

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

(Data summarized on December 9)

| 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) | | 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.) |
|----------------------------------|---|-------------------------|--|-------------------------|--|
| | Time of Sampling Dec 8, 2014 6:50 AM | | Time of Sampling Dec 8, 2014 5:50 AM | | |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | |
| I-131 (Approx. 8 days) | ND(0.70) | - | ND(0.58) | - | 40 |
| Cs-134 (Approx. 2 years) | ND(0.81) | - | ND(0.67) | - | 60 |
| Cs-137 (Approx. 30 years) | 0.77 | 0.01 | ND(0.64) | - | 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, which is provided in parentheses.

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

(Data summarized on December 9)

| 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) | | | | 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.) |
|-------------------------------|---|----------------------|---------------------------|----------------------|--|----------------------|---------------------------|----------------------|--|
| | Nov 10, 2014 5:30 AM | | | | Nov 10, 2014 5:35 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) | |
| Cs-134 (Approx. 2 years) | 0.10 | 0.00 | | | 0.056 | 0.00 | | | 60 |
| Cs-137 (Approx. 30 years) | 0.29 | 0.00 | | | 0.19 | 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.

* "ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

* Analyzed by: Tokyo Power Tecnology Ltd.

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

Reference

(Data summarized on December 9)

| Place of Sampling | 2F Around the North Discharge Channel (Around Unit 3-4 Discharge Channel) (Approx. 10km from 1F) | | | | 2F Around Iwasawa Shore (Approx. 7km South of Unit 1 & 2 Discharge Channel) (Approx. 16km from 1F) | | | | ② Density Limit Specified by the Reactor Regulation (Bq/L) |
|-------------------------------|--|----------------------|---------------------------|----------------------|--|----------------------|---------------------------|----------------------|--|
| Time of Sampling | Nov 11, 2014 9:40 AM | | Nov 11, 2014 4:05 PM | | Nov 11, 2014 4:05 PM | | Nov 11, 2014 4:05 PM | | (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.) |
| 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) | |
| Cs-134 (Approx. 2 years) | 0.023 | 0.00 | / | / | 0.012 | 0.00 | / | / | |
| Cs-137 (Approx. 30 years) | 0.080 | 0.00 | / | / | 0.052 | 0.00 | / | / | 90 |

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

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

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

* Analyzed by : Tokyo Power Technology Ltd.

Nuclides Analysis Result of Radioactive Materials in the Seawater <Coast Fukushima Daiichi NPS Within 20km Range>

Reference

Data summarized on December 9

| | | | | | |
|-------------------------------|--|----------------------|---------------------------|----------------------|--|
| Place of Sampling | South side of Ukedo Port (At 5.5km off shore of Unit 5 and Unit 6 north side) | | | | 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.) |
| Time of Sampling | Nov 11,2014 9:20 AM | | | | |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | |
| Cs-134 (Approx. 2 years) | 0.021 | 0.00 | | | 60 |
| Cs-137 (Approx. 30 years) | 0.062 | 0.00 | | | 90 |

- * The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.
- * In the case of 2 nuclides or more, the sum of scaling factors to density limits is compared to 1.
- * Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.
- * Analyzed by : Tokyo Power Technology Ltd.

Nuclides Analysis Result of Radioactive Materials in the Seawater<Offshore 1/3>

(Data summarized on December 9)

| Place of Sampling (Place No.) | *1 | | | | *2 | | | | *2 | | | | 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.) |
|-------------------------------|-----------------------------------|----------------------|-----------------------------------|----------------------|-----------------------------------|----------------------|-----------------------------------|----------------------|------------------------------------|----------------------|------------------------------------|----------------------|--|
| | 3km Offshore of Odaka Ward (T-14) | | 3km Offshore of Odaka Ward (T-14) | | 3km Offshore of Odaka Ward (T-14) | | 3km Offshore of Odaka Ward (T-14) | | 3km Offshore of Ukedo River (T-D1) | | 3km Offshore of Ukedo River (T-D1) | | |
| Time of Sampling | Upper Layer | | Lower Layer | | Upper Layer | | Lower Layer | | Upper Layer | | Lower Layer | | |
| | Oct 17, 2014 9:27 AM | | Oct 17, 2014 9:27 AM | | Oct 24, 2014 9:46 AM | | Oct 24, 2014 9:46 AM | | Oct 30, 2014 8:48 AM | | Oct 30, 2014 8:48 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) | 0.0022 | 0.00 | 0.0039 | 0.00 | 0.0024 | 0.00 | ND | - | 0.0031 | 0.00 | 0.0040 | 0.00 | 60 |
| Cs-137 (Approx. 30 years) | 0.0094 | 0.00 | 0.013 | 0.00 | 0.012 | 0.00 | 0.0057 | 0.00 | 0.012 | 0.00 | 0.015 | 0.00 | 90 |

| Place of Sampling (Place No.) | *2 | | | | *2 | | | | *2 | | | | 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.) |
|-------------------------------|------------------------------------|----------------------|------------------------------------|----------------------|--|----------------------|--|----------------------|--|----------------------|--|----------------------|--|
| | 3km Offshore of Ukedo River (T-D1) | | 3km Offshore of Ukedo River (T-D1) | | 3km Offshore of Fukushima Daiichi NPS (T-D5) | | 3km Offshore of Fukushima Daiichi NPS (T-D5) | | 3km Offshore of Fukushima Daiichi NPS (T-D5) | | 3km Offshore of Fukushima Daiichi NPS (T-D5) | | |
| Time of Sampling | Upper Layer | | Lower Layer | | Upper Layer | | Lower Layer | | Upper Layer | | Lower Layer | | |
| | Nov 11, 2014 9:40 AM | | Nov 11, 2014 9:40 AM | | Nov 4, 2014 10:02 AM | | Nov 4, 2014 10:02 AM | | Nov 11, 2014 10:10 AM | | Nov 11, 2014 10:10 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) | 0.0091 | 0.00 | 0.0032 | 0.00 | 0.0051 | 0.00 | 0.0052 | 0.00 | 0.0083 | 0.00 | 0.0033 | 0.00 | 60 |
| Cs-137 (Approx. 30 years) | 0.031 | 0.00 | 0.012 | 0.00 | 0.020 | 0.00 | 0.023 | 0.00 | 0.027 | 0.00 | 0.010 | 0.00 | 90 |

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

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

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

Cs-134: Approx.0.0013Bq/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.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

* Analyzed by : *1 THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD., *2 Tokyo Power Technology Ltd.

Nuclides Analysis Result of Radioactive Materials in the Seawater <Offshore 2/3>

(Data summarized on December 9)

| Place of Sampling (Place No.) | *2 | | | | *2 | | | | *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.) |
|----------------------------------|--|----------------------------|--|----------------------------|--|----------------------------|--|----------------------------|------------------------------|----------------------------|------------------------------|----------------------------|--|
| | 3km Offshore of Fukushima Daini NPS (T-D9) | | 3km Offshore of Fukushima Daini NPS (T-D9) | | 15km Offshore of Fukushima Daiichi NPS (T-5) | | 15km Offshore of Fukushima Daiichi NPS (T-5) | | | | | | |
| | Upper Layer | Lower Layer | Upper Layer | Lower Layer | Upper Layer | Lower Layer | Upper Layer | Lower Layer | Upper Layer | Lower Layer | Upper Layer | Lower Layer | |
| Time of Sampling | Nov 4, 2014 9:34 AM | | Nov 4, 2014 9:34 AM | | Nov 12, 2014 8:38 AM | | Nov 12, 2014 8:38 AM | | Oct 25, 2014 8:32 AM | | Oct 25, 2014 8:32 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) | 0.0032 | 0.00 | 0.0060 | 0.00 | 0.0020 | 0.00 | 0.0032 | 0.00 | 0.0019 | 0.00 | ND | - | 60 |
| Cs-137 (Approx. 30 years) | 0.011 | 0.00 | 0.018 | 0.00 | 0.0064 | 0.00 | 0.0091 | 0.00 | 0.0072 | 0.00 | 0.0052 | 0.00 | 90 |

| Place of Sampling (Place No.) | *1 | | | | *1 | | | | *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.) |
|----------------------------------|--|----------------------------|--|----------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|--|
| | 15km Offshore of Fukushima Daiichi NPS (T-5) | | 15km Offshore of Fukushima Daiichi NPS (T-5) | | 3km Offshore of Iwasawa Shore (T-11) | | 3km Offshore of Iwasawa Shore (T-11) | | 3km Offshore of Iwasawa Shore (T-11) | | 3km Offshore of Iwasawa Shore (T-11) | | |
| | Upper Layer | Lower Layer | Upper Layer | Lower Layer | Upper Layer | Lower Layer | Upper Layer | Lower Layer | Upper Layer | Lower Layer | Upper Layer | Lower Layer | |
| Time of Sampling | Oct 30, 2014 7:58 AM | | Oct 30, 2014 7:58 AM | | Oct 25, 2014 7:15 AM | | Oct 25, 2014 7:15 AM | | Oct 28, 2014 7:19 AM | | Oct 28, 2014 7:19 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) | ND | - | ND | - | 0.0063 | 0.00 | 0.012 | 0.00 | 0.0080 | 0.00 | 0.0078 | 0.00 | 60 |
| Cs-137 (Approx. 30 years) | 0.0027 | 0.00 | 0.0037 | 0.00 | 0.021 | 0.00 | 0.043 | 0.00 | 0.024 | 0.00 | 0.027 | 0.00 | 90 |

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

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

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

Cs-134: Approx.0.0013Bq/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.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

* Analyzed by : *1 THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD., *2 Tokyo Power Technology Ltd.

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

(Data summarized on December 9)

| Place of Sampling (Place No.) | 15km Offshore of Odaka ward (T-B1) | | | | 18km Offshore of Ukledo river (T-B2) | | | | 10km Offshore of Fukushima Daiichi NPS (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 29, 2014 6:40 AM | | Oct 29, 2014 6:40 AM | | Oct 29, 2014 6:00 AM | | Oct 29, 2014 6:00 AM | | Oct 27, 2014 5:21 AM | | Oct 27, 2014 5:21 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) | ND | - | ND | - | ND | - | 0.0017 | 0.00 | 0.0019 | 0.00 | ND | - | 60 |
| Cs-137 (Approx. 30 years) | 0.0048 | 0.00 | 0.0050 | 0.00 | 0.0053 | 0.00 | 0.0064 | 0.00 | 0.0080 | 0.00 | 0.0051 | 0.00 | 90 |

| Place of Sampling (Place No.) | 10km Offshore of Fukushima Daini (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 27, 2014 6:19 AM | | Oct 27, 2014 6:19 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) | 0.0033 | 0.00 | ND | - | / | / | / | / | / | / | / | / | 60 |
| Cs-137 (Approx. 30 years) | 0.0086 | 0.00 | 0.0058 | 0.00 | / | / | / | / | / | / | / | / | 90 |

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

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

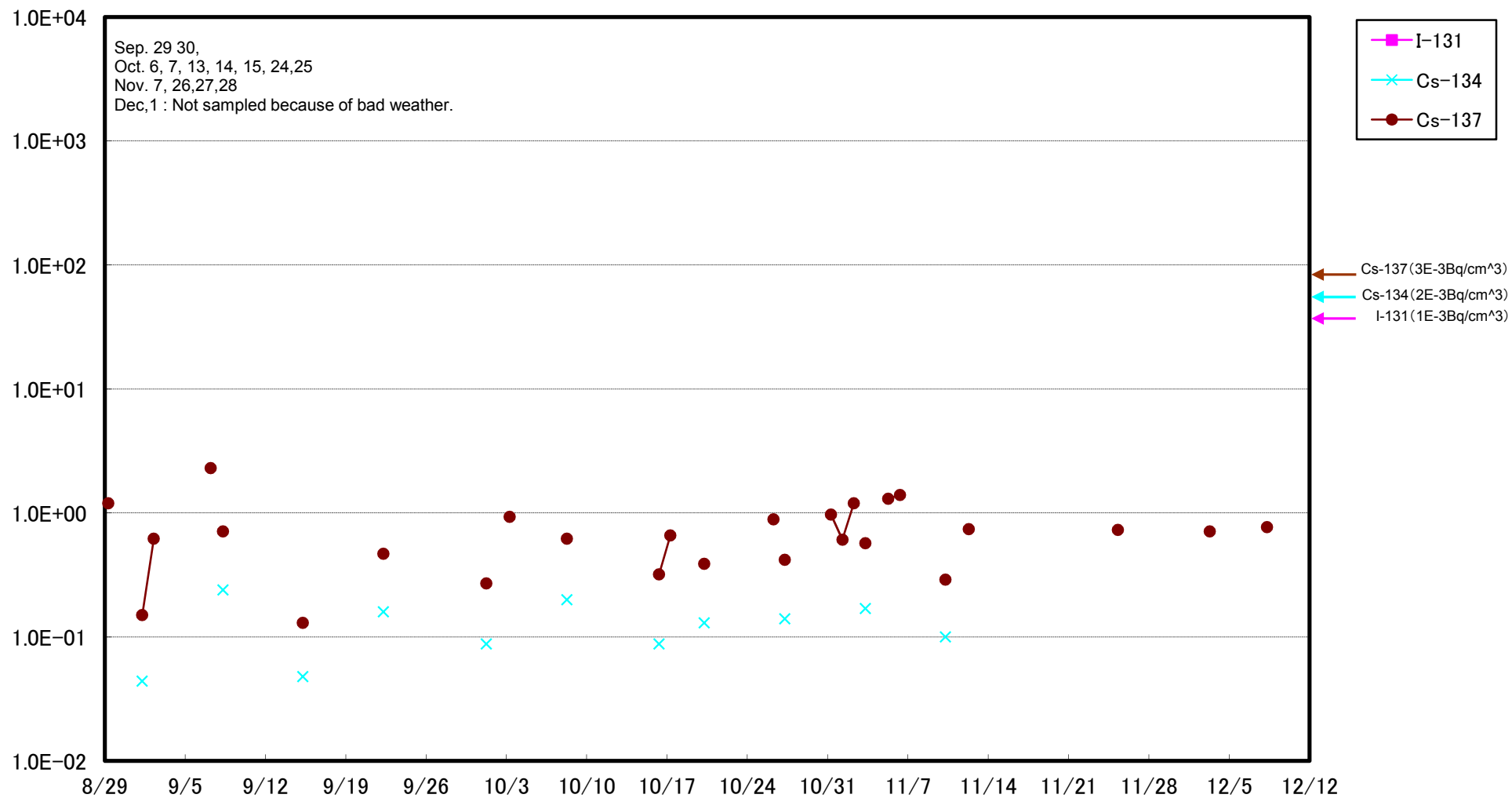
* "ND" indicates that the measurement result is below the detection limit.

