

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

(Data summarized on September 4)

| Place of Sampling                | North of Unit 5-6 Discharge Channel at 1F<br>(Approx. 30m North of Unit 5-6 Discharge Channel) |                         | Around 1F South Discharge Channel of 1F<br>(Approx. 330m South of Unit 1-4 Discharge Channel) |                         | Density Limit Specified by<br>the Reactor Regulation<br>(Bq/L)<br><br>(The density limit in the water<br>outside the surrounding<br>monitored areas is provided<br>in section 6 of Appendix 2.) |
|----------------------------------|--|-------------------------|---|-------------------------|---|
| Time of Sampling                 | Sep 3, 2012<br>7:35 AM   |                         | Sep 3, 2012<br>7:15 AM  |                         |   |
| Detected Nuclides<br>(Half-life) | Density of Sample<br>(Bq/L)  | Scaling Factor<br>( / ) | Density of Sample<br>(Bq/L)   | Scaling Factor<br>( / ) |   |
| I-131<br>(Approx. 8 days)        | ND   | -                       | ND  | -                       | 40  |
| Cs-134<br>(Approx. 2 years)      | ND   | -                       | ND  | -                       | 60  |
| Cs-137<br>(Approx. 30 years)     | ND   | -                       | ND  | -                       | 90  |

\* The density specified by the Reactor Regulation is converted from Bq/cm<sup>3</sup> 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. 0.43Bq/L, Cs-134: Approx.1.0Bq/L, Cs-137: Approx.1.3Bq/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 >

(Data summarized on September 4)

| Place of Sampling<br>(Place No.) | *1                                |                            |                                    |                            | *2   |                            |  |                            | *2                             |                            |                                |                            | Density Limit Specified<br>by the Reactor Regulation<br>(Bq/L)<br><br>(The density limit in the<br>water outside the<br>surrounding monitored<br>areas is provided in<br>section 6 of Appendix 2.) |
|----------------------------------|-----------------------------------|----------------------------|------------------------------------|----------------------------|--|----------------------------|--|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--|
|                                  | 3km Offshore of Odaka Ward (T-14) |                            | 3km Offshore of Ukedo River (T-D1) |                            | 3km Offshore of Fukushima Daiichi NPS (T-D5) |                            | 3km Offshore of Fukushima Daiichi NPS (T-D5) |                            | Upper Layer                    |                            | Lower Layer                    |                            |  |
| Time of Sampling                 | Aug 6, 2012<br>8:15 AM            |                            | Aug 6, 2012<br>8:15 AM             |                            | Aug 6, 2012<br>7:40 AM                       |                            | Aug 6, 2012<br>7:40 AM                       |                            | Aug 6, 2012<br>7:15 AM         |                            | Aug 6, 2012<br>7:15 AM         |                            |  |
| Detected Nuclides<br>(Half-life) | Density of<br>Sample<br>(Bq/L)    | Scaling<br>Factor<br>( / ) | Density of<br>Sample<br>(Bq/L)     | Scaling<br>Factor<br>( / ) | Density of<br>Sample<br>(Bq/L)               | Scaling<br>Factor<br>( / ) | Density of<br>Sample<br>(Bq/L)               | Scaling<br>Factor<br>( / ) | Density of<br>Sample<br>(Bq/L) | Scaling<br>Factor<br>( / ) | Density of<br>Sample<br>(Bq/L) | Scaling<br>Factor<br>( / ) |  |
| Cs-134<br>(Approx. 2 years)      | 0.047                             | 0.00                       | 0.035                              | 0.00                       | 0.067  | 0.00                       | 0.025  | 0.00                       | 0.15                           | 0.00                       | 0.052                          | 0.00                       | 60   |
| Cs-137<br>(Approx. 30 years)     | 0.069                             | 0.00                       | 0.054                              | 0.00                       | 0.11   | 0.00                       | 0.037  | 0.00                       | 0.23                           | 0.00                       | 0.078                          | 0.00                       | 90   |

