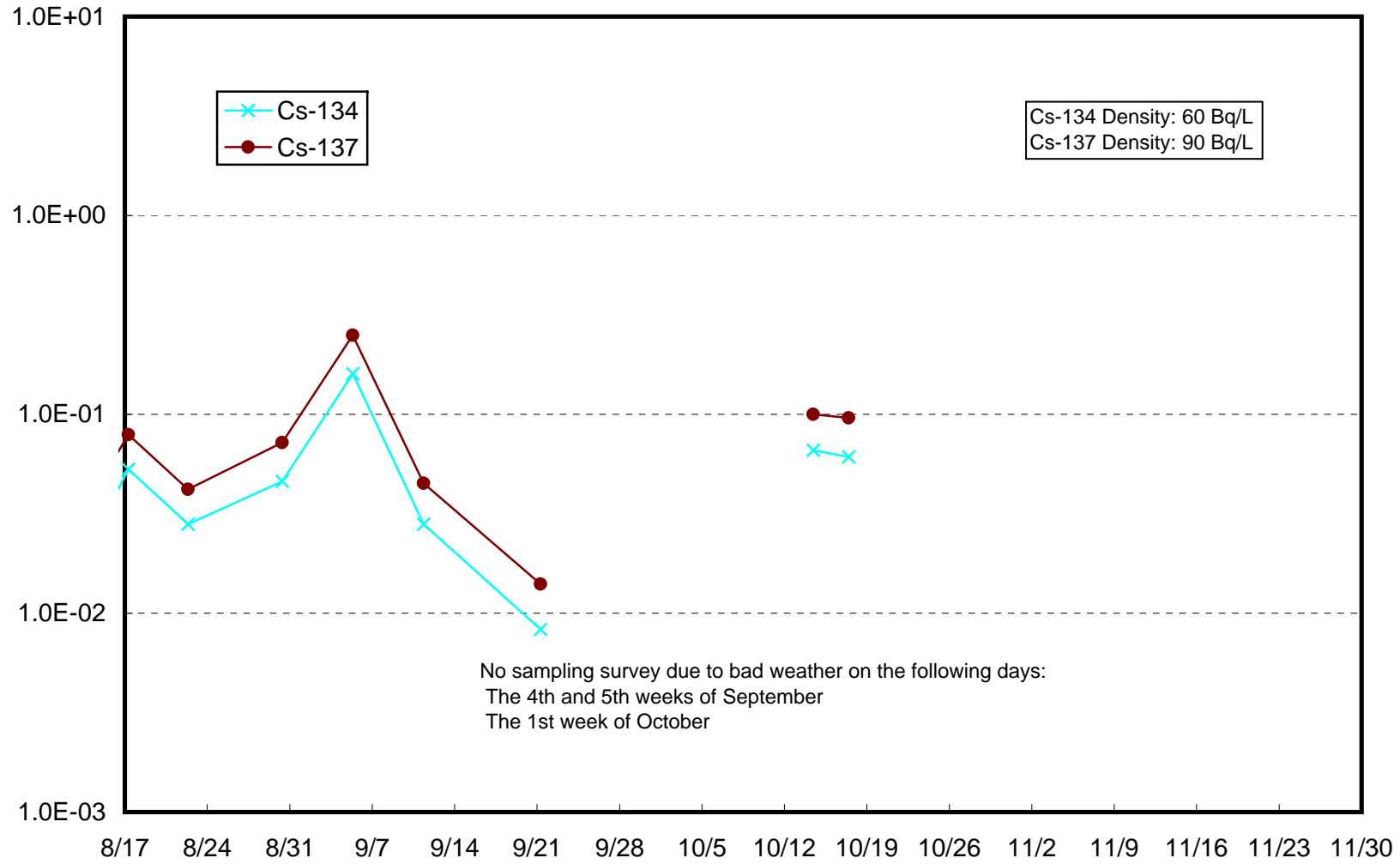
Radioactivity Density of the Seawater at 15km Offshore of Fukushima Daiichi NPS (T-5) Upper Layer (Bq/L)



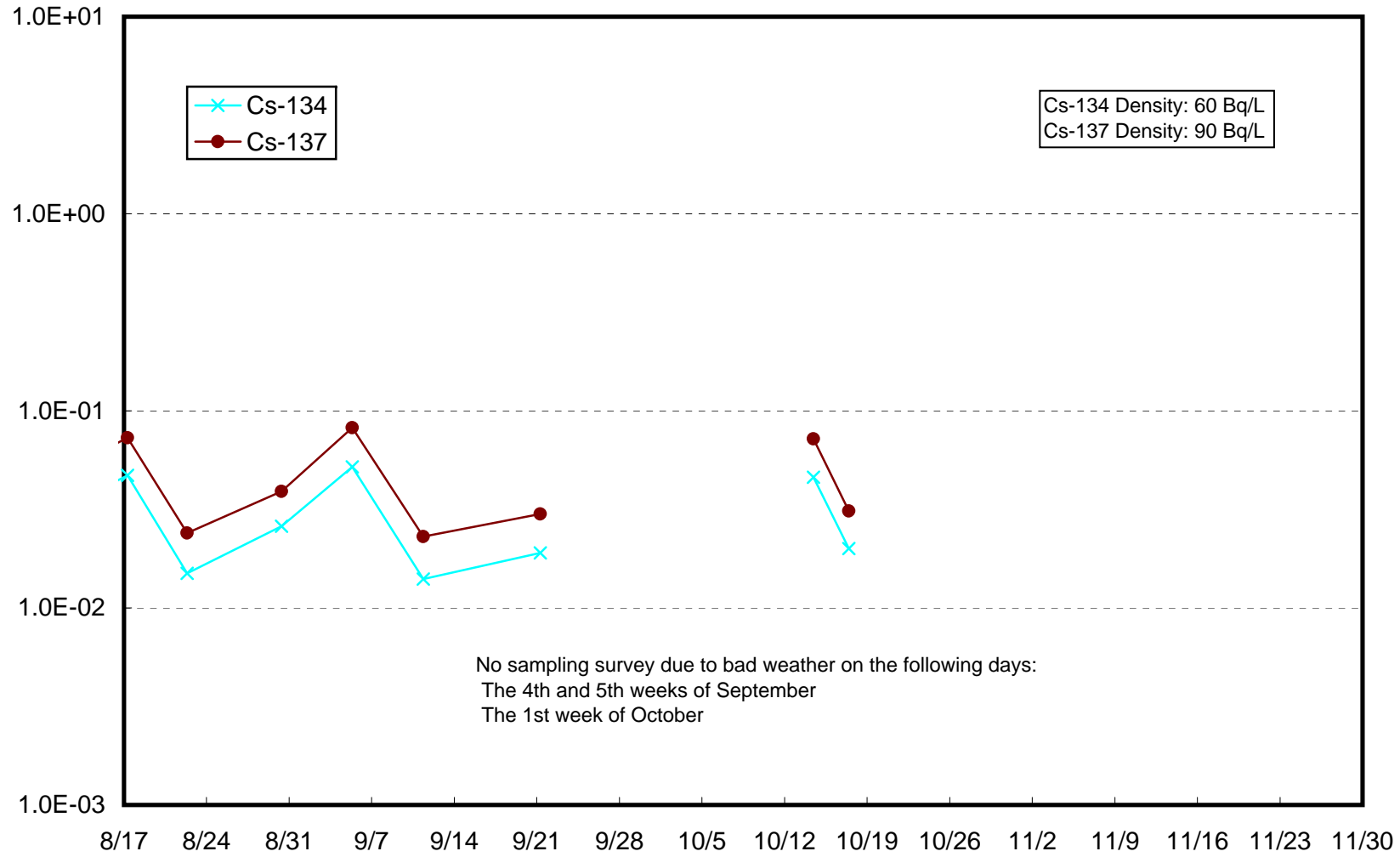
Radioactivity Density of the Seawater at 15km Offshore of Fukushima Daiichi NPS (T-5) Lower Layer (Bq/L)



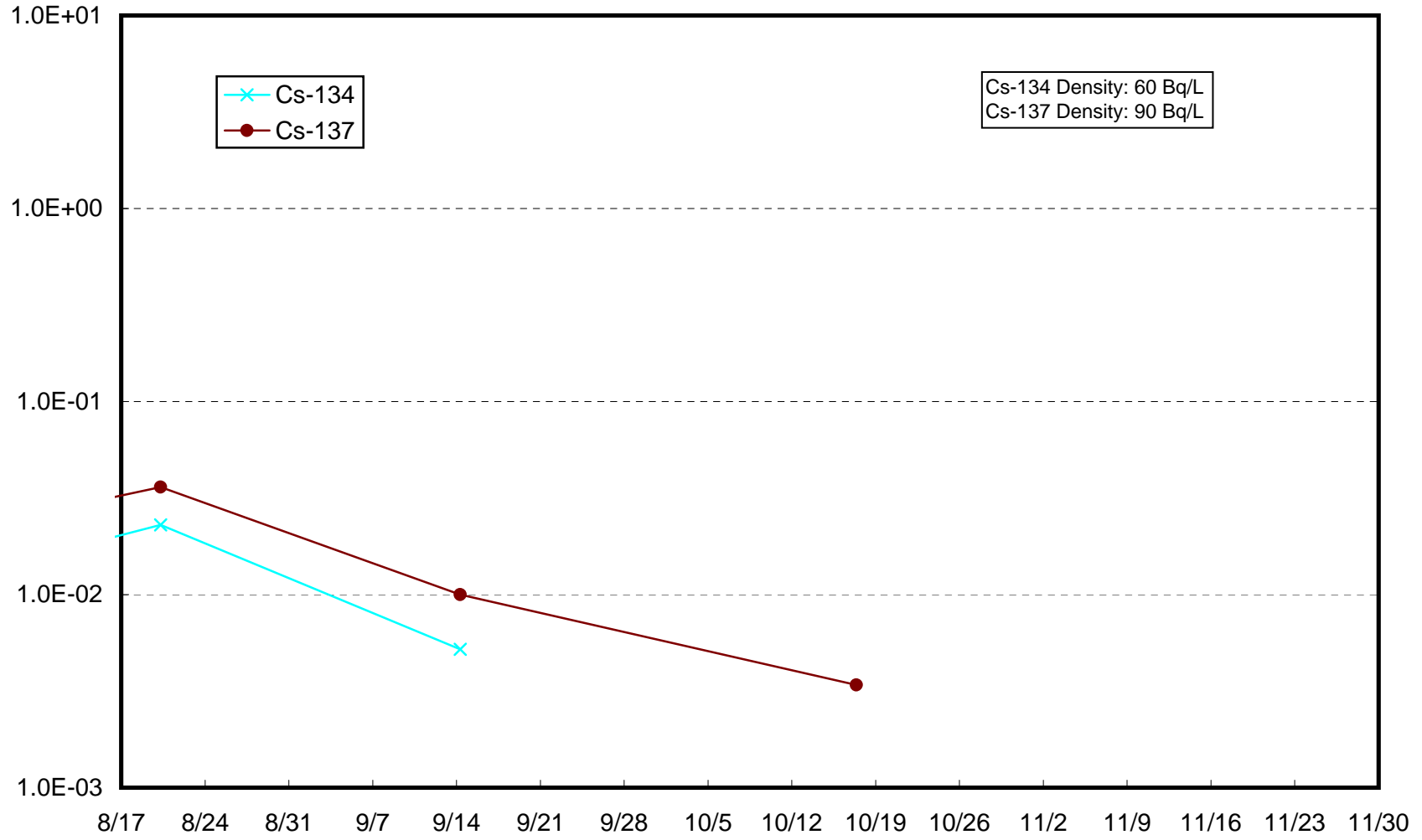
Radioactivity Density of the Seawater at 3km Offshore of Iwasawa Shore (T-11) Upper Layer (Bq/L)