Cs-134: Approx.0.00148Bq/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.

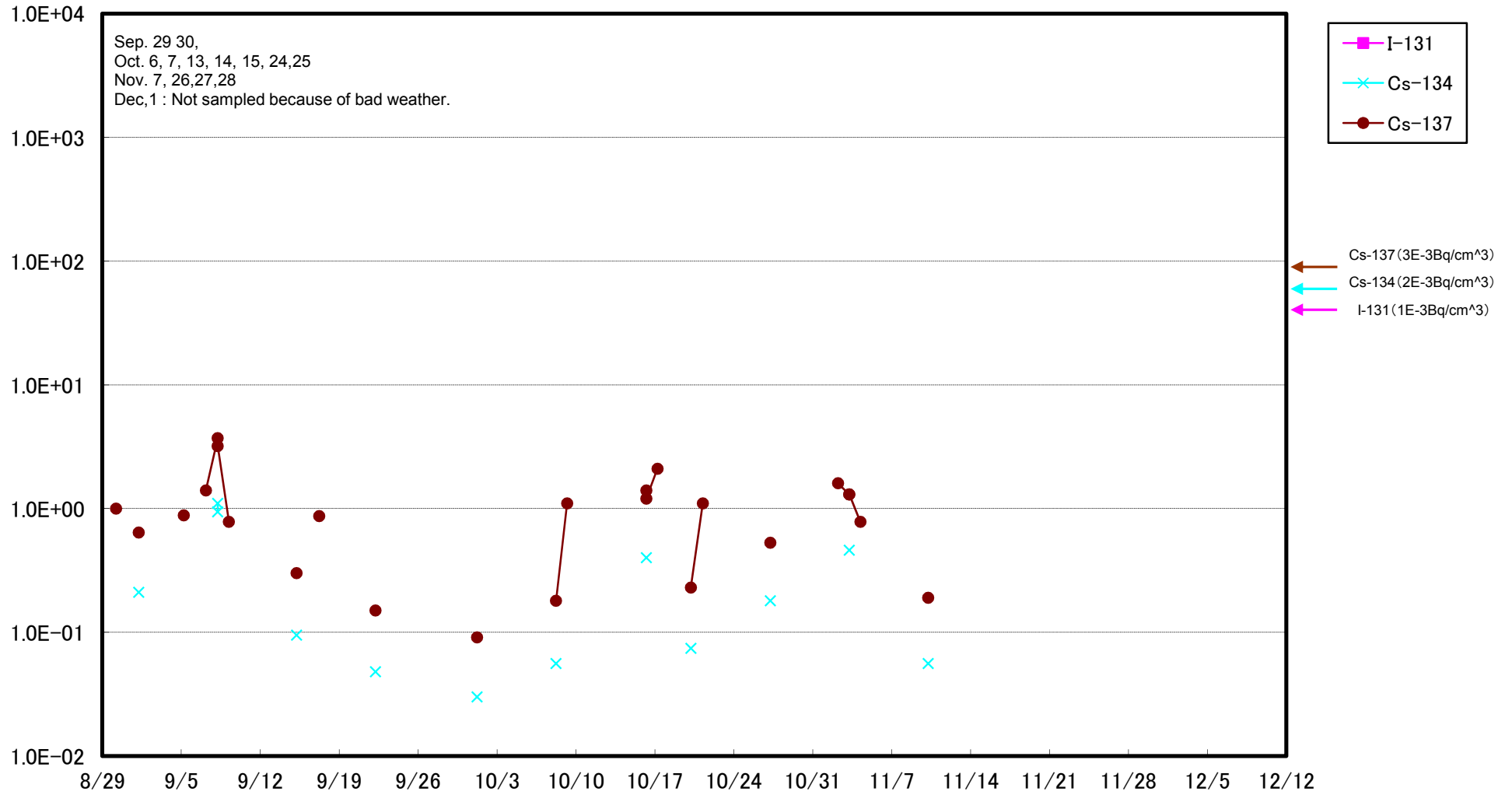
* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

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

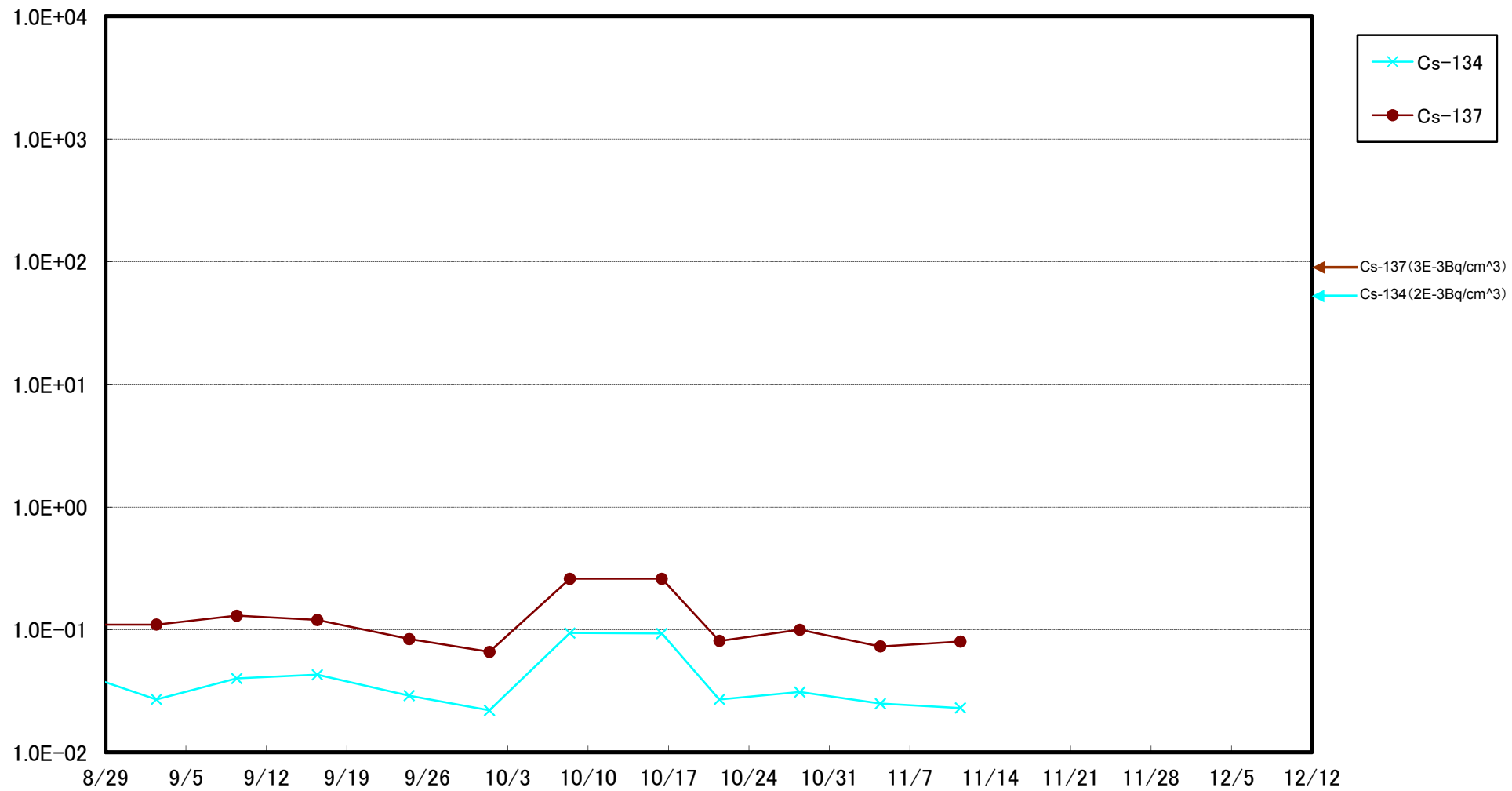
Radioactivity Density of the Seawater at 1F Units 5-6 North Discharge Channel (Bq/L)



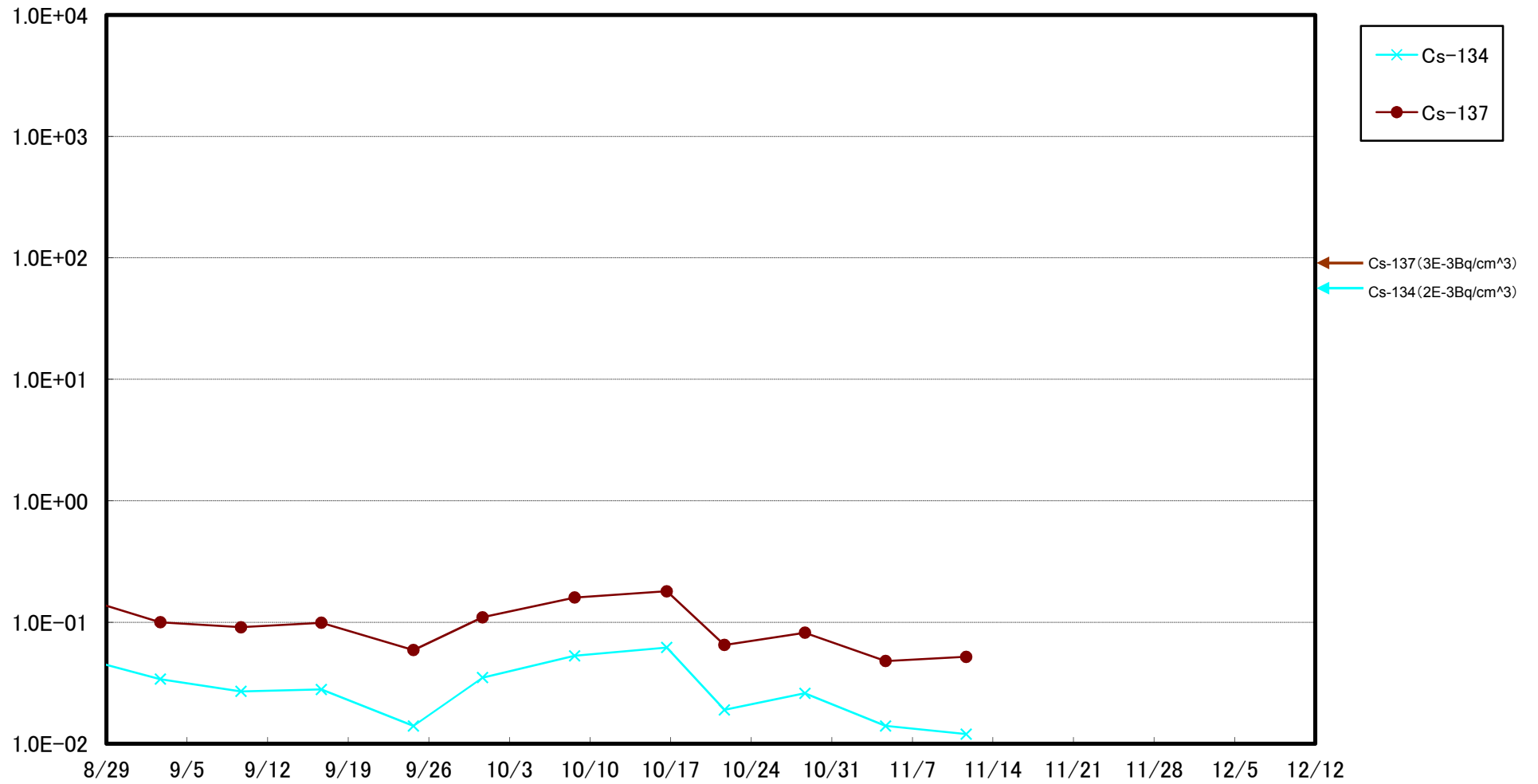
Radioactivity Density of the Seawater at 1F South Discharge Channel (Bq/L)