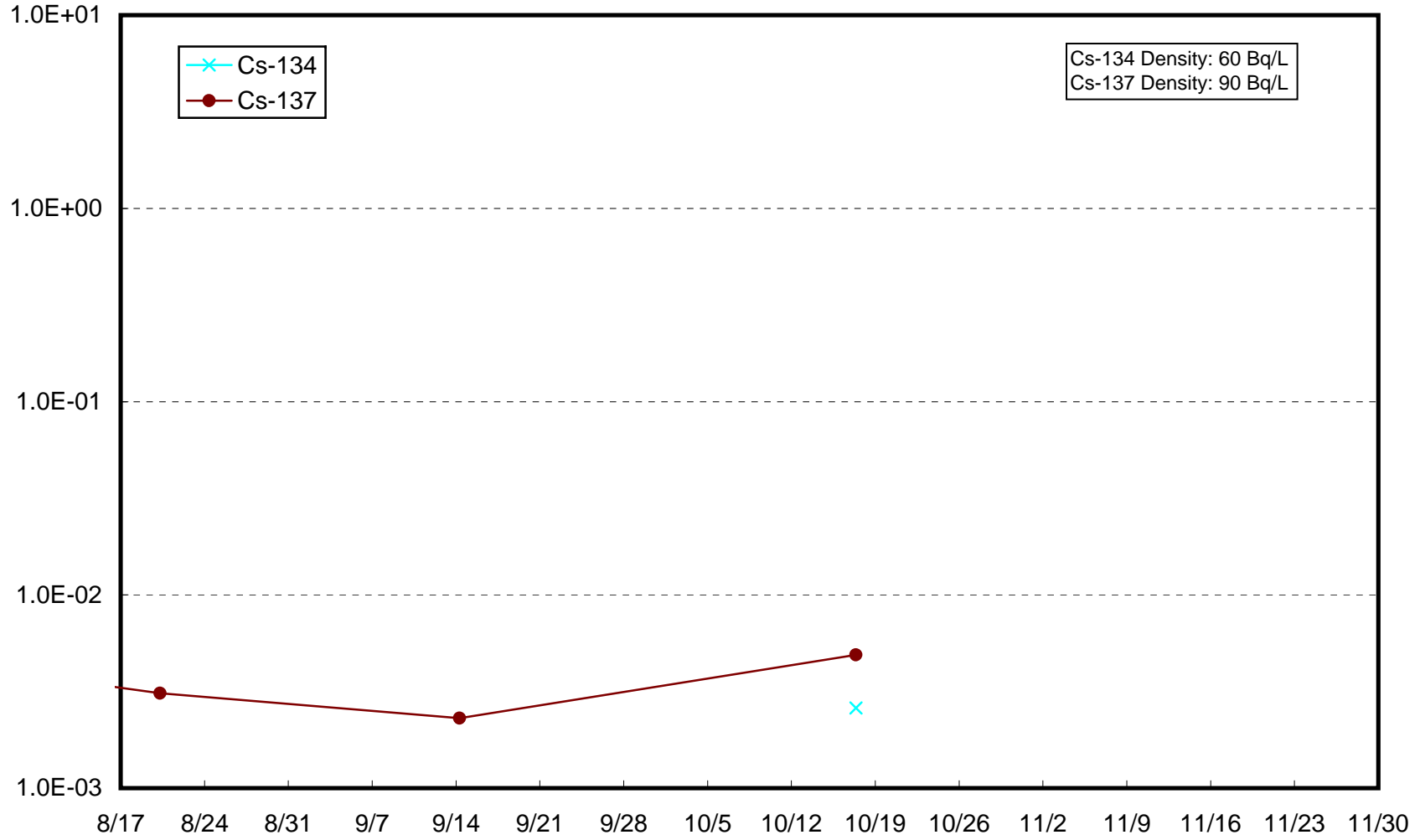
Radioactivity Density of the Seawater at 3km Offshore of Iwasawa Shore (T-11) Lower Layer (Bq/L)



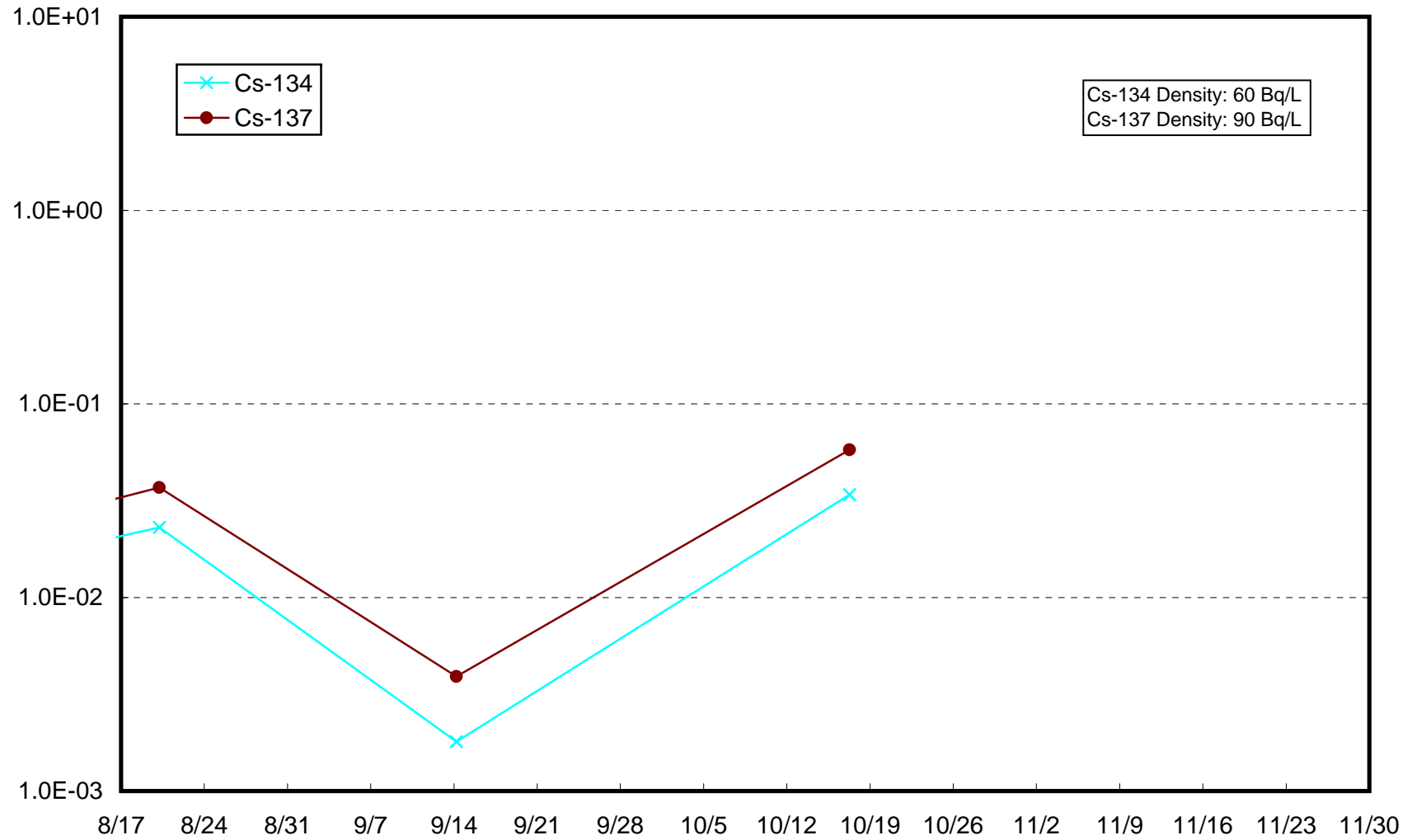
Radioactivity Density of the Seawater at 15km Offshore of Iwasawa Shore (T-7) Upper Layer (Bq/L)



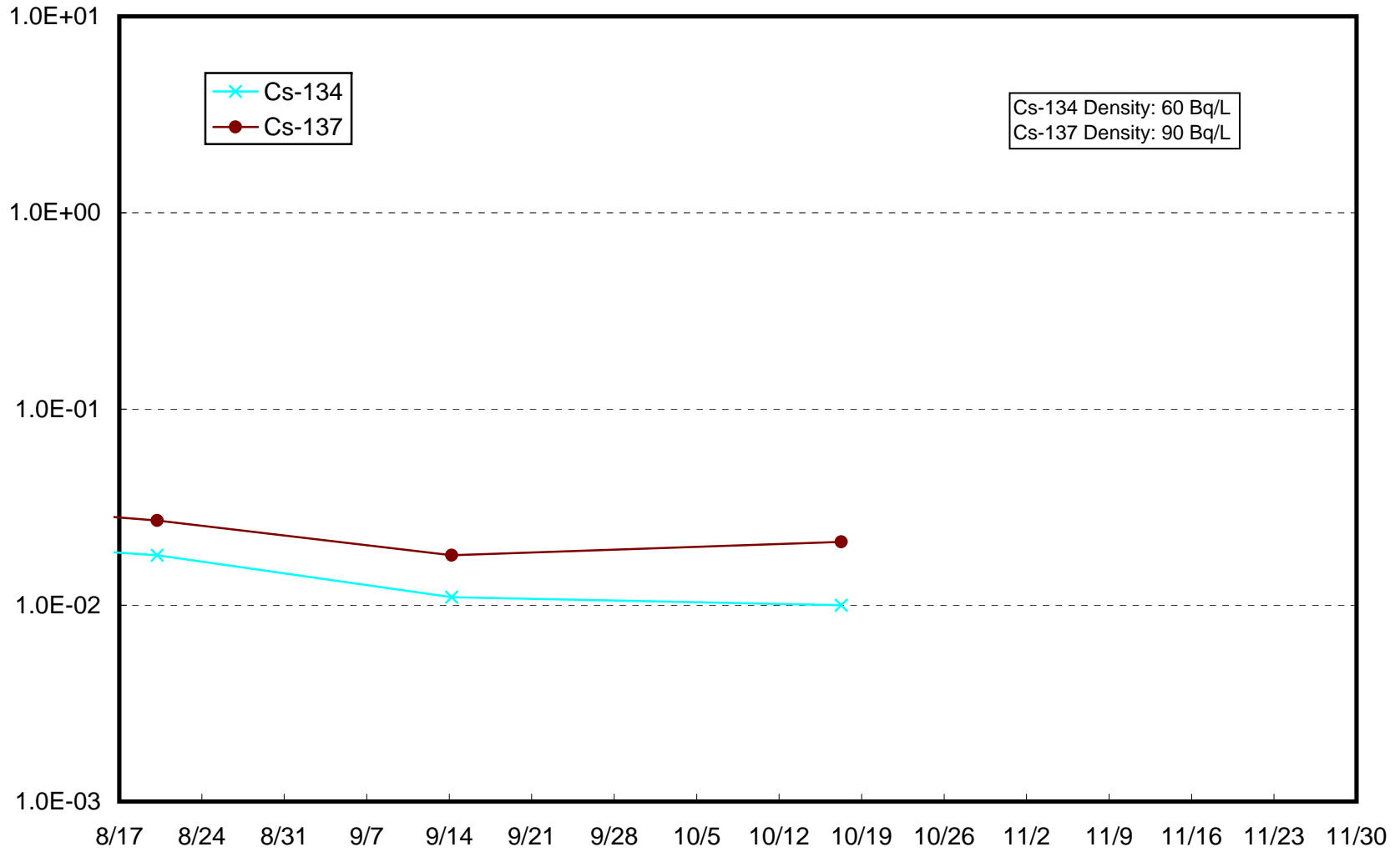
Radioactivity Density of the Seawater at 15km Offshore of Iwasawa Shore (T-7) Lower Layer (Bq/L)