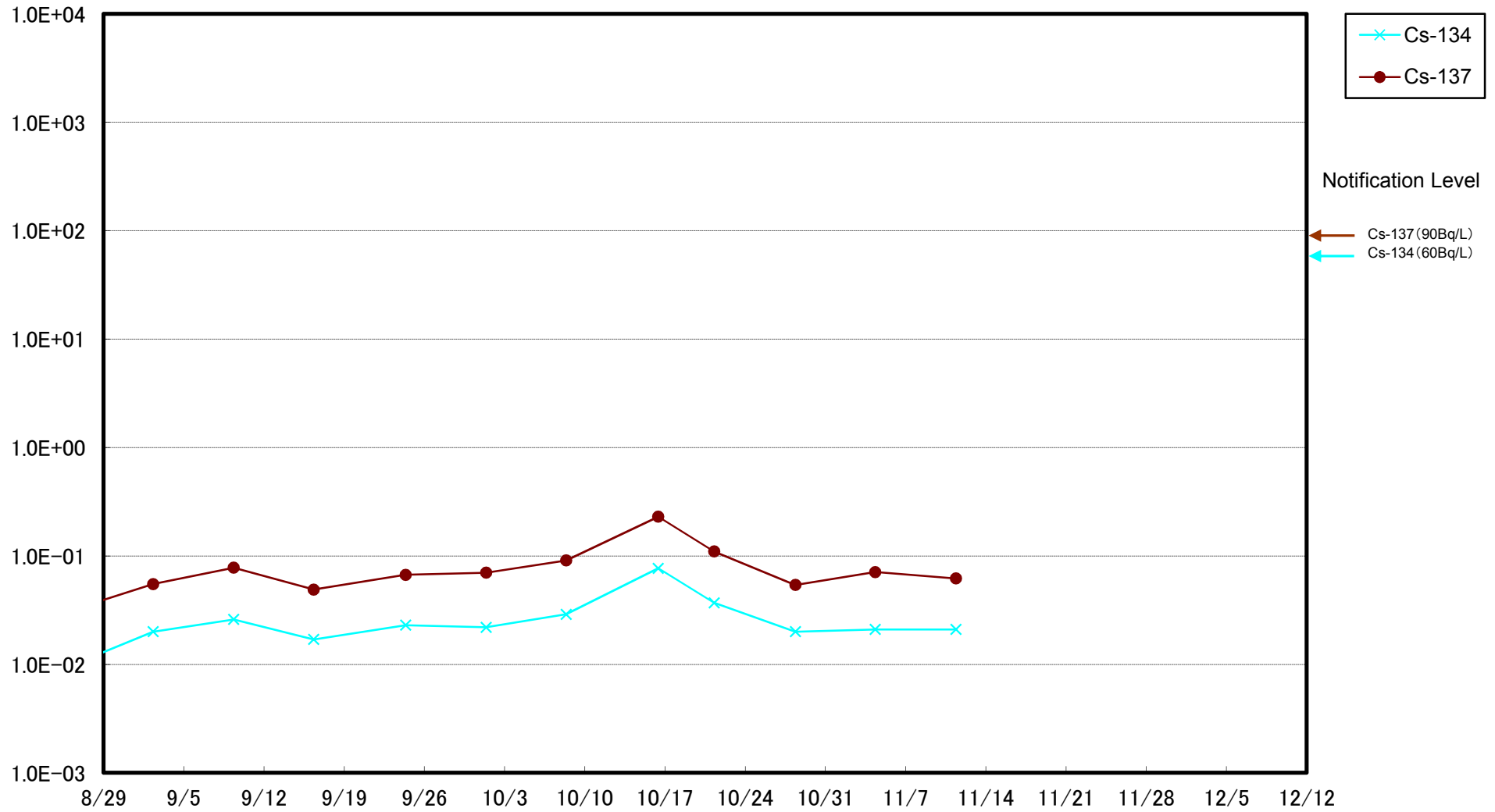
Radioactivity Density of the Seawater at 2F North Discharge Channel (Bq/L)



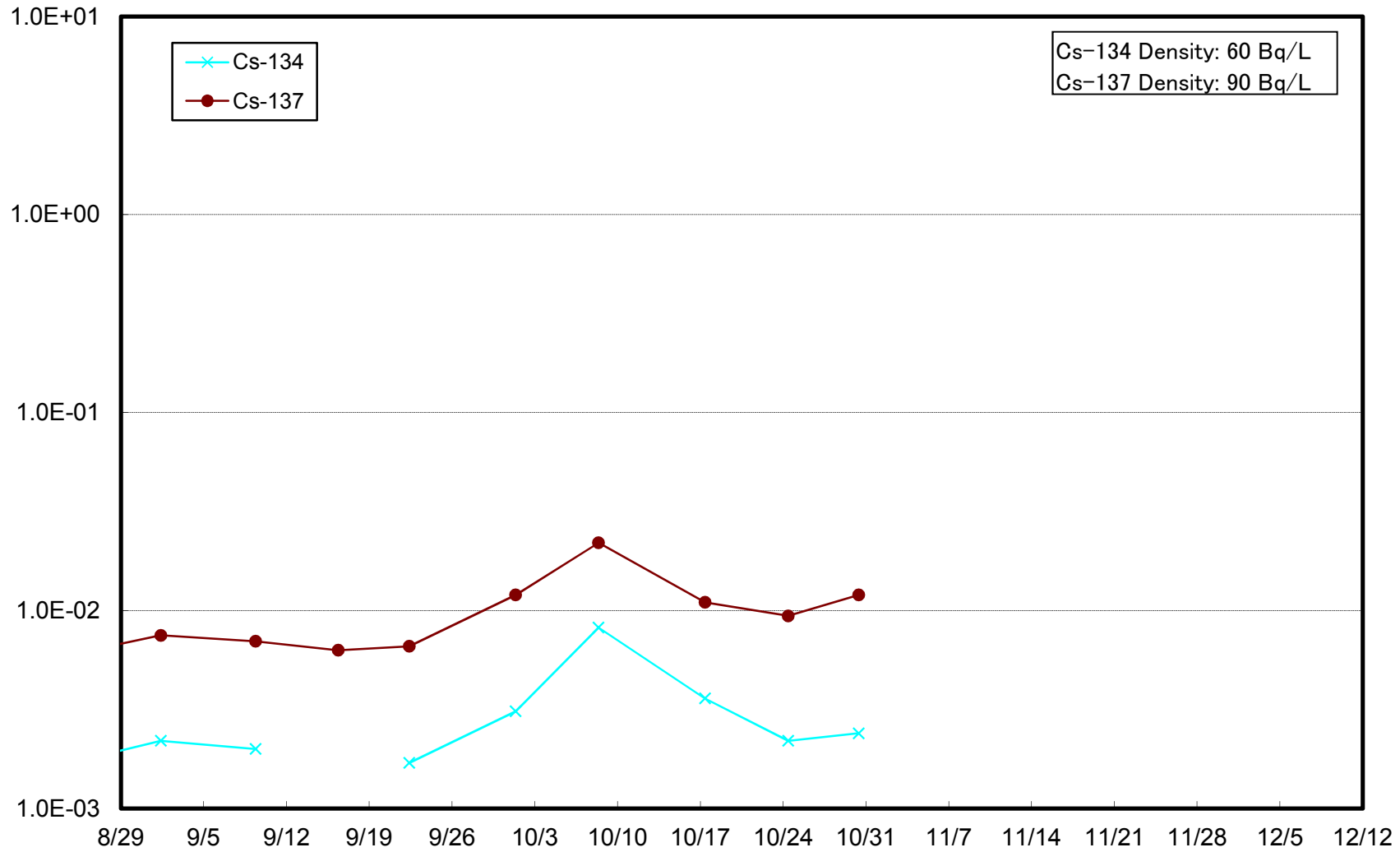
Radioactivity Density of the Seawater at 2F around Iwasa shore (Bq/L)



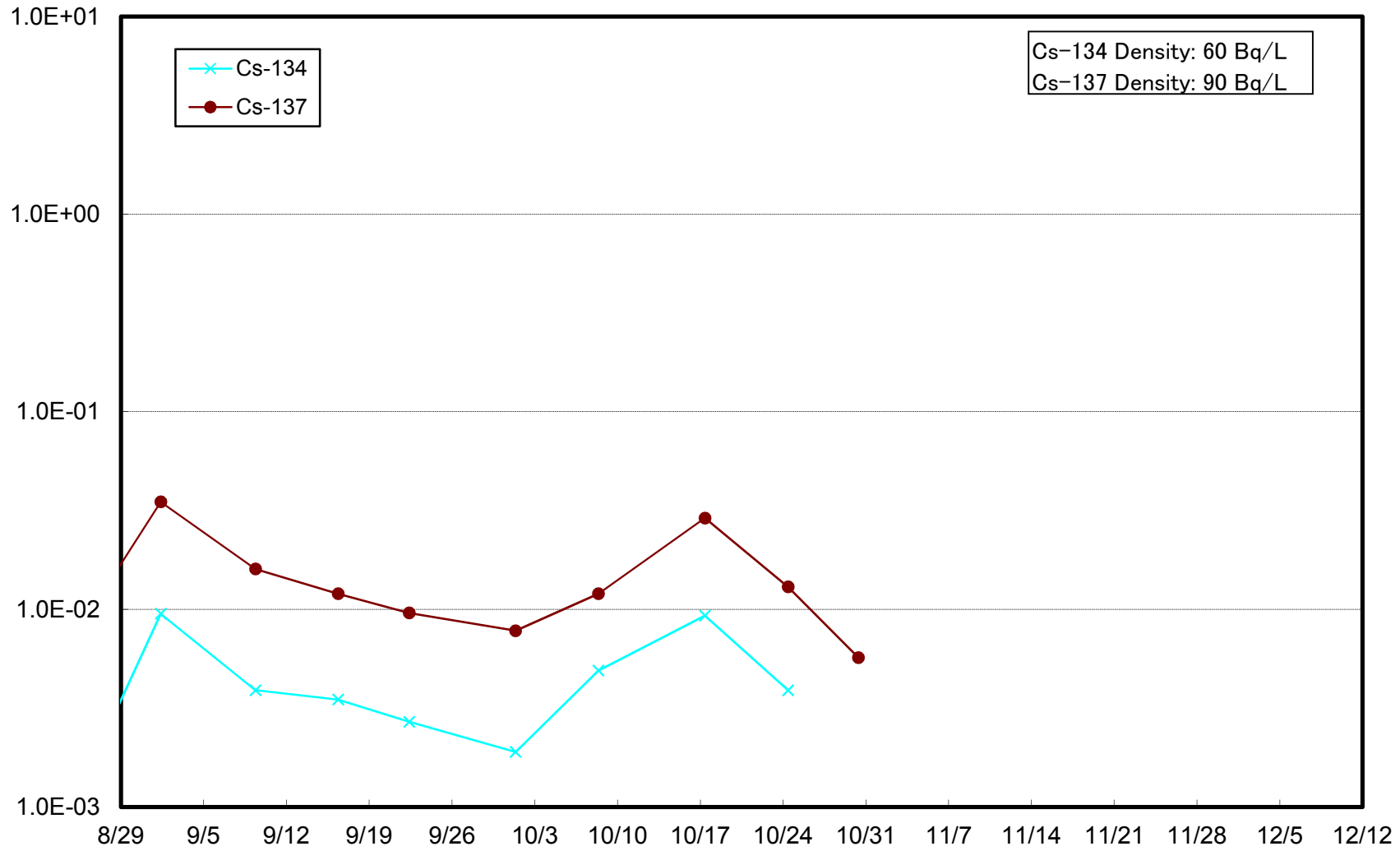
Density of Radioactivity South side of Ukedo port (Bq/L)