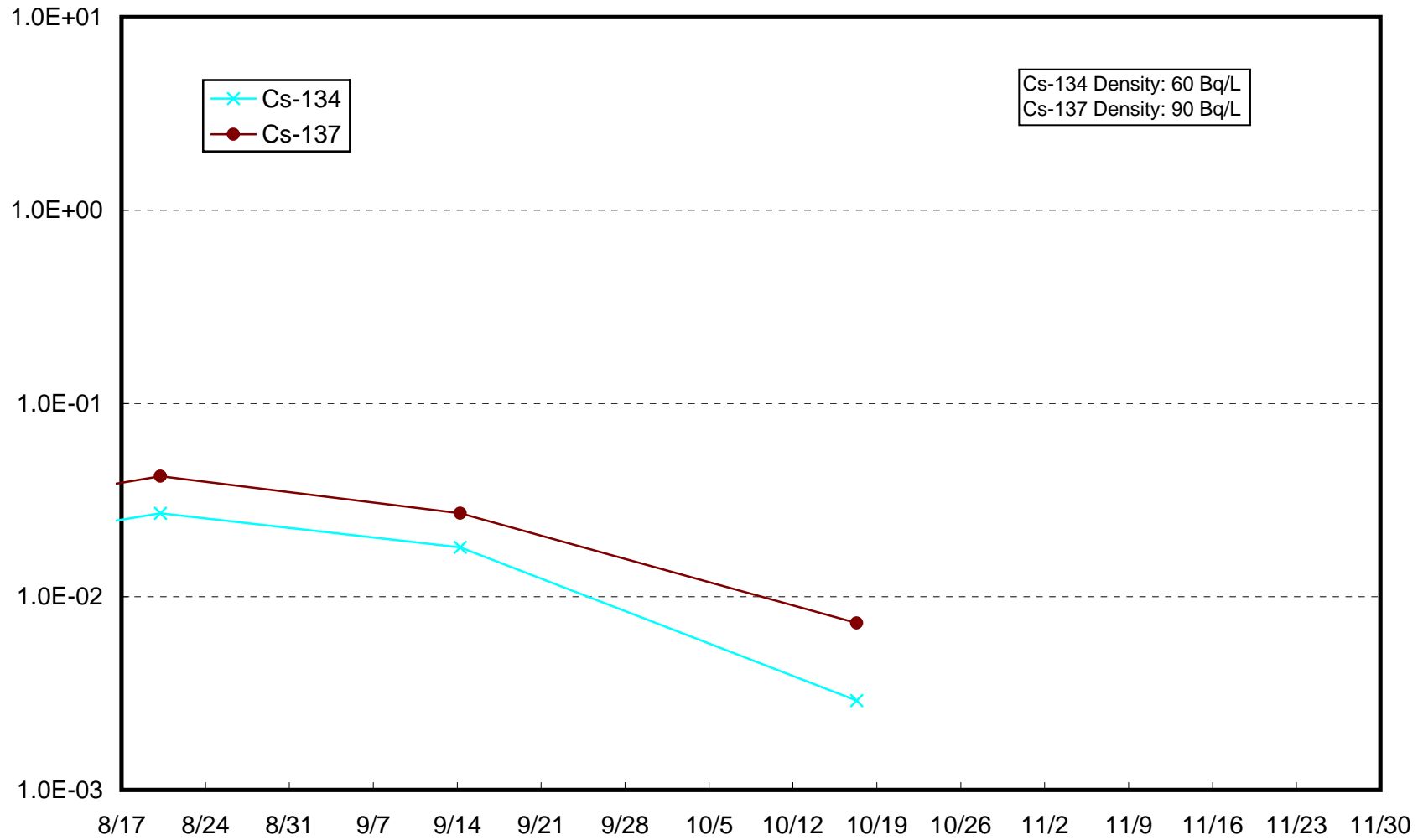
Radioactivity Density of the Seawater at 3km Offshore of Onahama Port (T-18) Upper Layer (Bq/L)



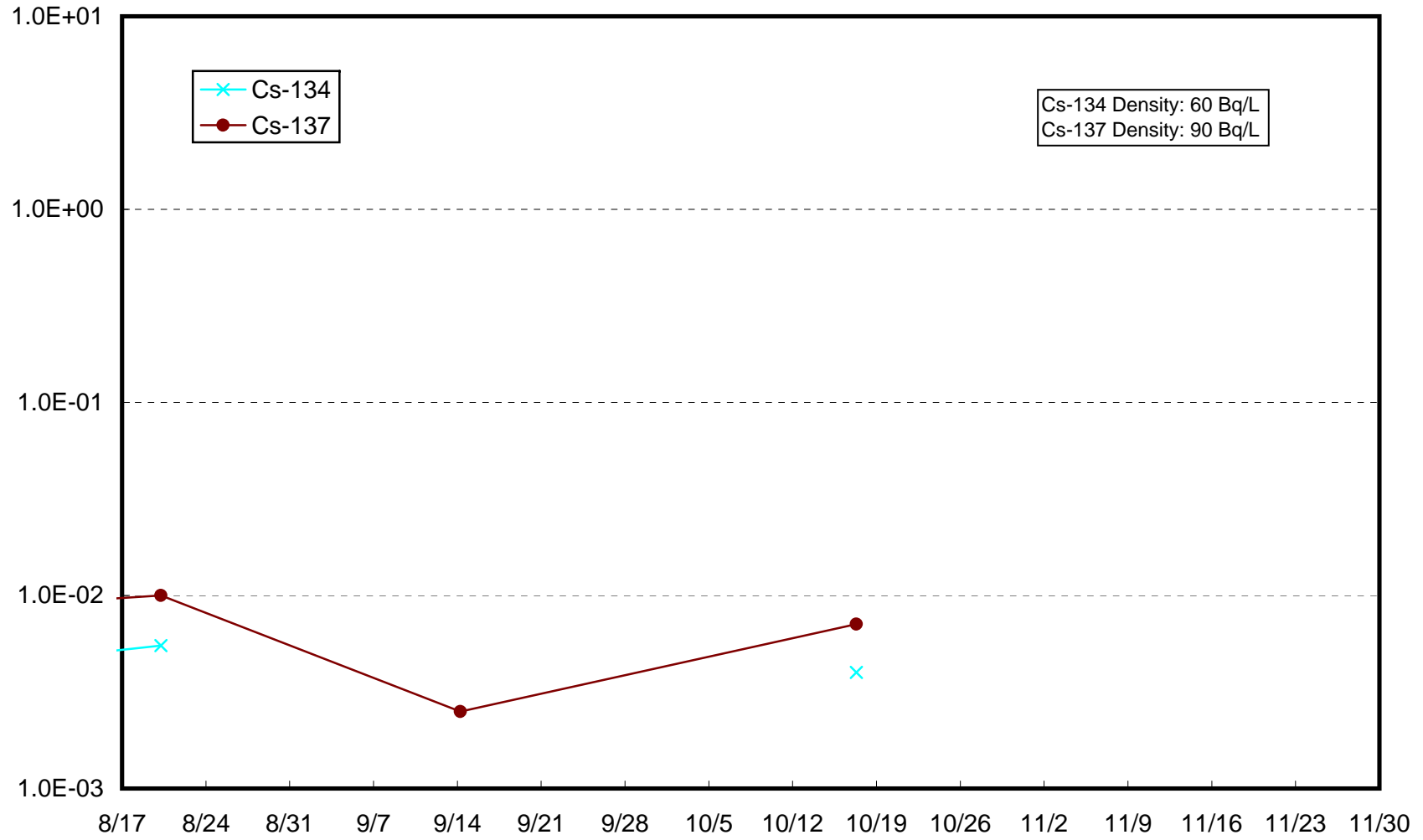
Radioactivity Density of the Seawater at 3km Offshore of Onahama Port (T-18) Lower Layer (Bq/L)



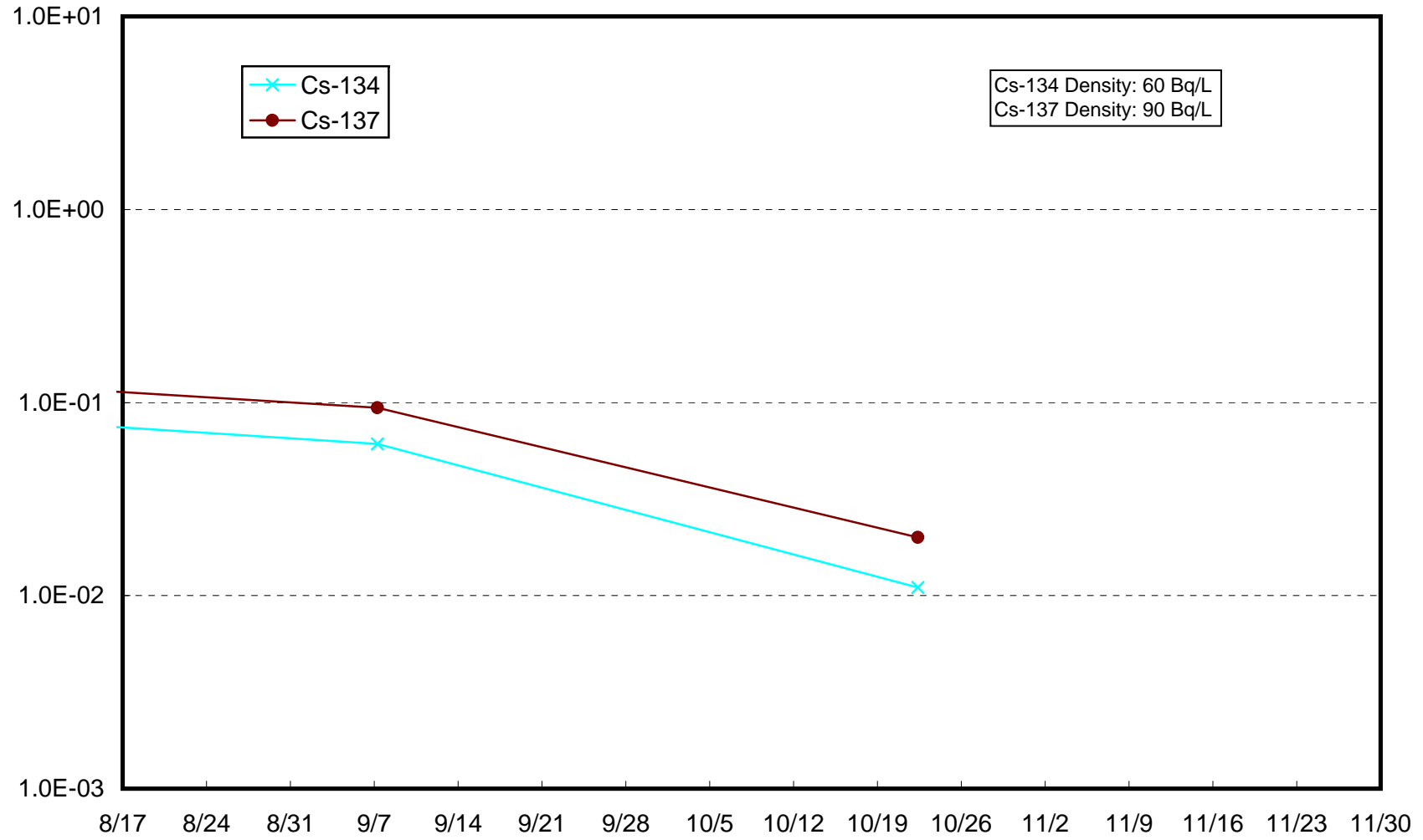
Radioactivity Density of the Seawater at 5km Offshore of Numanouchi (T-M10) Upper Layer (Bq/L)



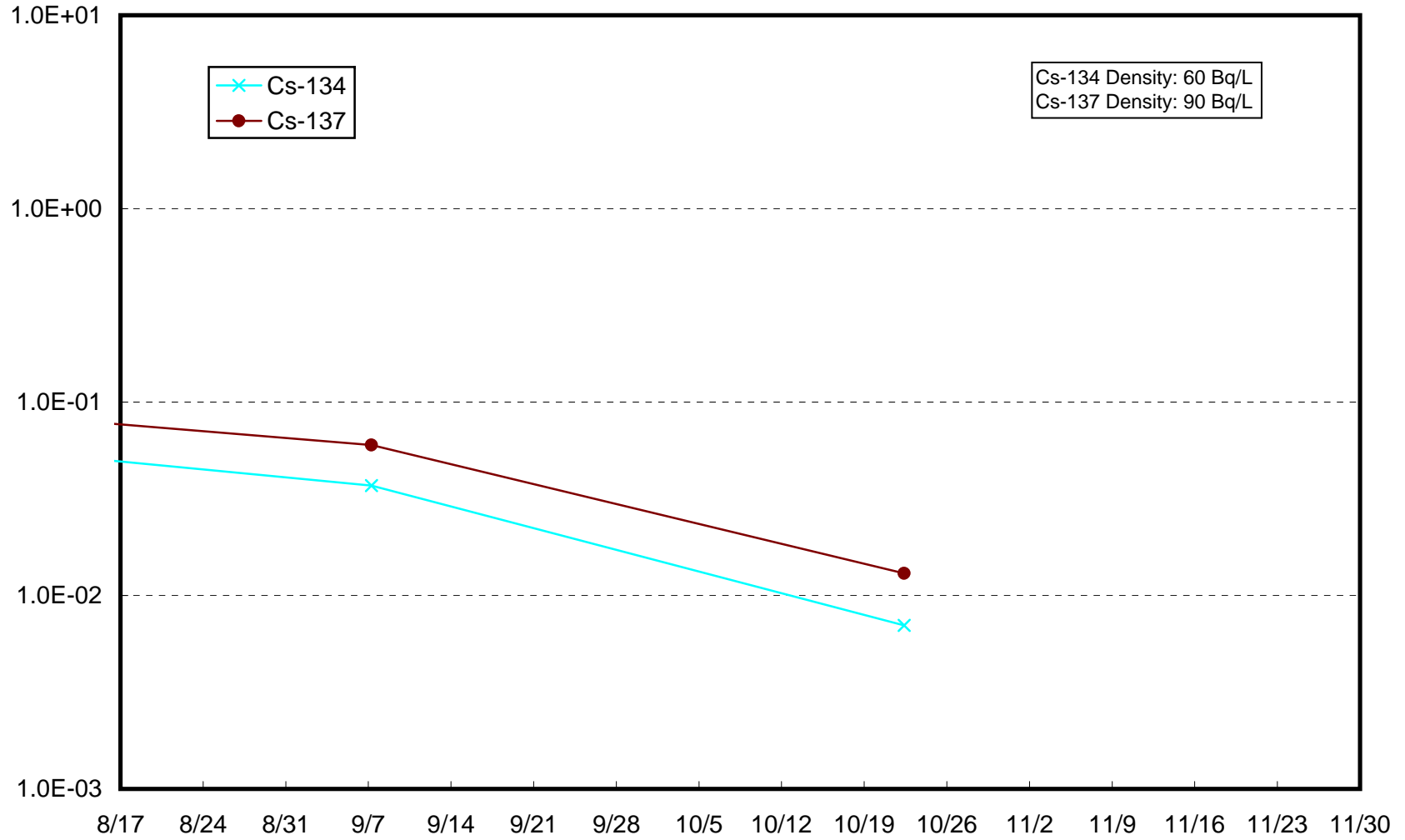
Radioactivity Density of the Seawater at 5km Offshore of Numanouchi (T-M10) Lower Layer (Bq/L)



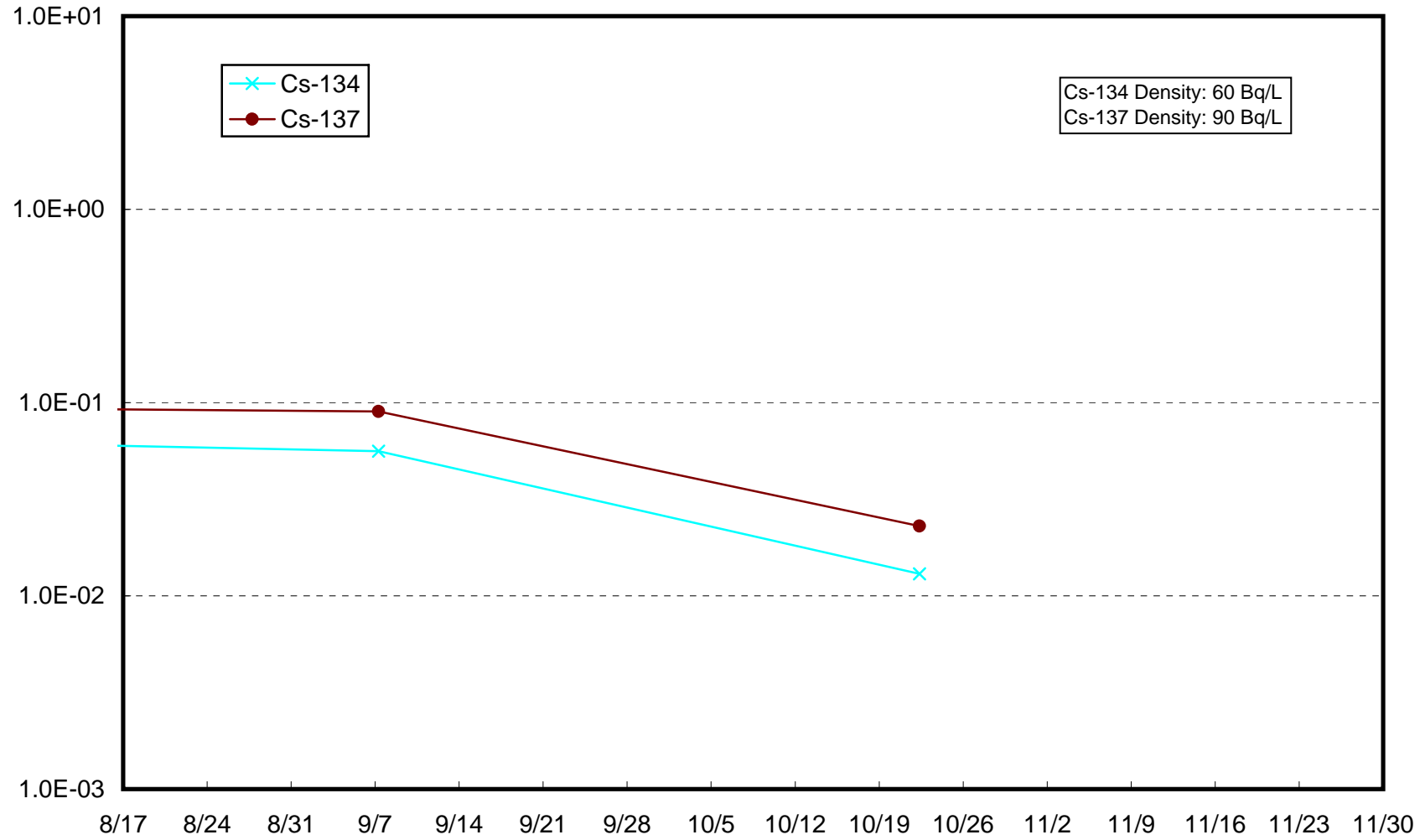
Radioactivity Density of the Seawater at 3km Offshore of North of Iwaki City(T-12) Upper Layer (Bq/L)



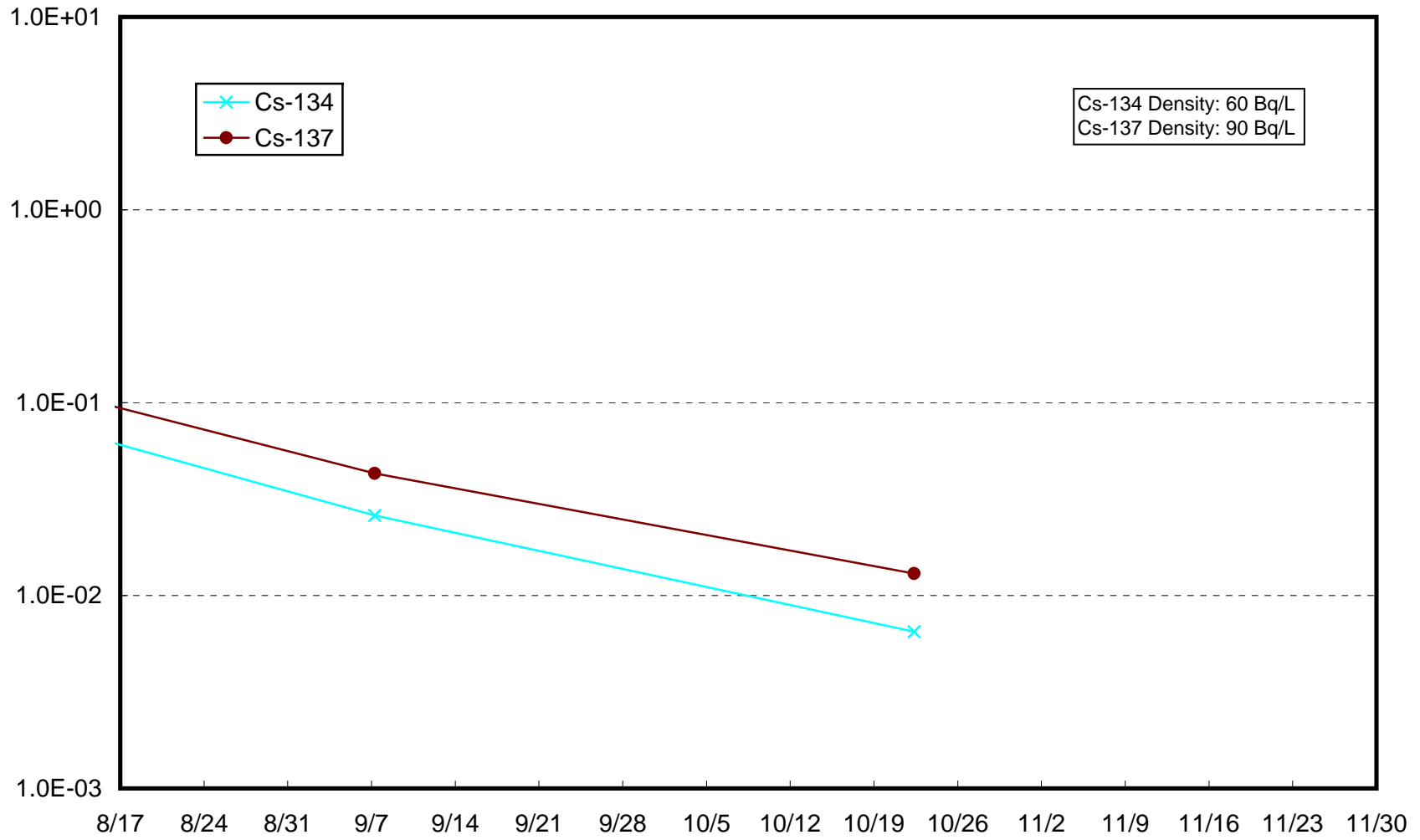
Radioactivity Density of the Seawater at 3km Offshore of North of Iwaki City(T-12) Lower Layer (Bq/L)



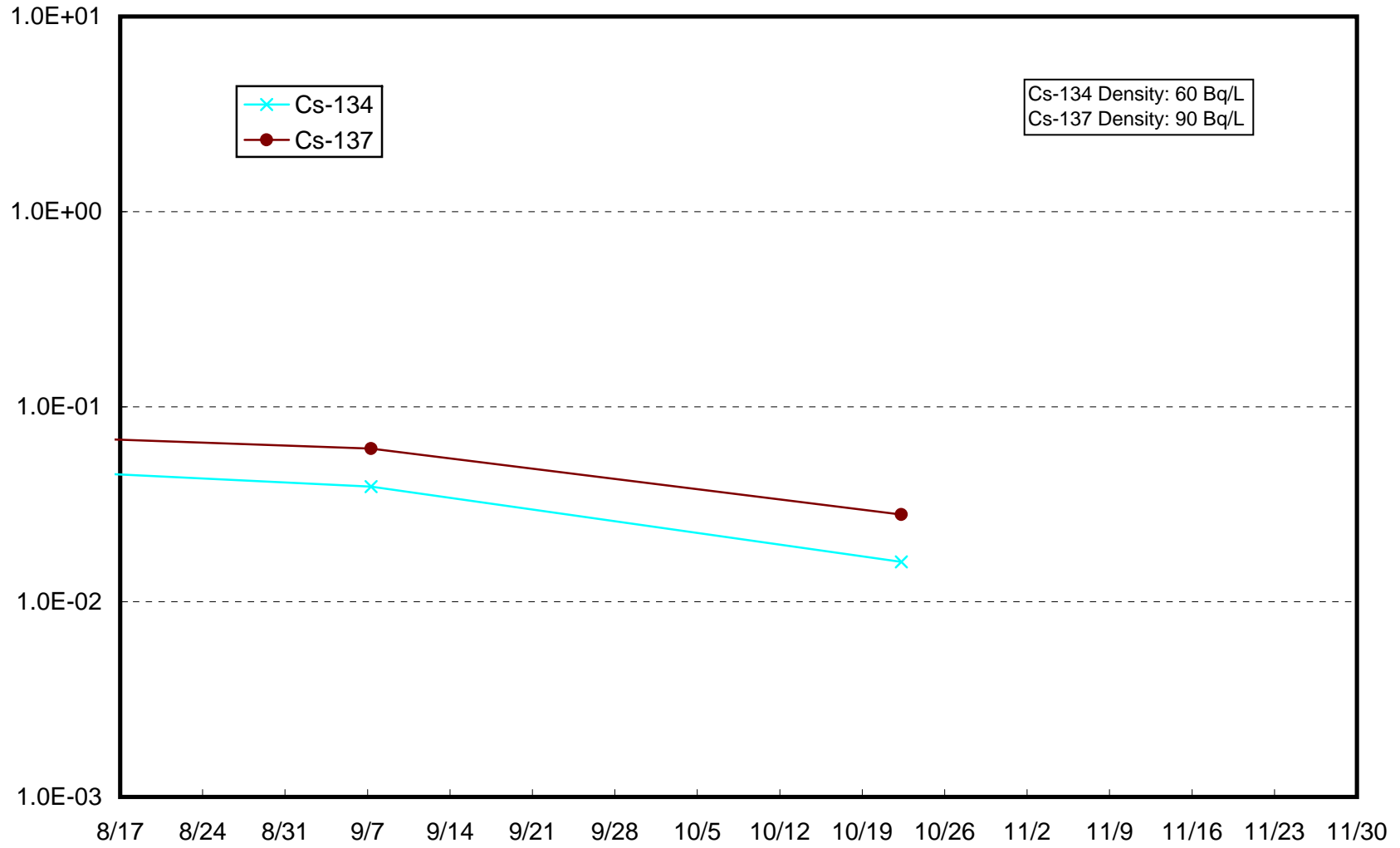
Radioactivity Density of the Seawater at 1km Offshore of Natsui River (T-17-1) Upper Layer (Bq/L)