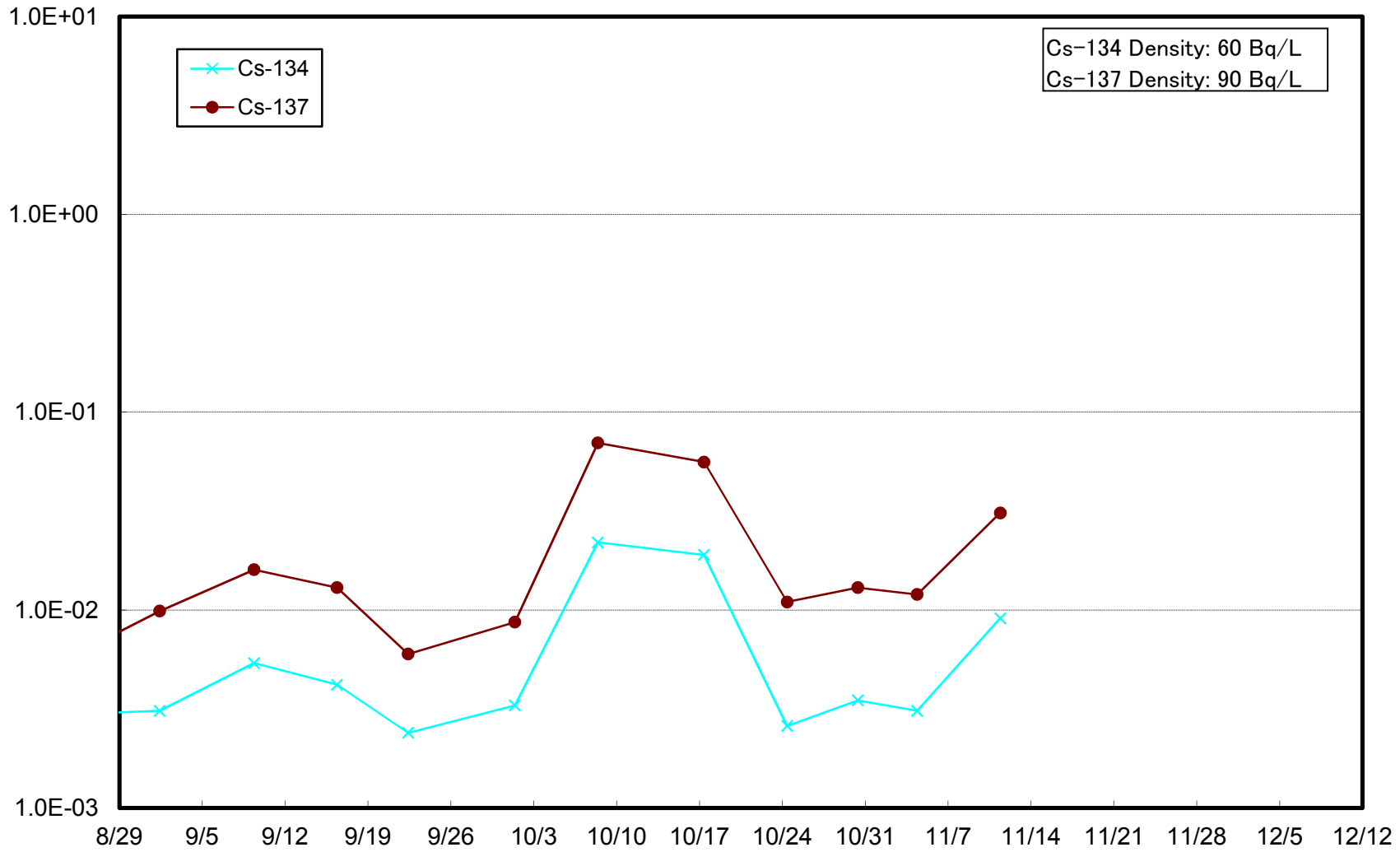
Radioactivity Density of the Seawater at 3km Offshore of Odaka Ward (T-14) Upper Layer (Bq/L)



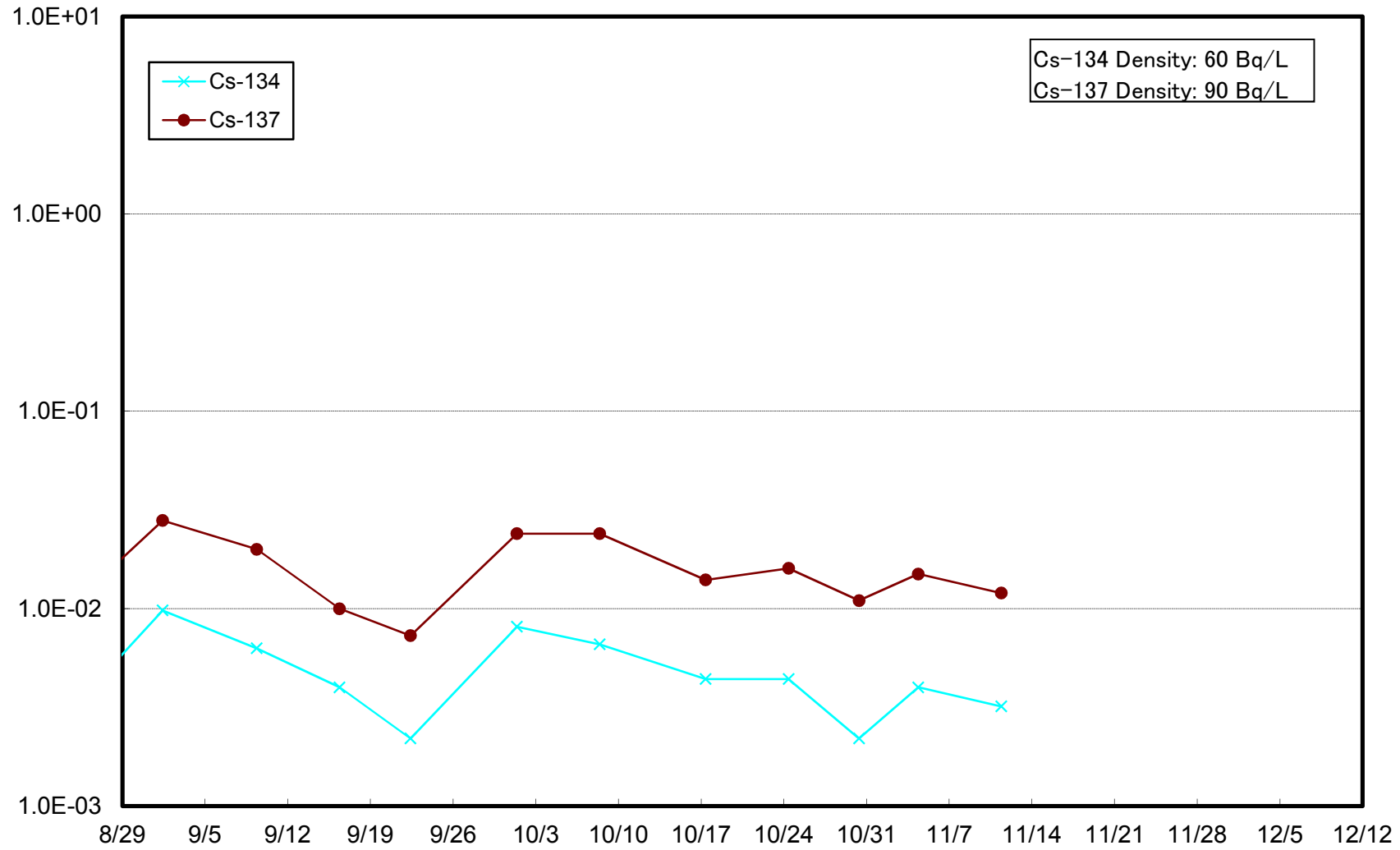
Radioactivity Density of the Seawater at 3km Offshore of Odaka Ward (T-14) Lower Layer (Bq/L)



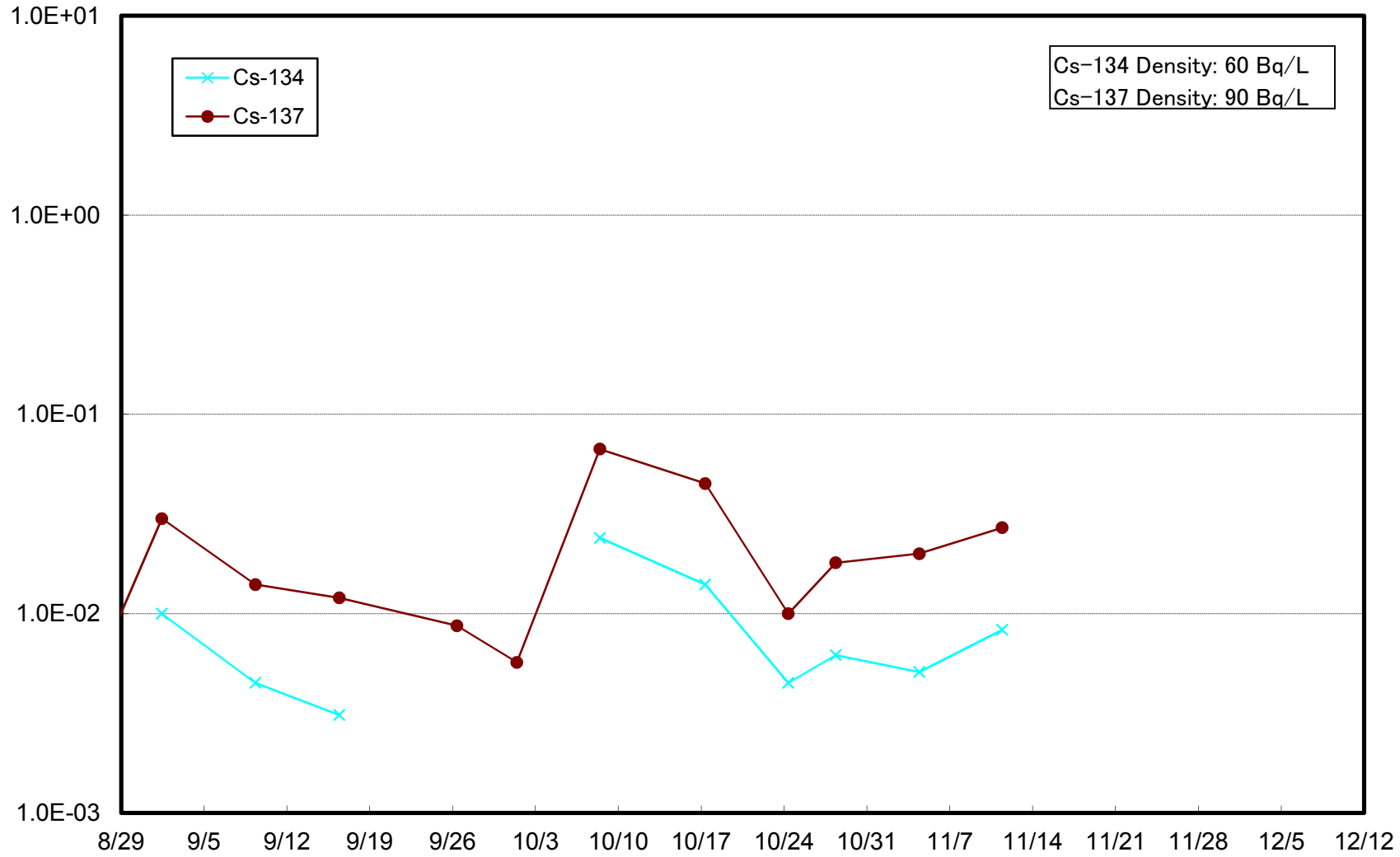
Radioactivity Density of the Seawater at 3km Offshore of Ukedo River (T-D1) Upper Layer (Bq/L)



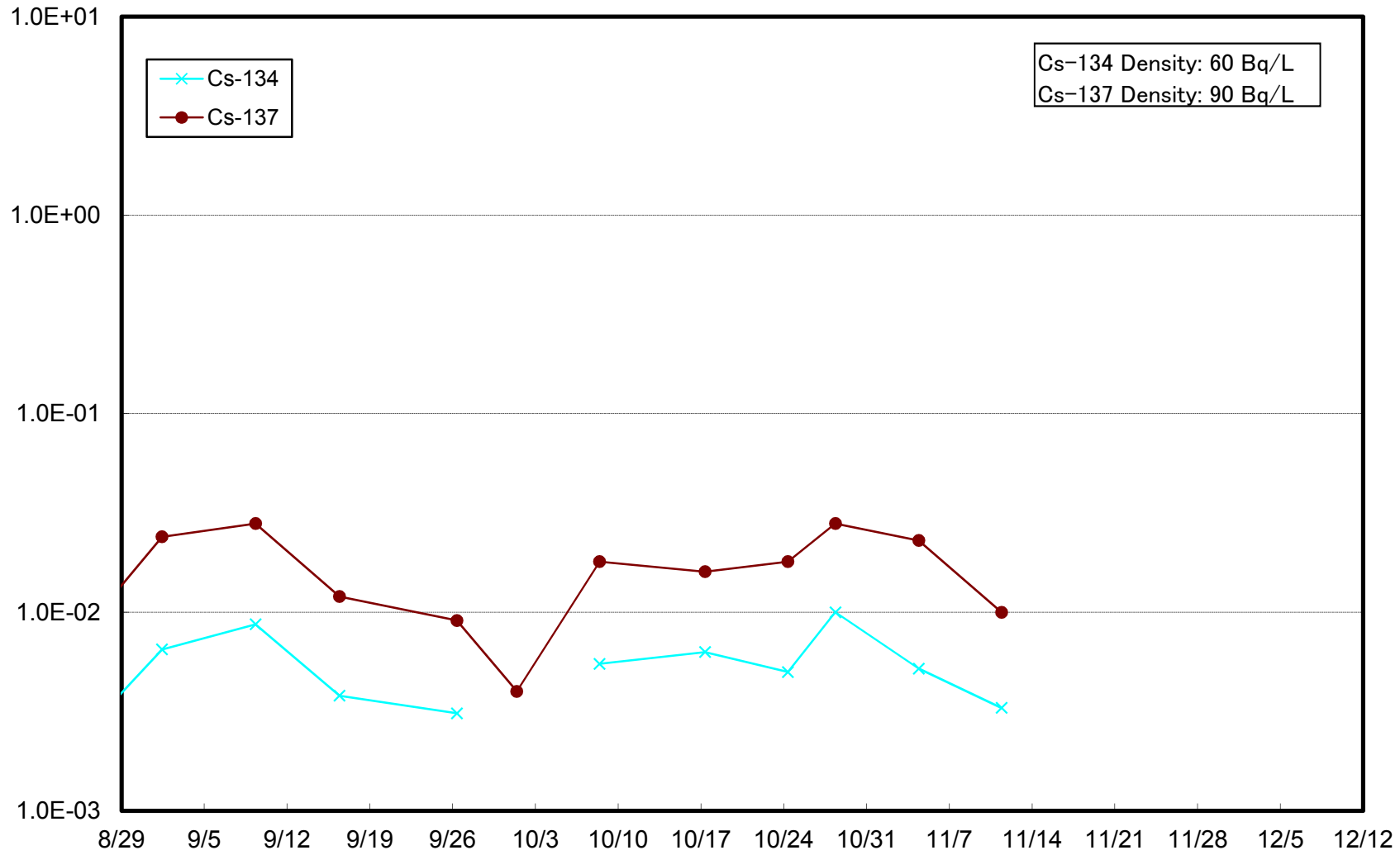
Radioactivity Density of the Seawater at 3km Offshore of Ukedo River (T-D1) Lower Layer (Bq/L)



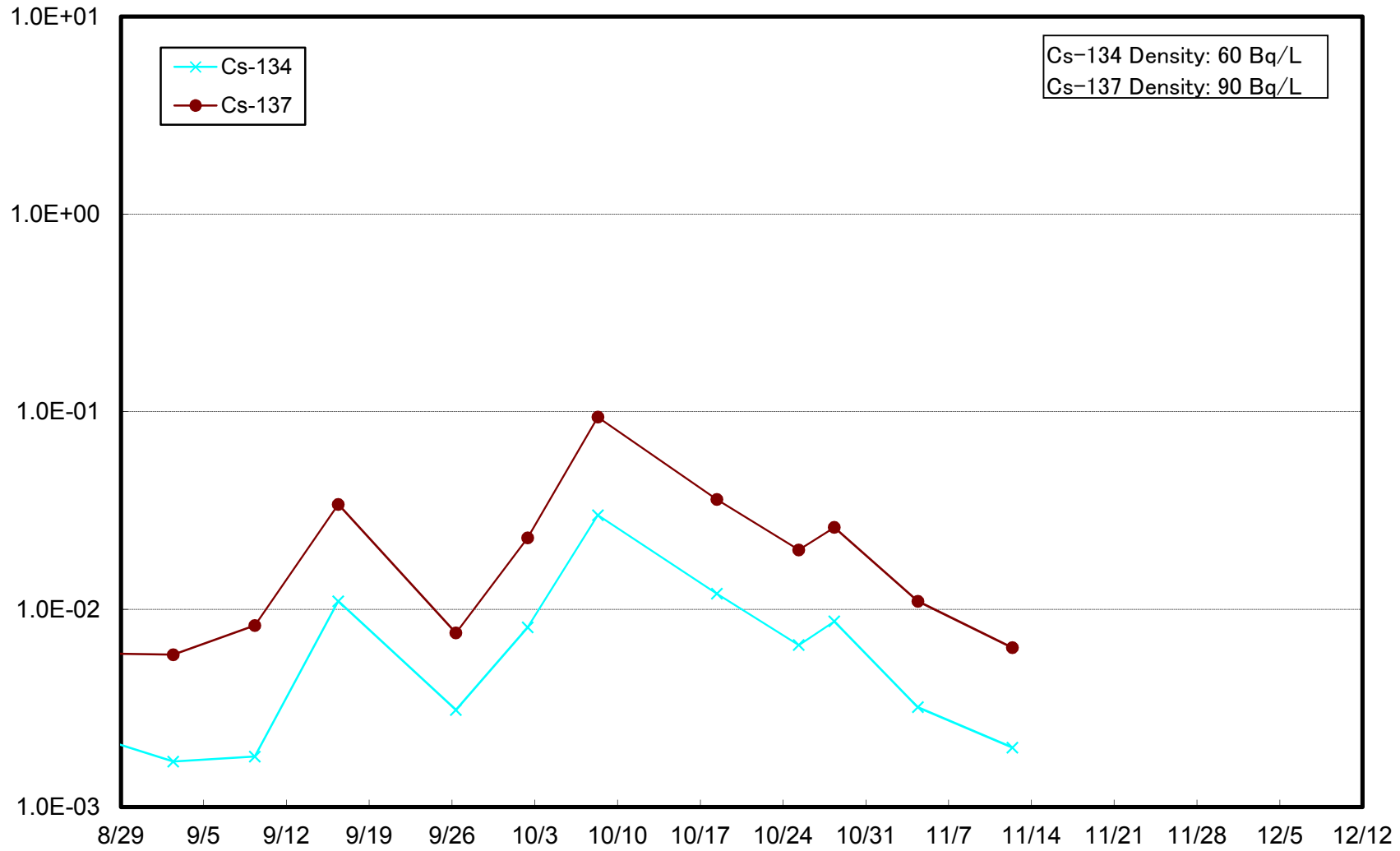
Radioactivity Density of the Seawater at 3km Offshore of Fukushima Daiichi NPS (T-D5) Upper Layer (Bq/L)



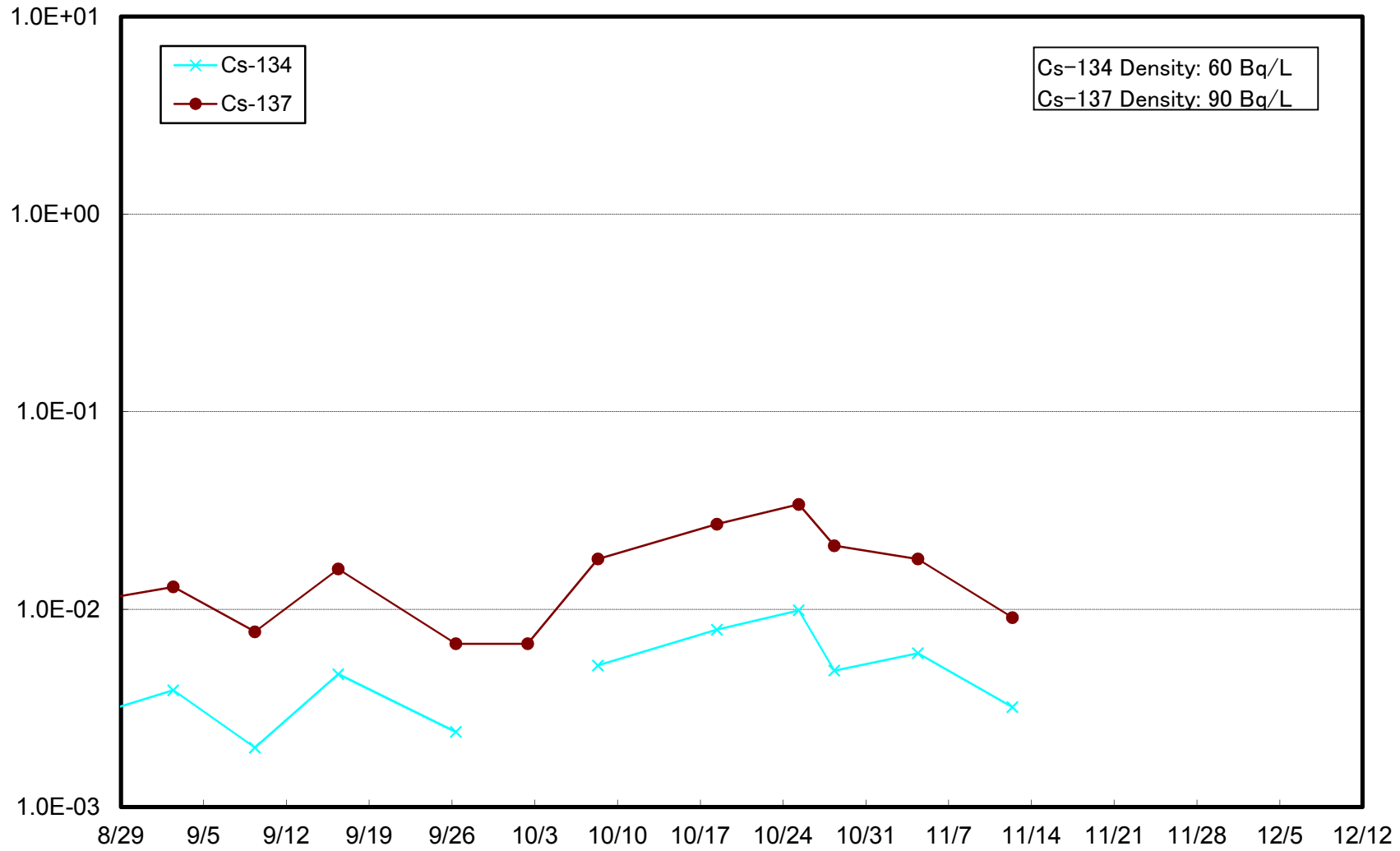
Radioactivity Density of the Seawater at 3km Offshore of Fukushima Daiichi NPS (T-D5) Lower Layer (Bq/L)



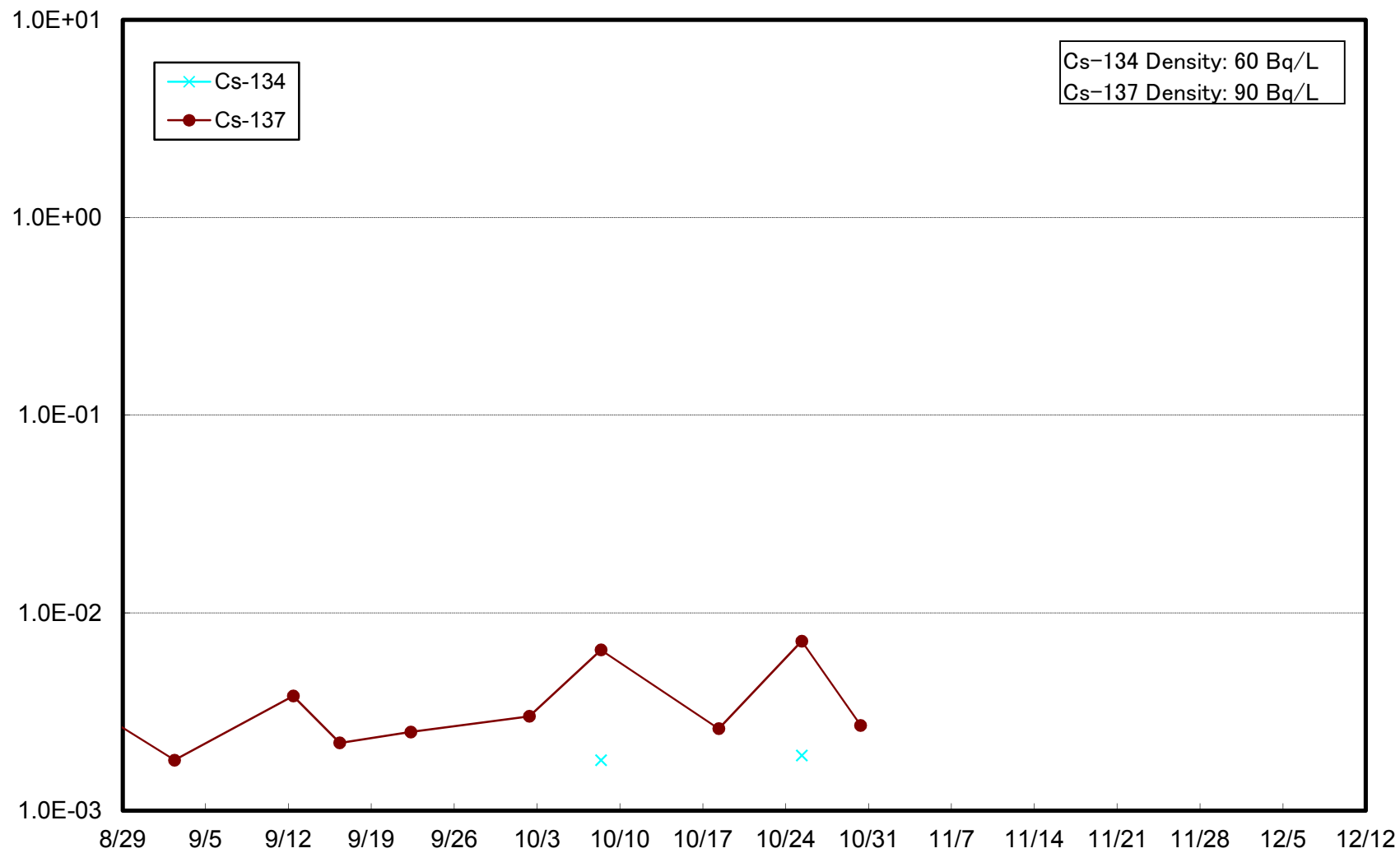
Radioactivity Density of the Seawater at 3km Offshore of Fukushima Daini NPS (T-D9) Upper Layer (Bq/L)