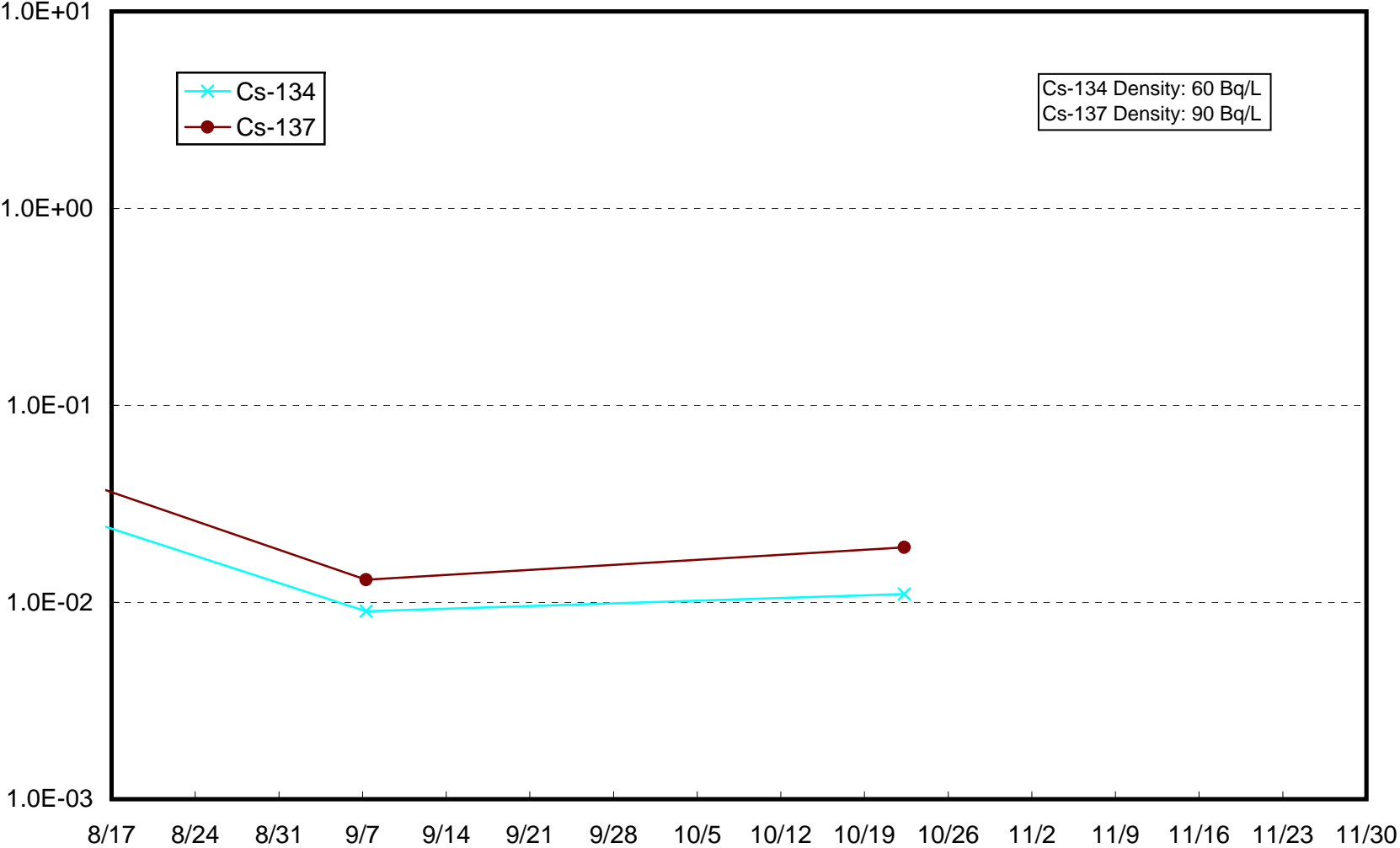
Radioactivity Density of the Seawater at 1km Offshore of Natsui River (T-17-1) Lower Layer (Bq/L)



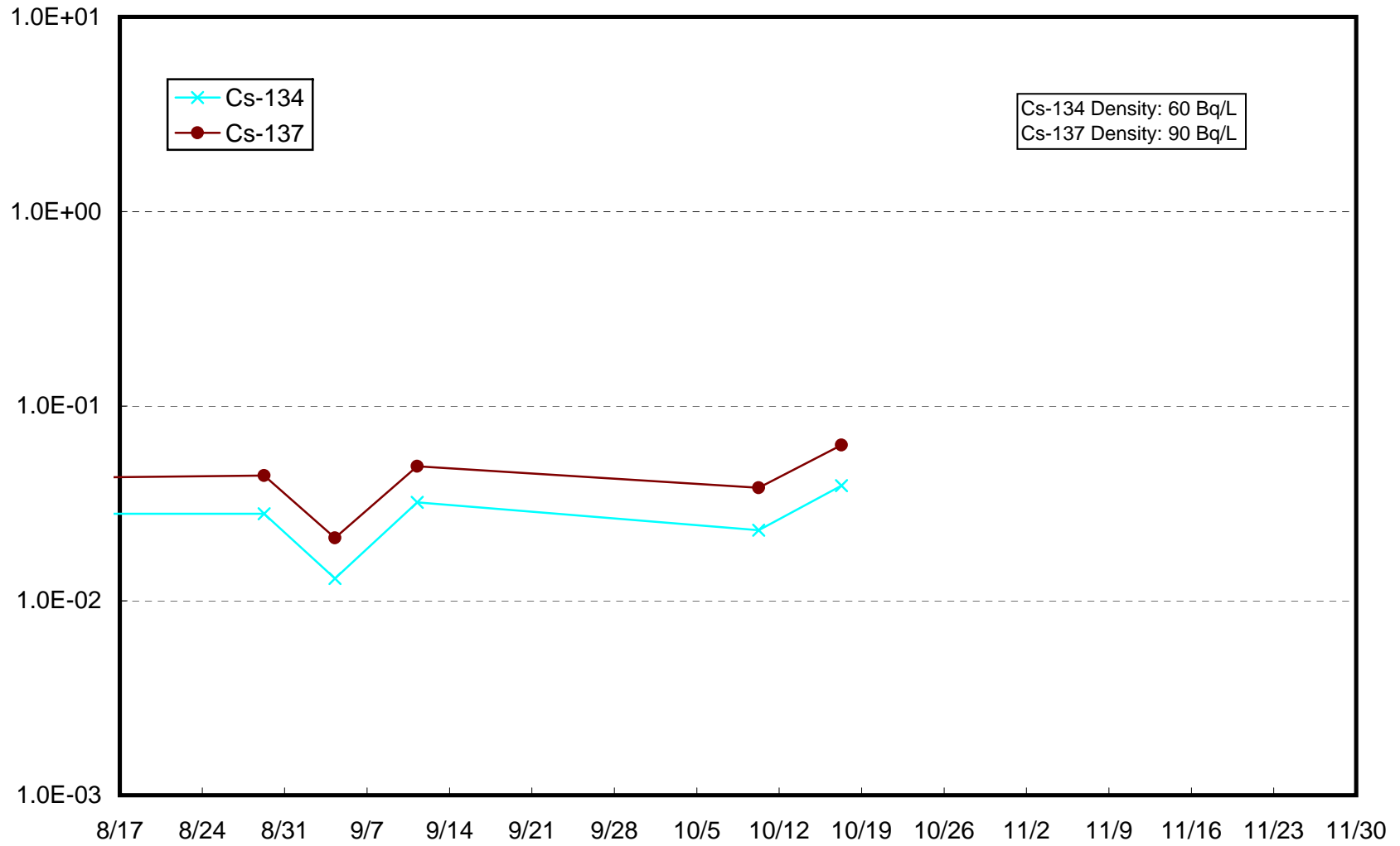
Radioactivity Density of the Seawater at 3km Offshore of Toyoma (T-20) Upper Layer (Bq/L)



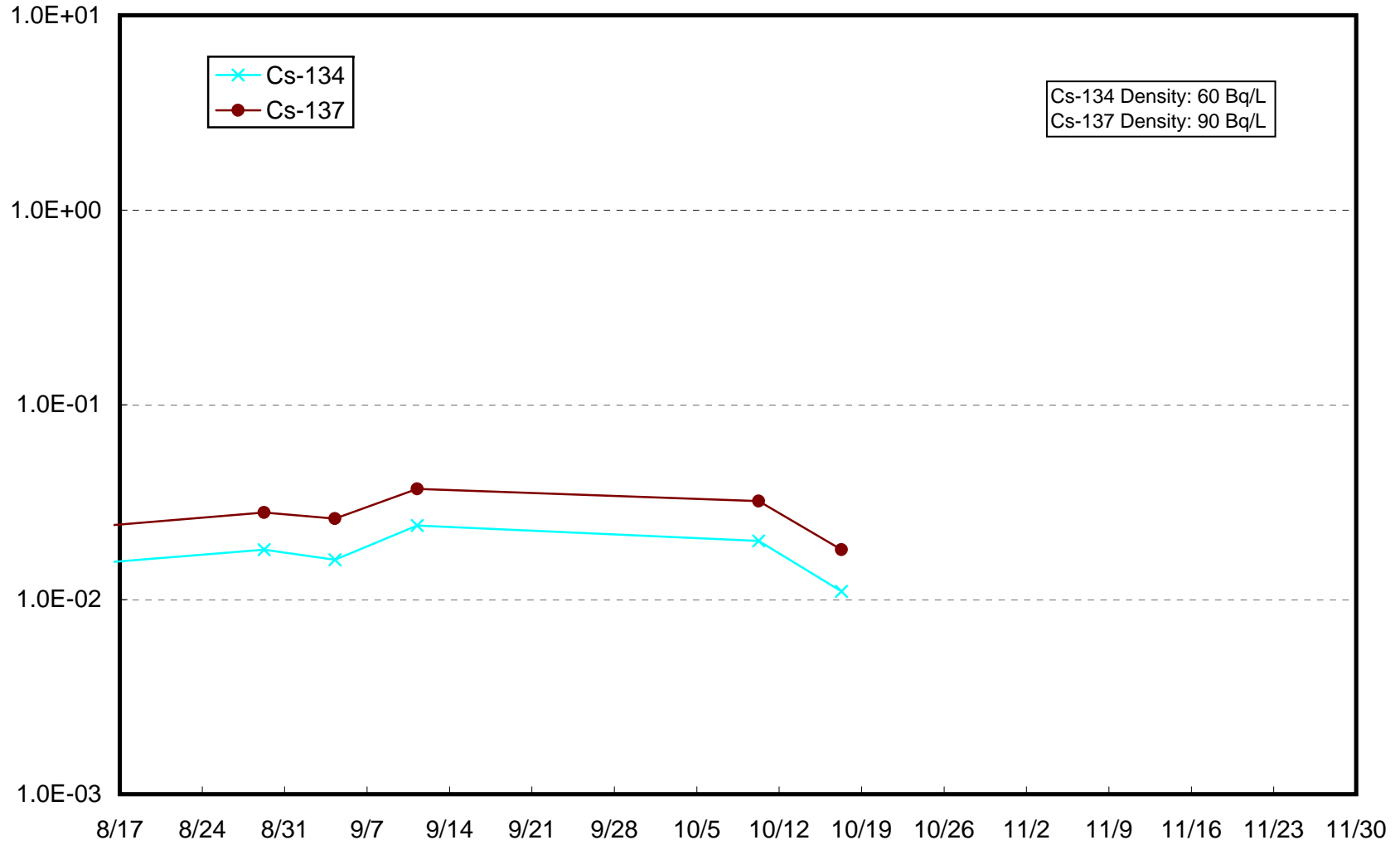
Radioactivity Density of the Seawater at 3km Offshore of Toyoma (T-20) Upper Layer (Bq/L)