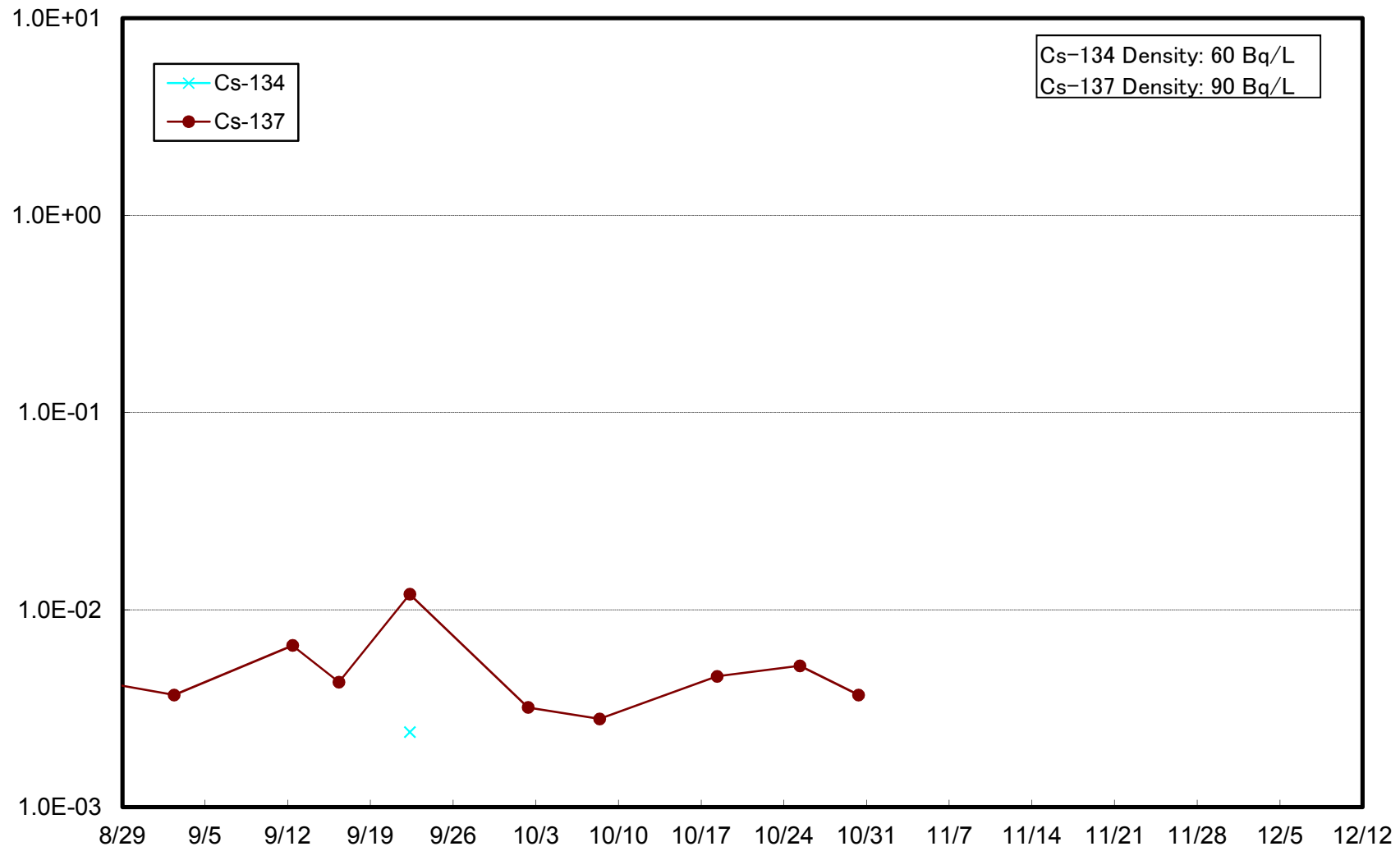
Radioactivity Density of the Seawater at 3km Offshore of Fukushima Daini NPS (T-D9) Lower Layer (Bq/L)



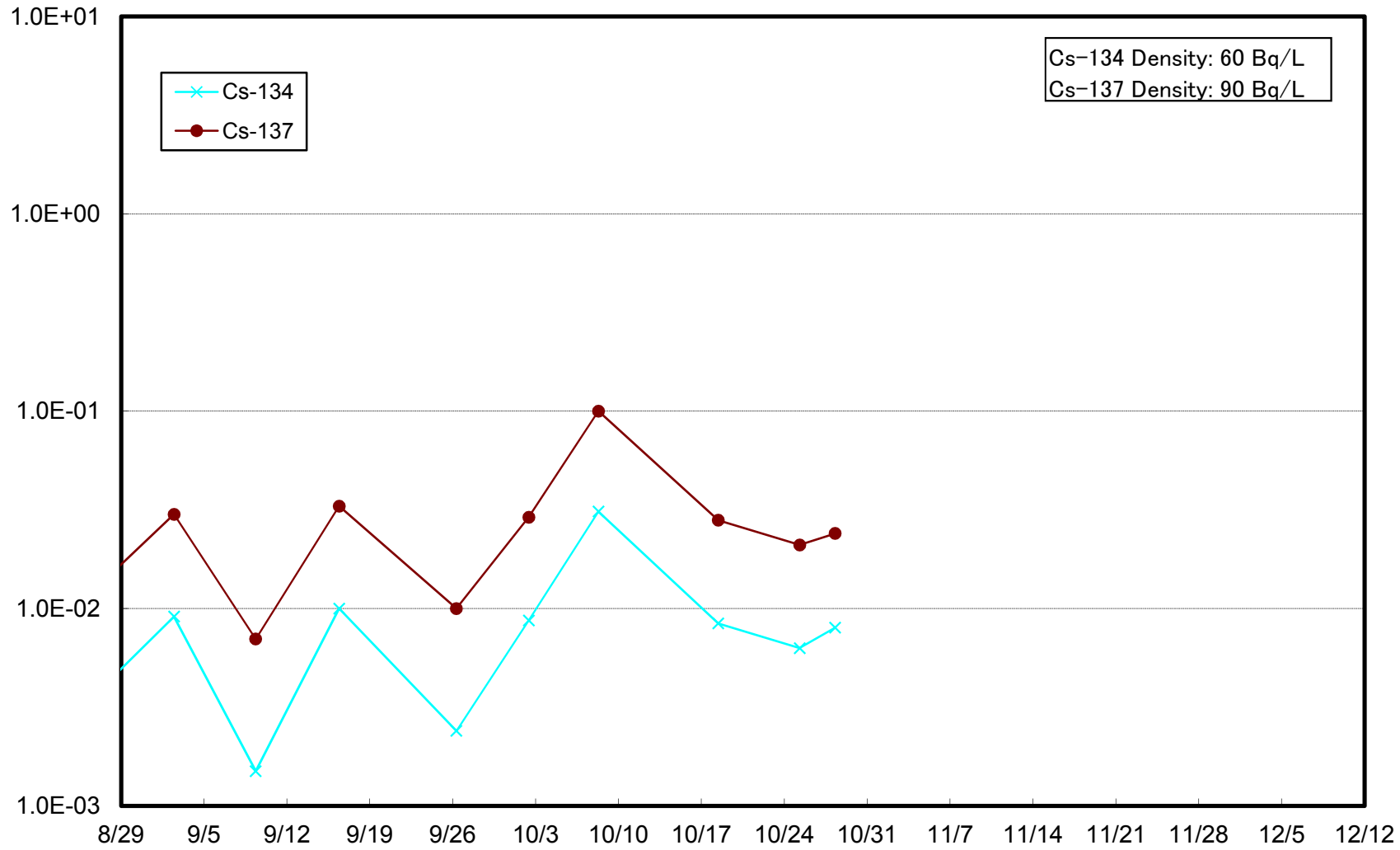
Radioactivity Density of the Seawater at 15km Offshore of Fukushima Daiichi NPS (T-5) Upper Layer (Bq/L)



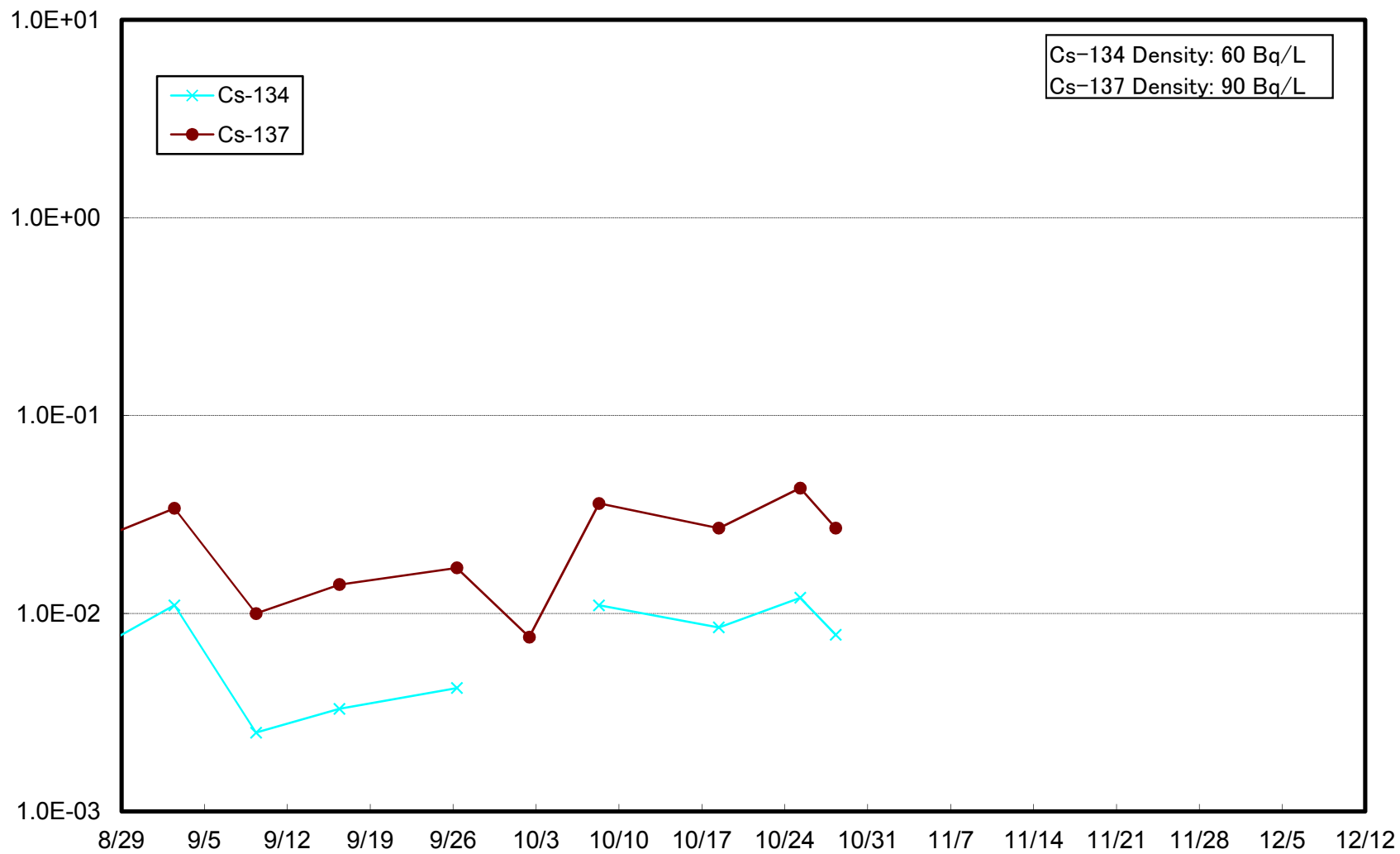
Radioactivity Density of the Seawater at 15km Offshore of Fukushima Daiichi NPS (T-5) Lower Layer (Bq/L)



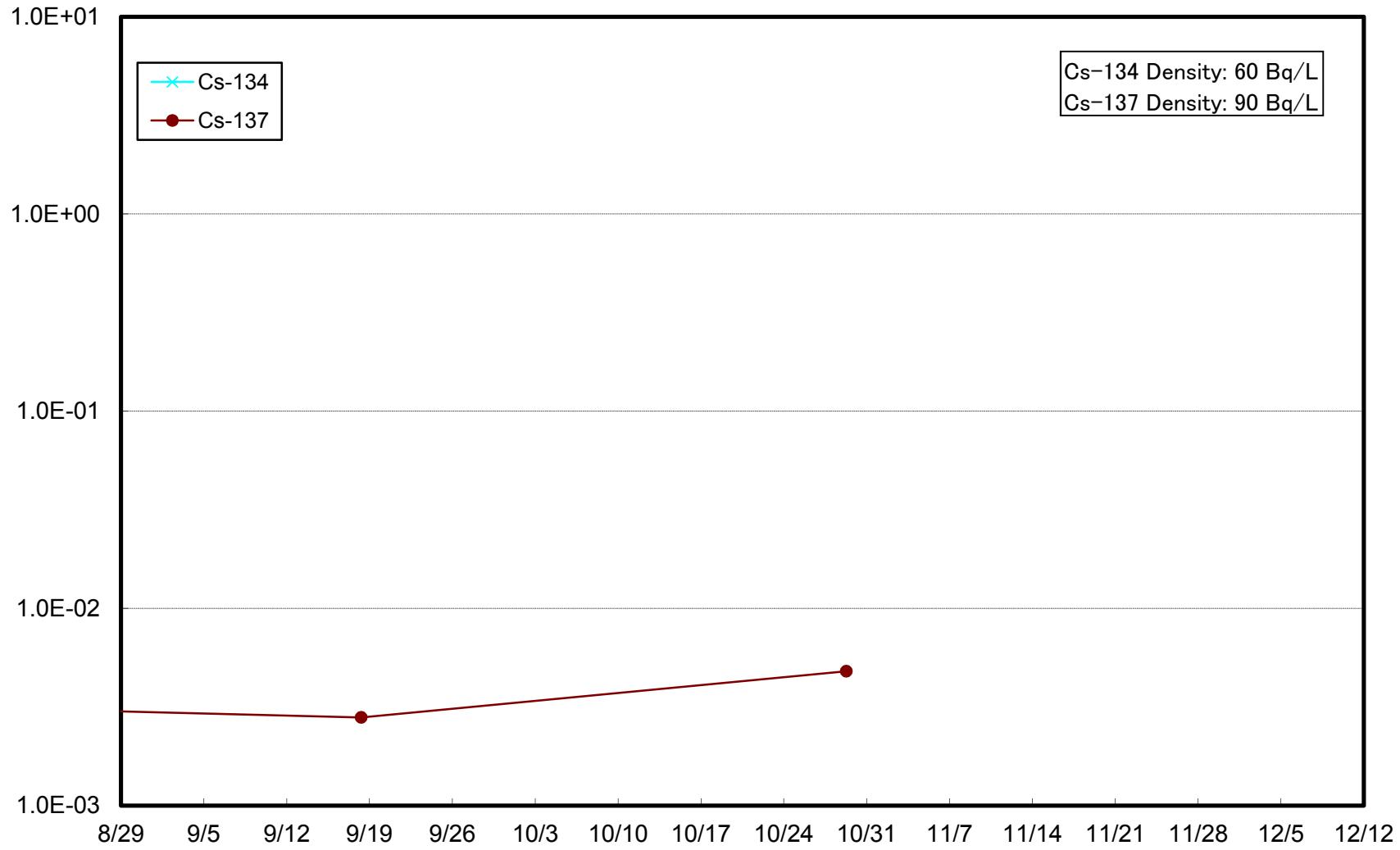
Radioactivity Density of the Seawater at 3km Offshore of Iwasawa Shore (T-11) Upper Layer (Bq/L)



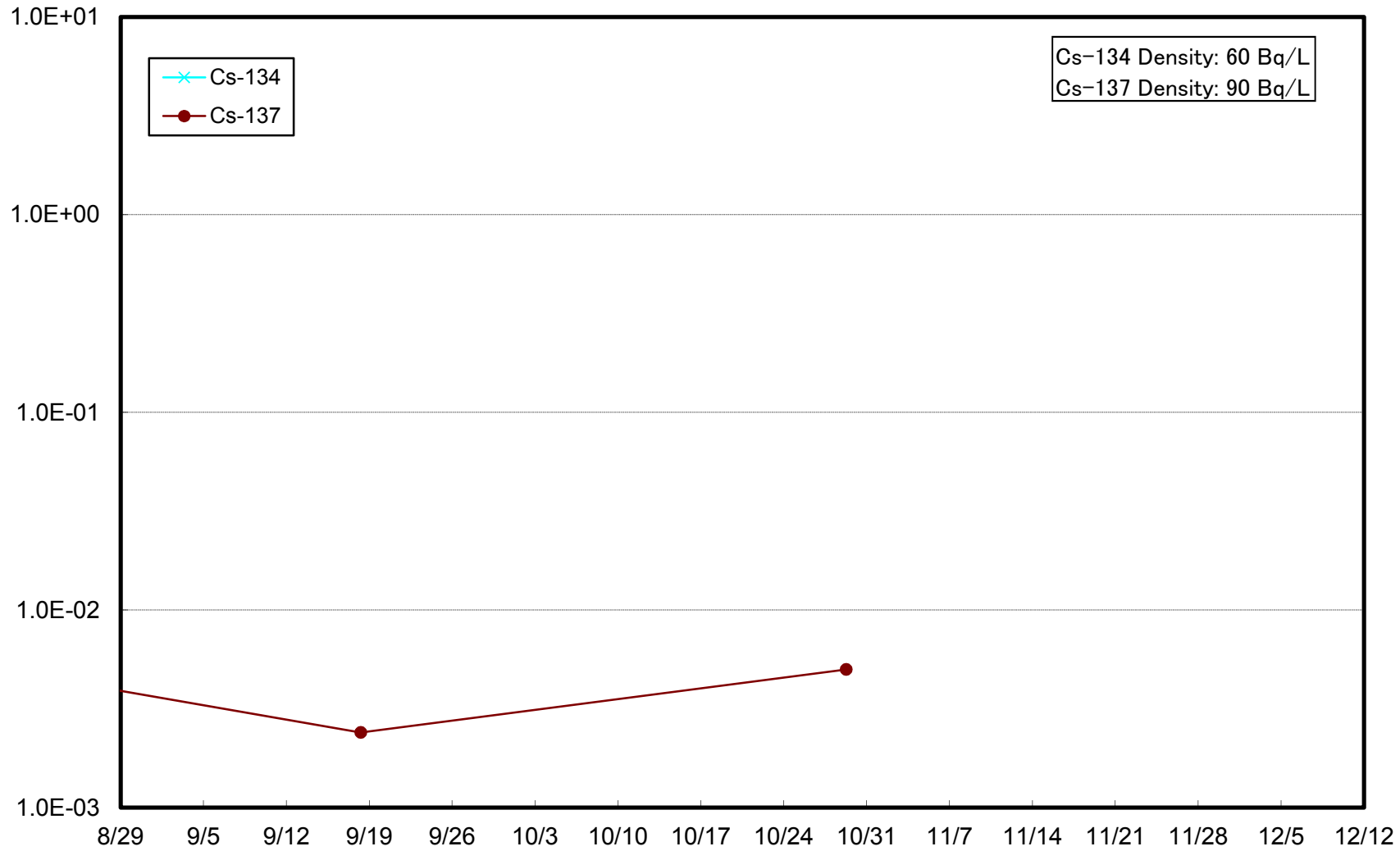
Radioactivity Density of the Seawater at 3km Offshore of Iwasawa Shore (T-11) Lower Layer (Bq/L)



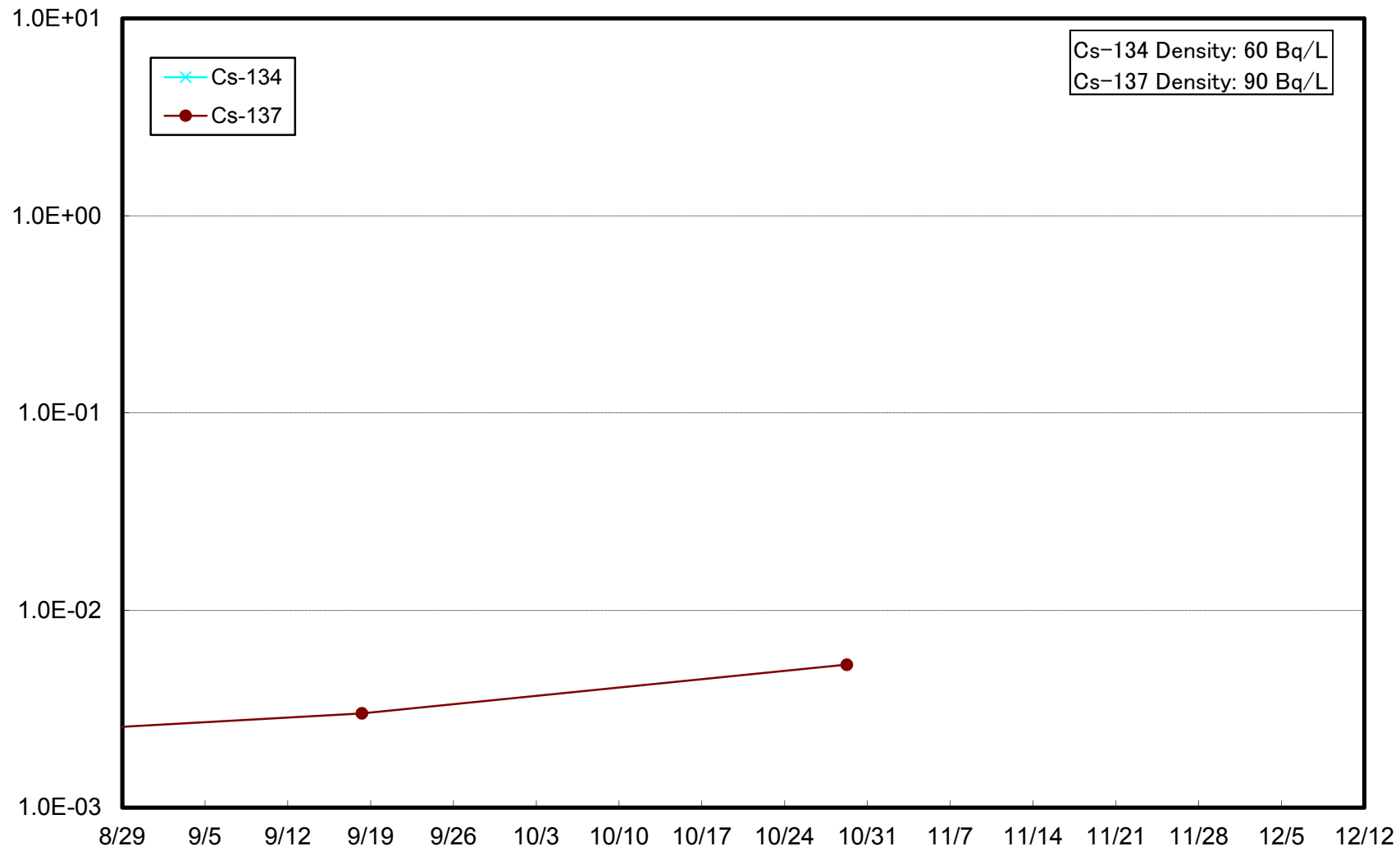
Radioactivity Density of the Seawater at 15km Offshore of Odaka Ward (T-B1) Upper Layer (Bq/L)



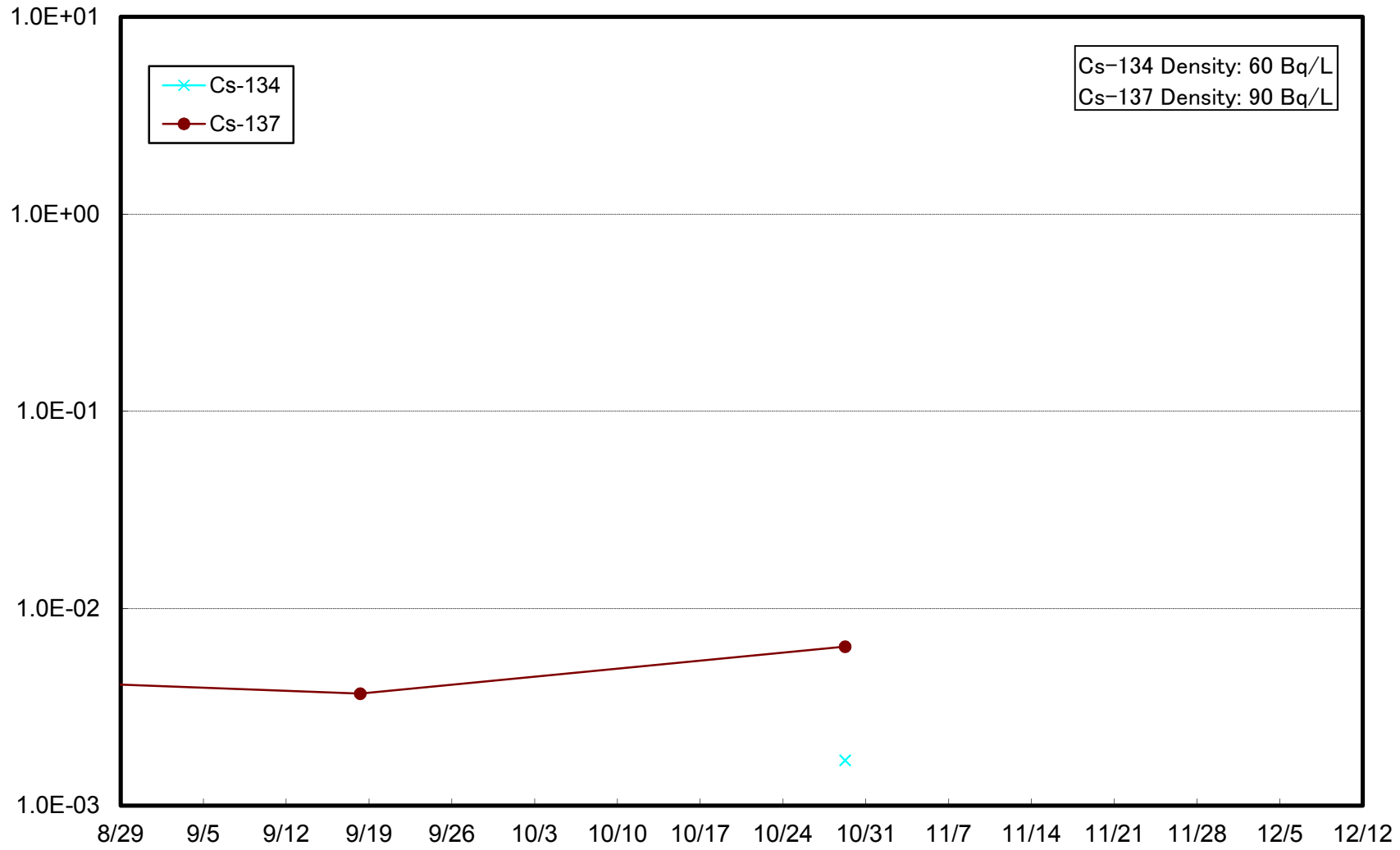
Radioactivity Density of the Seawater at 15km Offshore of Odaka Ward (T-B1) Lower Layer (Bq/L)