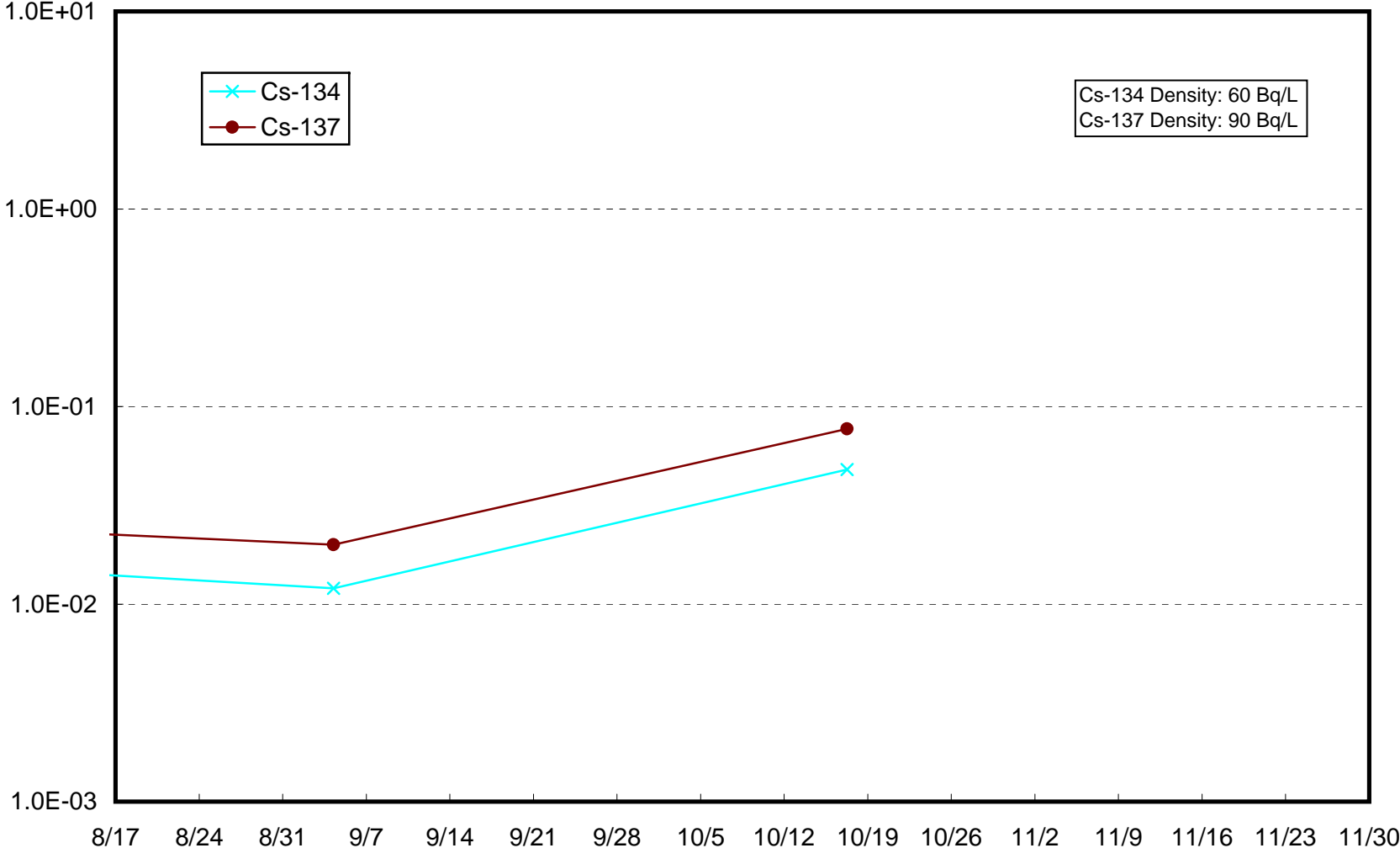
Radioactivity Density of the Seawater Around 1km Offshore of Ota River (T-S1) Upper Layer (Bq/L)



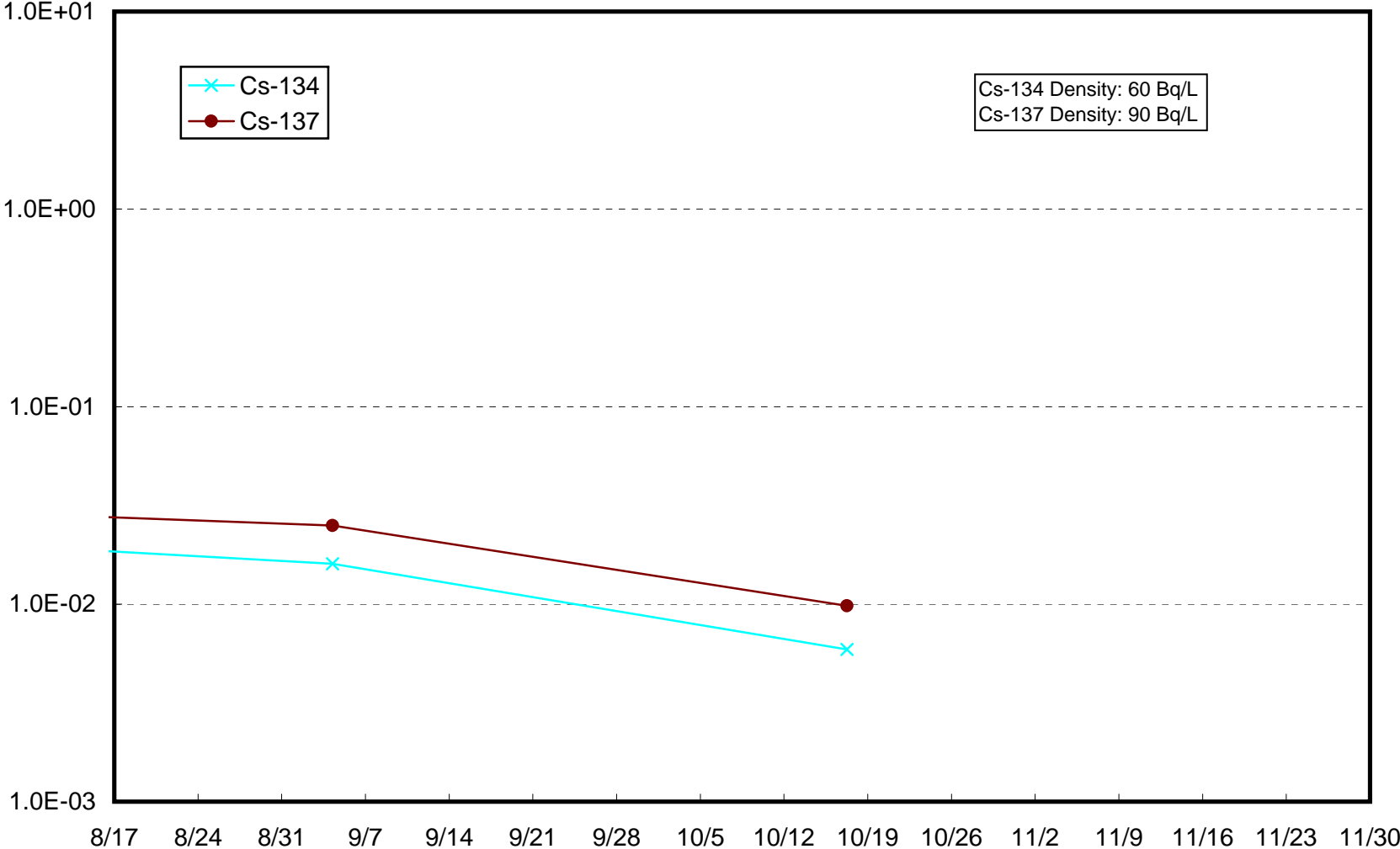
Radioactivity Density of the Seawater Around 1km Offshore of Ota River (T-S1) Lower Layer (Bq/L)



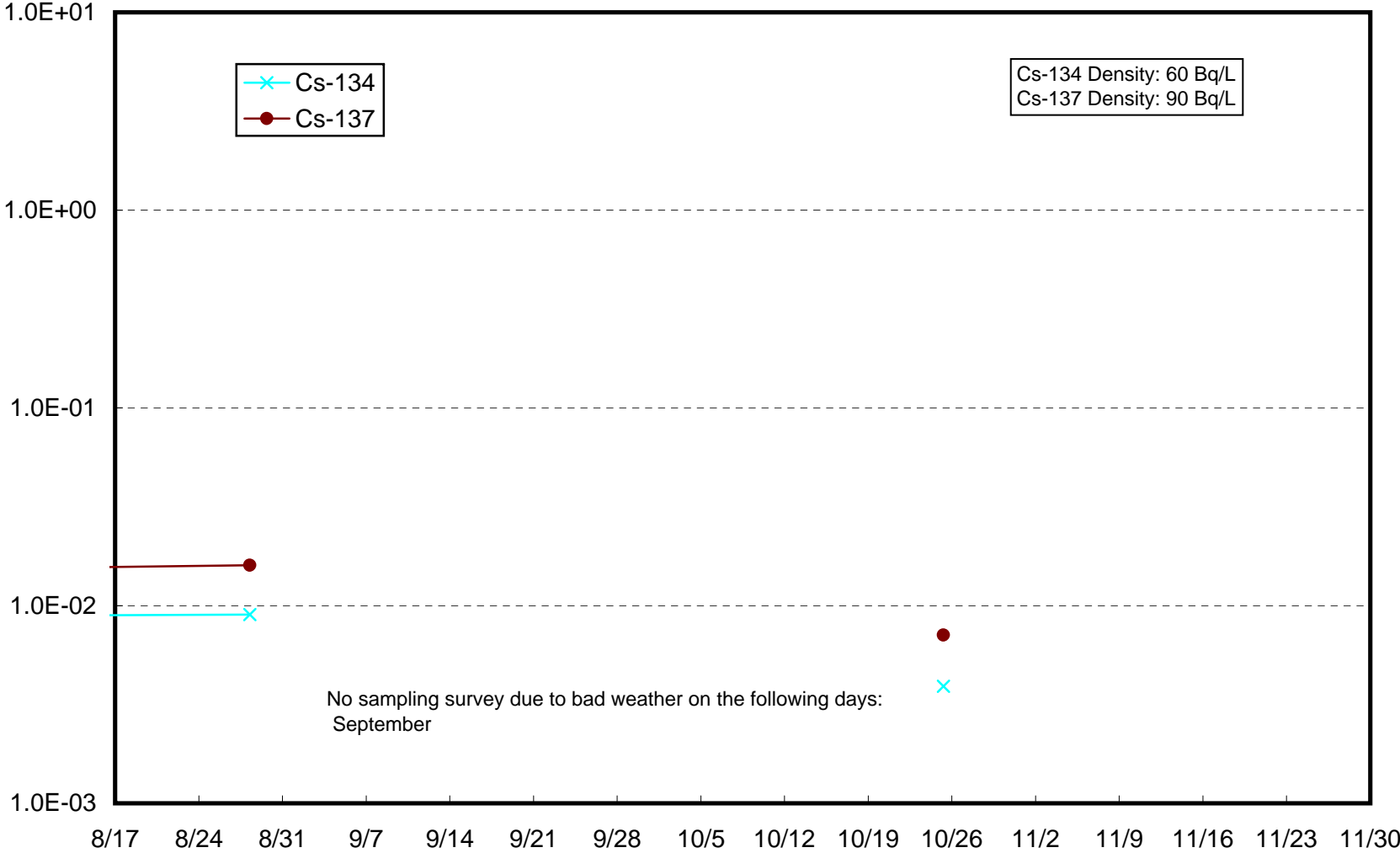
Radioactivity Density of the Seawater Around 3km Offshore of Odaka Ward (T-S2) Upper Layer (Bq/L)