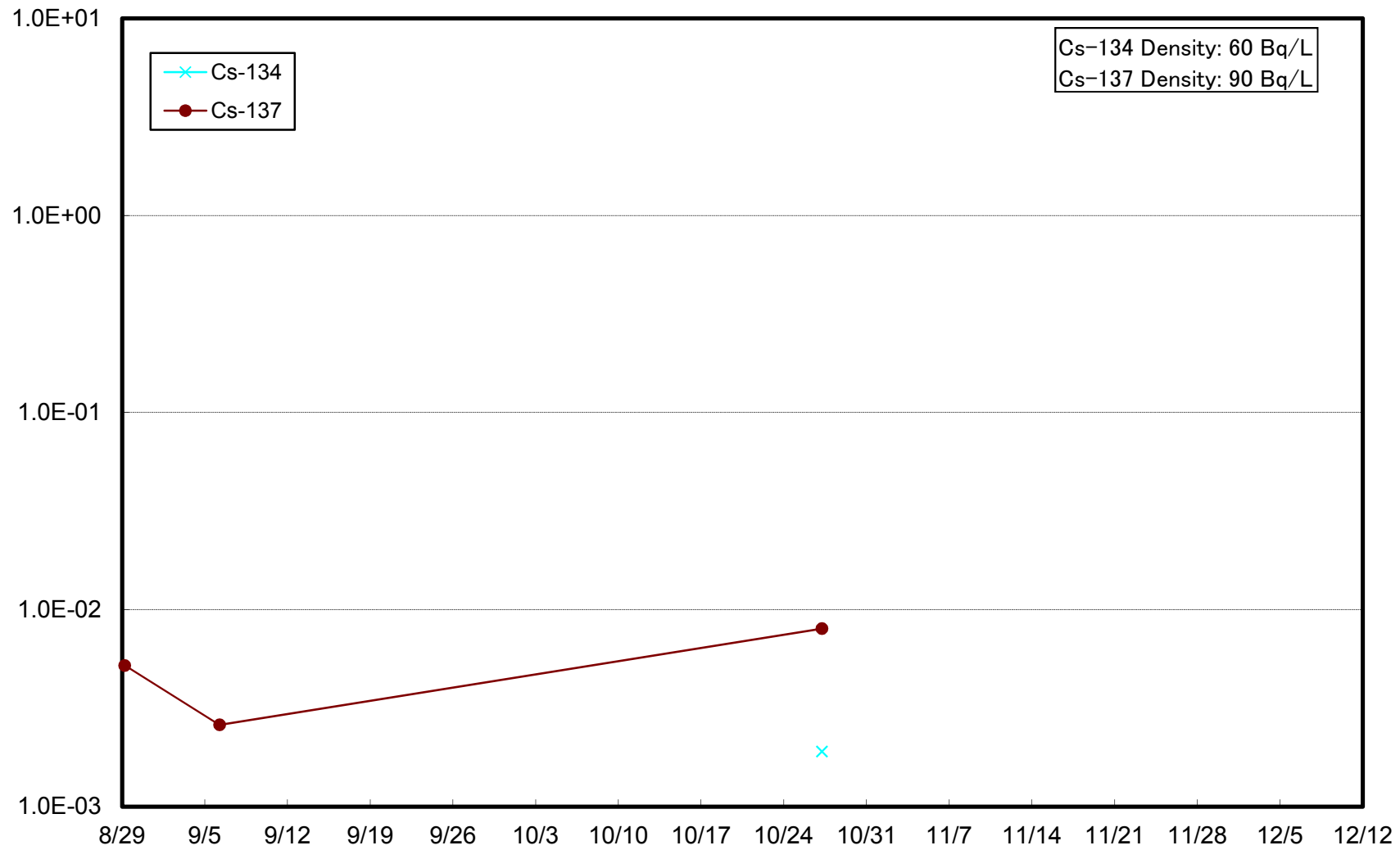
Radioactivity Density of the Seawater at 18km Offshore of Ukedo River (T-B2) Upper Layer (Bq/L)



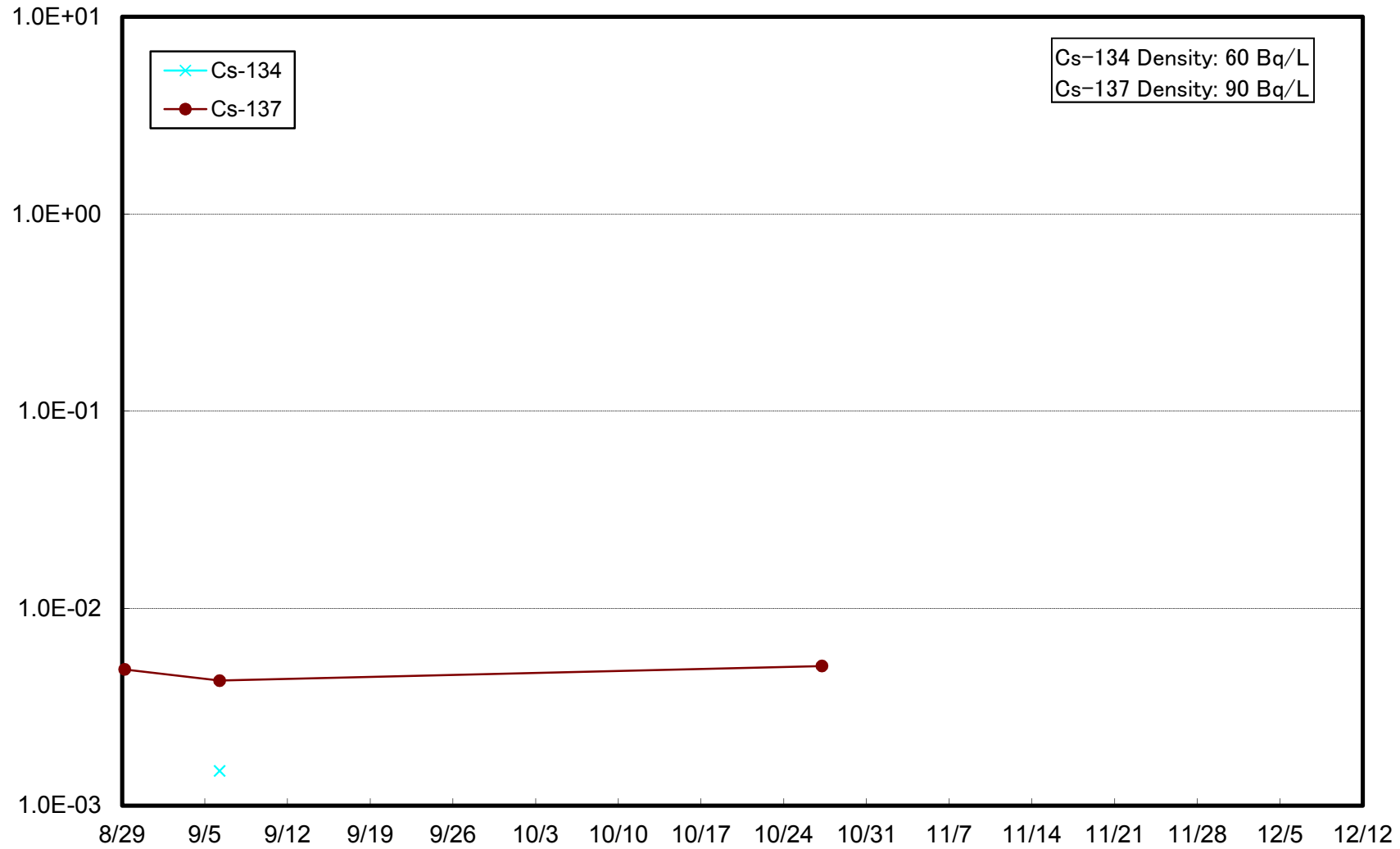
Radioactivity Density of the Seawater at 18km Offshore of Ukedo River (T-B2) Lower Layer (Bq/L)



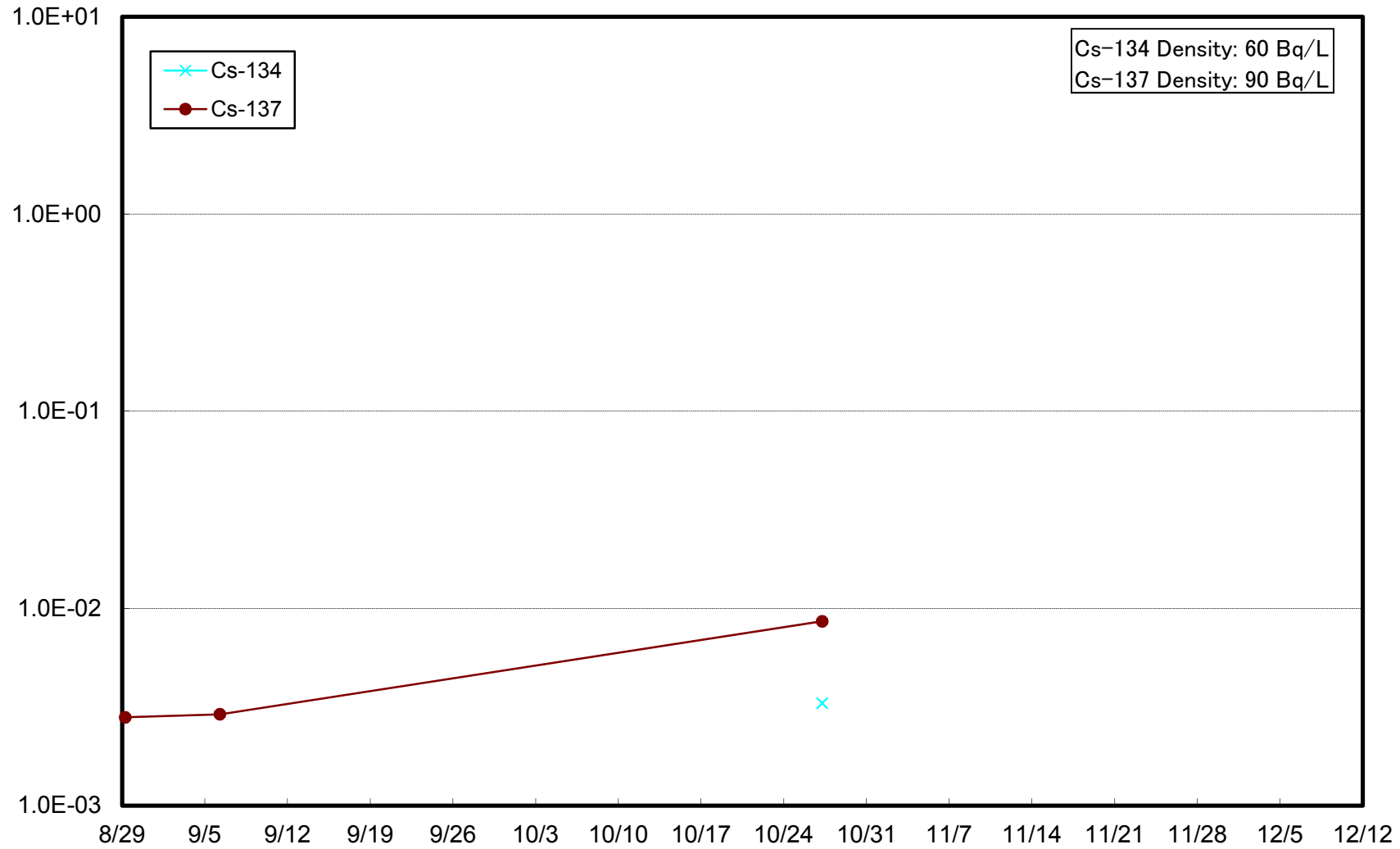
Radioactivity Density of the Seawater at 10km Offshore of Fukushima Daiichi NPS (T-B3) Upper Layer (Bq/L)



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



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



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