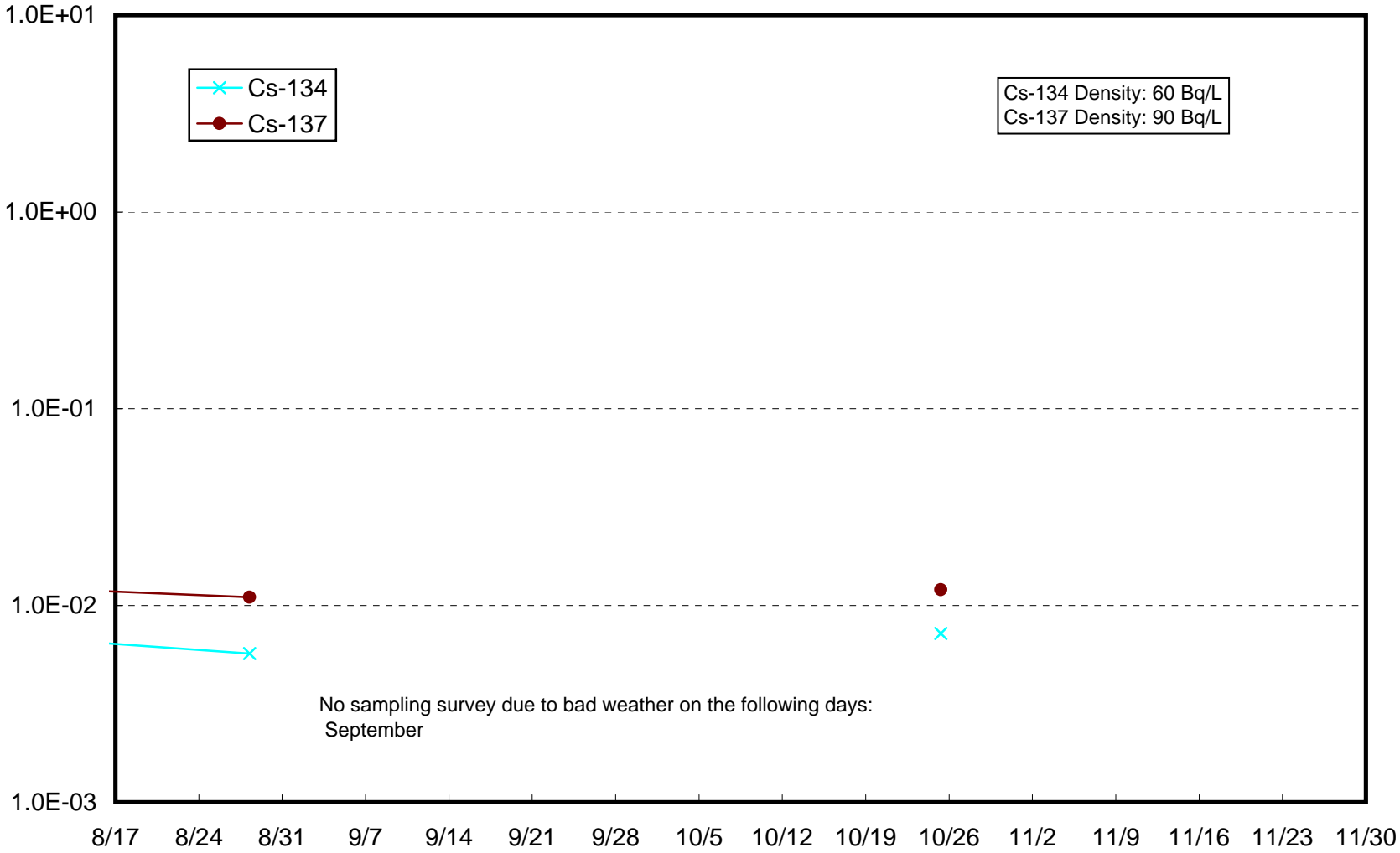
Radioactivity Density of the Seawater Around 3km Offshore of Odaka Ward (T-S2) Lower Layer (Bq/L)



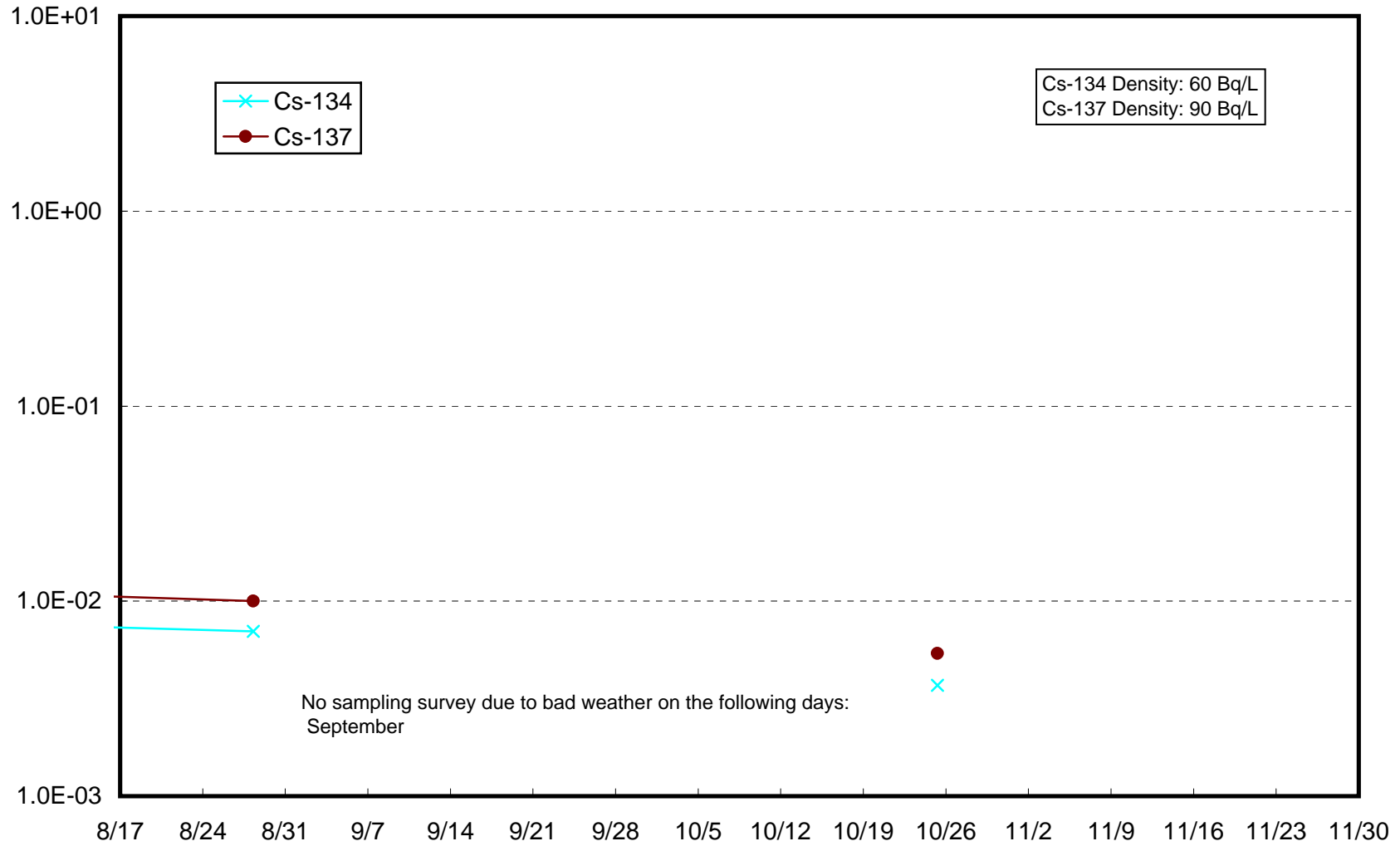
Radioactivity Density of the Seawater at 15km Offshore of Odaka Ward (T-B1) Upper Layer (Bq/L)



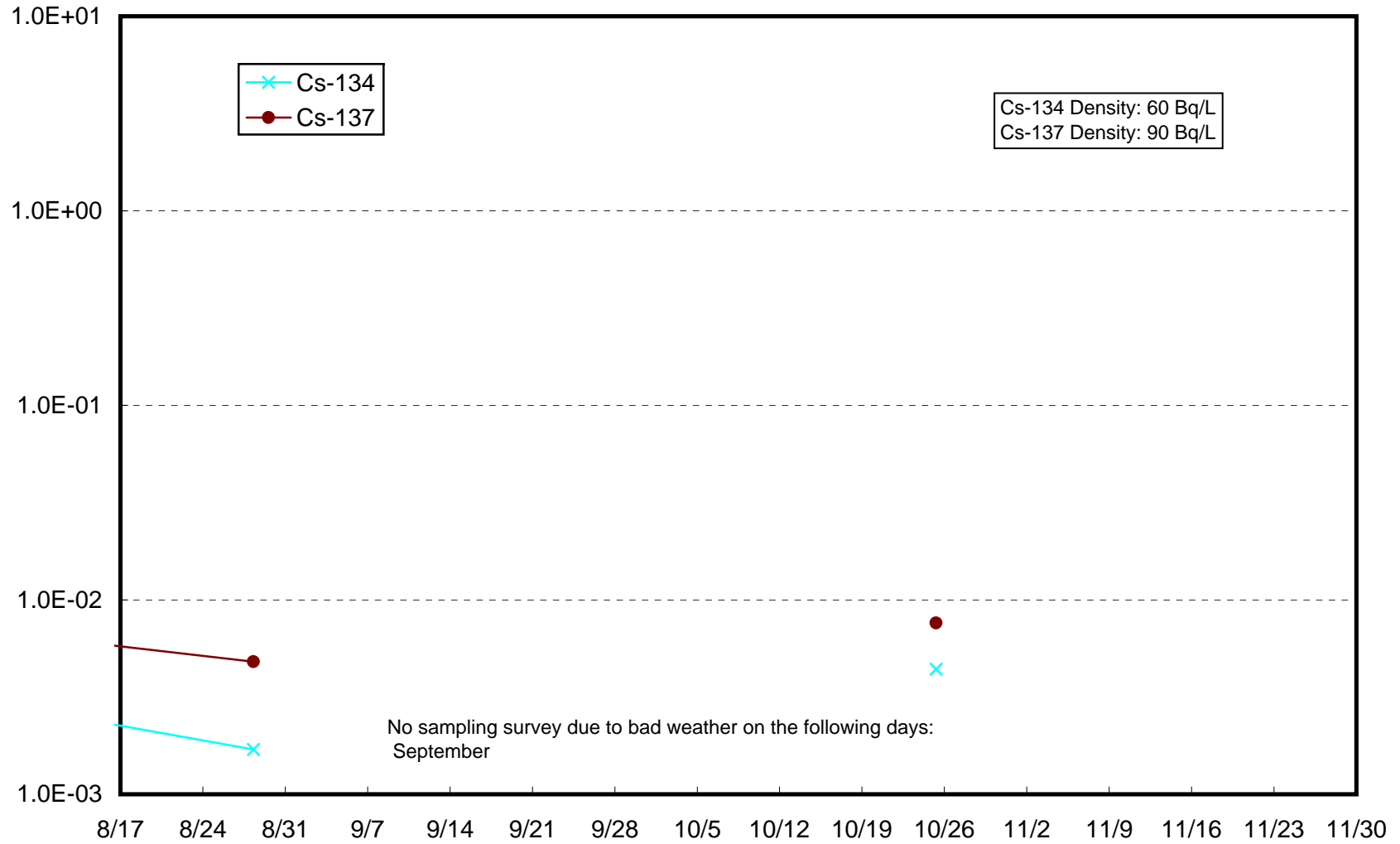
Radioactivity Density of the Seawater at 15km Offshore of Odaka Ward (T-B1) Lower Layer (Bq/L)



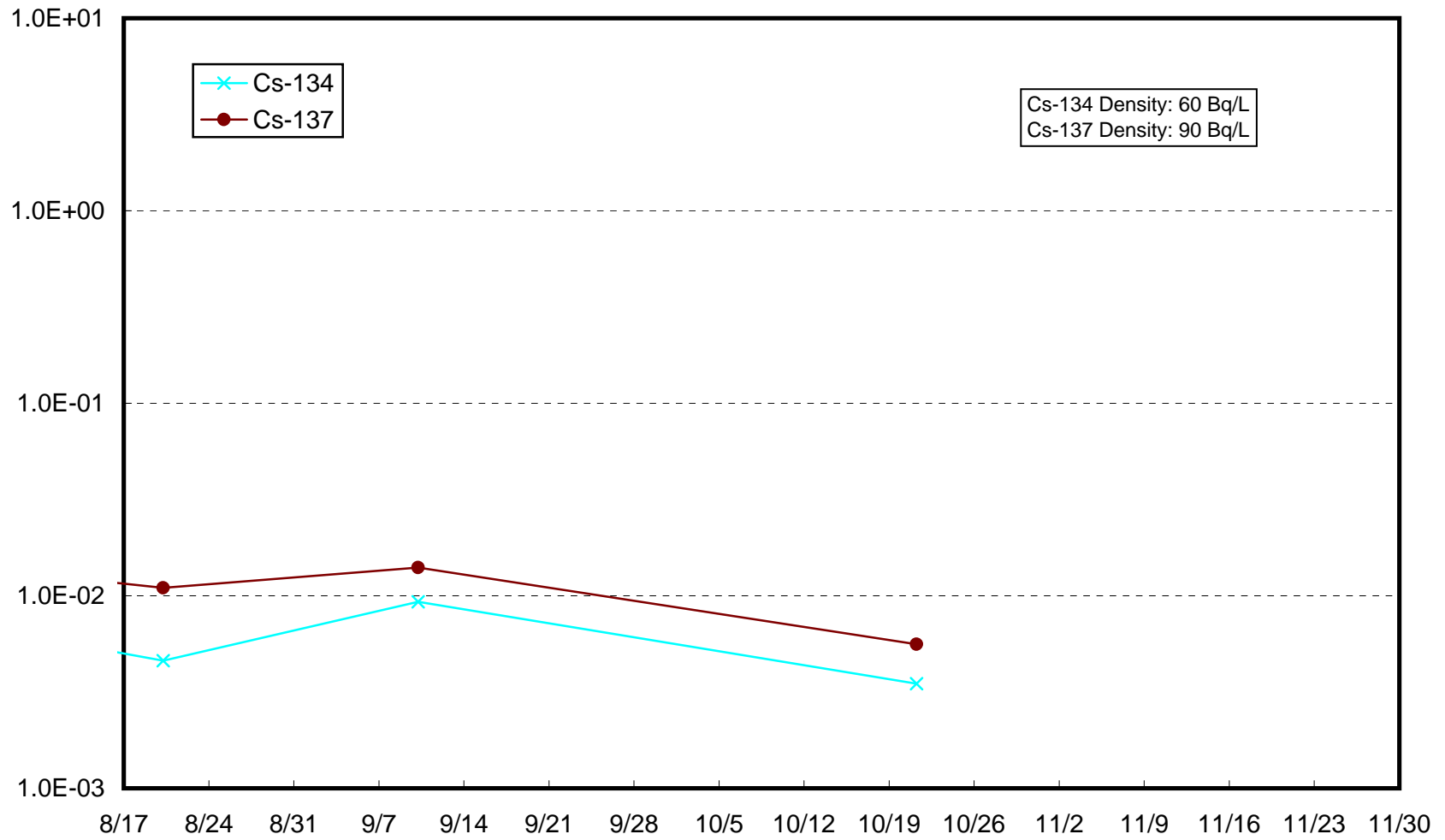
Radioactivity Density of the Seawater at 18km Offshore of Ukedo River (T-B2) Upper Layer (Bq/L)



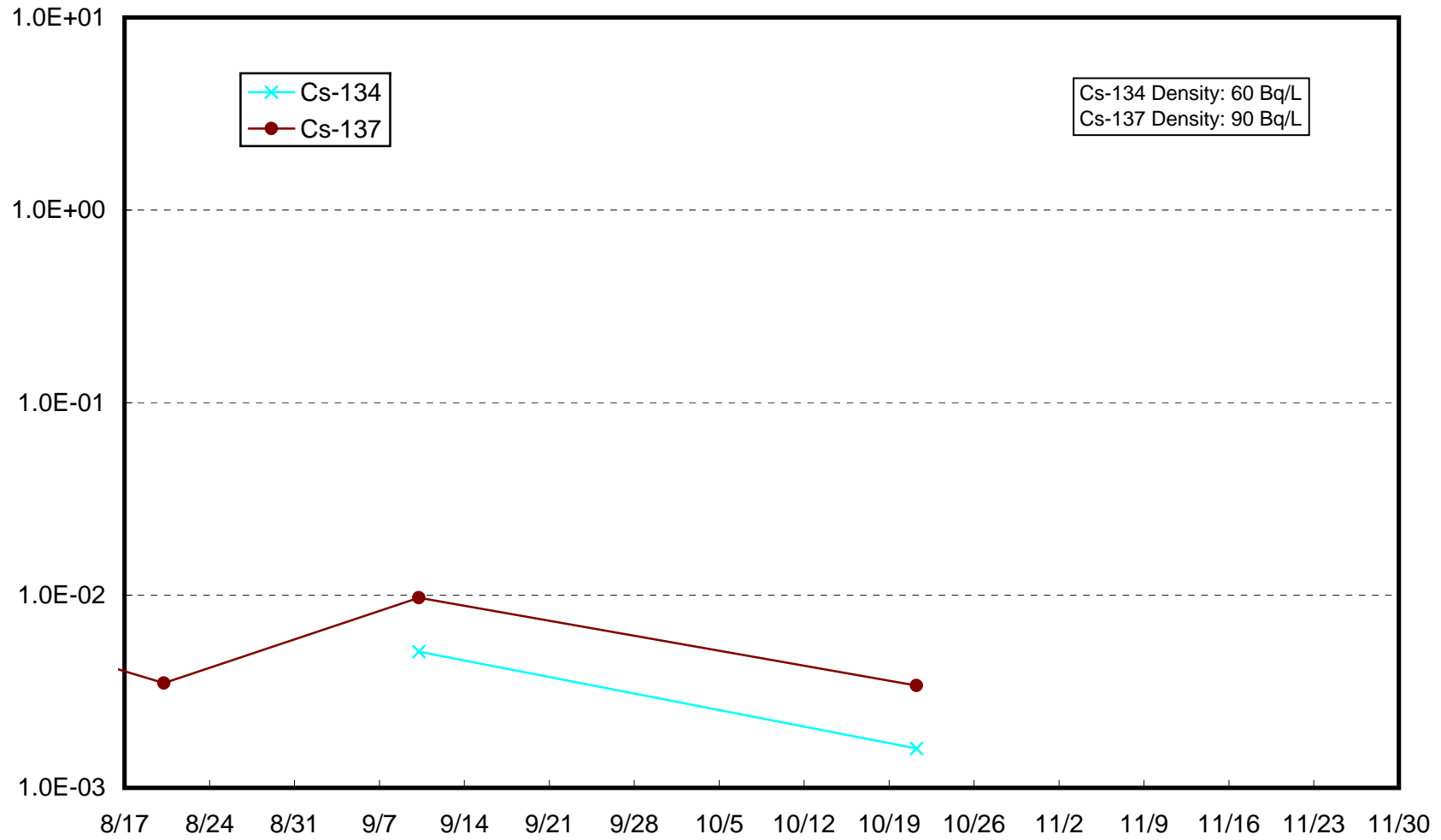
Radioactivity Density of the Seawater at 18km Offshore of Ukedo River (T-B2) Lower Layer (Bq/L)



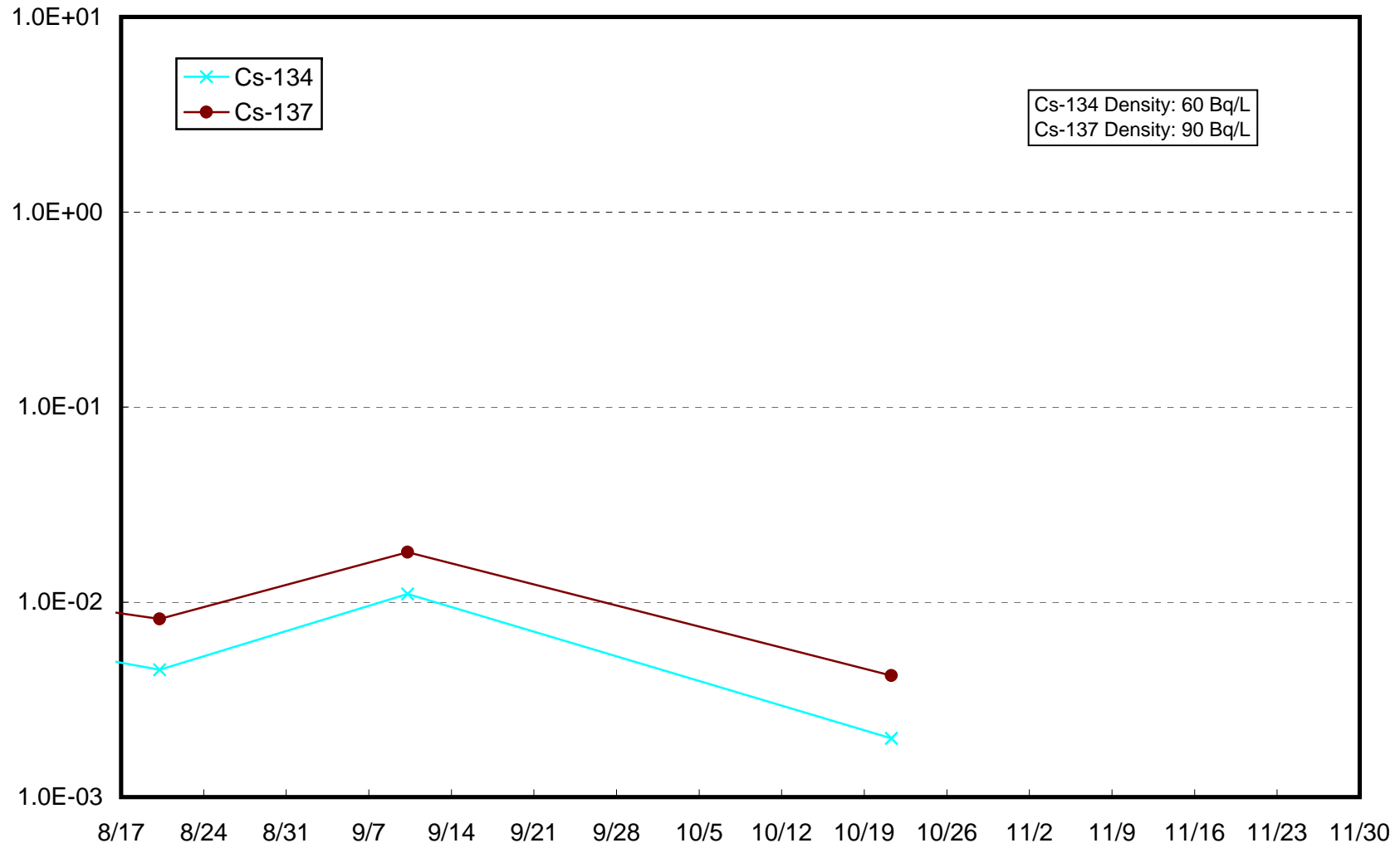
Radioactivity Density of the Seawater Around 10km Offshore of Fukushima Daiichi NPS (T-B3) Upper Layer (Bq/L)



Radioactivity Density of the Seawater Around 10km Offshore of Fukushima Daiichi NPS (T-B3) Lower Layer (Bq/L)



Radioactivity Density of the Seawater Around 10km Offshore of Fukushima Daini (T-B4) Upper Layer (Bq/L)



Radioactivity Density of the Seawater Around 10km Offshore of Fukushima Daini (T-B4) Lower Layer (Bq/L)