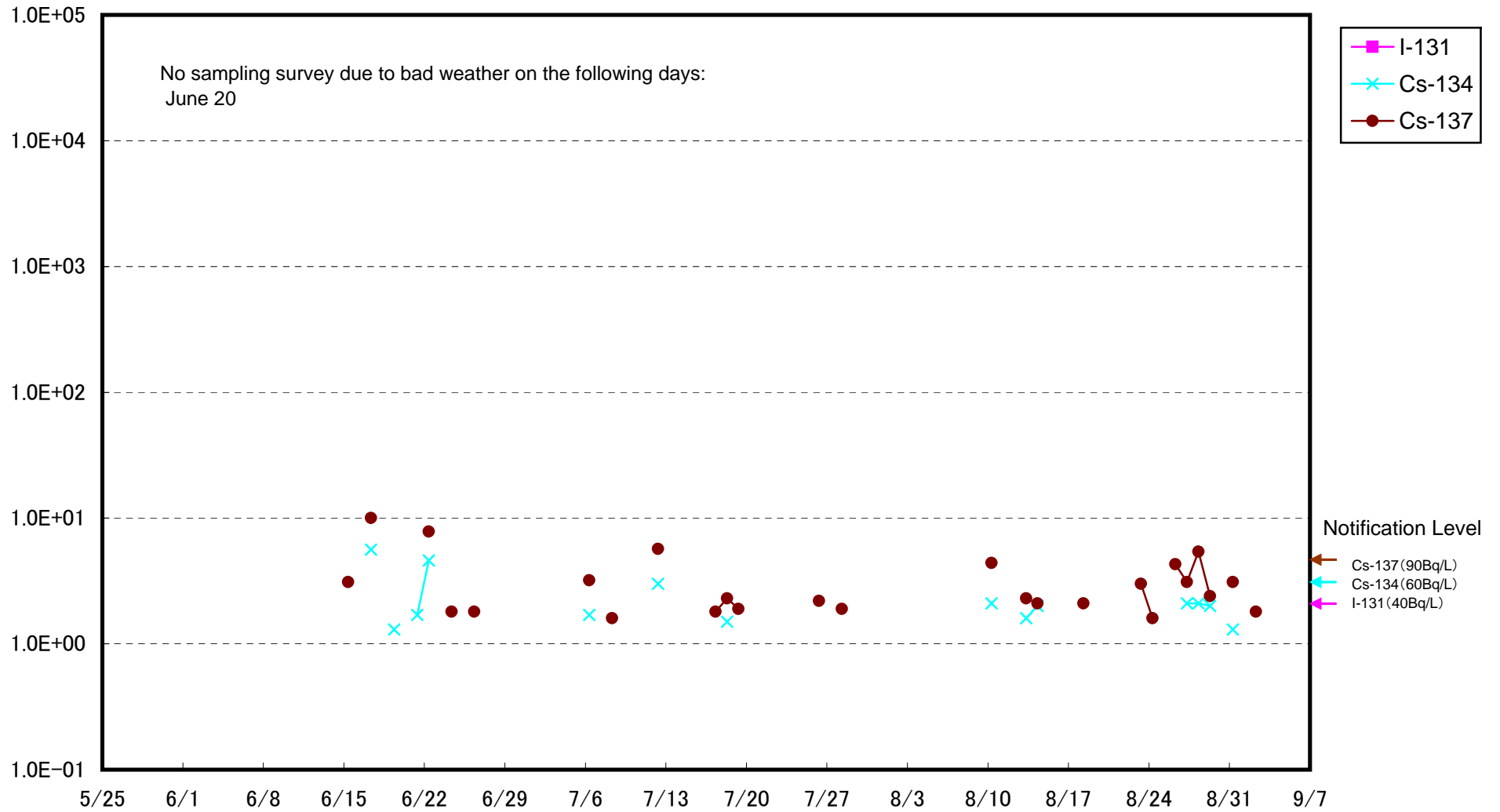
| Place of Sampling<br>(Place No.) | *1   |                            |                                      |                            | *1                                   |                            |                                      |                            | /                              |                            |                                |                            | Density Limit Specified<br>by the Reactor Regulation<br>(Bq/L)<br><br>(The density limit in the<br>water outside the<br>surrounding monitored<br>areas is provided in<br>section 6 of Appendix 2.) |
|----------------------------------|--|----------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--|
|                                  | 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) |                            | Upper Layer                    |                            | Lower Layer                    |                            |  |
| Time of Sampling                 | Aug 3, 2012<br>7:40 AM                       |                            | Aug 3, 2012<br>7:40 AM               |                            | Aug 3, 2012<br>6:20 AM               |                            | Aug 3, 2012<br>6:20 AM               |                            |                                |                            |                                |                            |  |
| Detected Nuclides<br>(Half-life) | Density of<br>Sample<br>(Bq/L)               | Scaling<br>Factor<br>( / ) | Density of<br>Sample<br>(Bq/L)       | Scaling<br>Factor<br>( / ) | Density of<br>Sample<br>(Bq/L)       | Scaling<br>Factor<br>( / ) | Density of<br>Sample<br>(Bq/L)       | Scaling<br>Factor<br>( / ) | Density of<br>Sample<br>(Bq/L) | Scaling<br>Factor<br>( / ) | Density of<br>Sample<br>(Bq/L) | Scaling<br>Factor<br>( / ) |  |
| Cs-134<br>(Approx. 2 years)      | 0.0091                                       | 0.00                       | 0.0094                               | 0.00                       | 0.011                                | 0.00                       | 0.0073                               | 0.00                       | /                              | /                          | /                              | /                          | 60   |
| Cs-137<br>(Approx. 30 years)     | 0.013  | 0.00                       | 0.016                                | 0.00                       | 0.016                                | 0.00                       | 0.012                                | 0.00                       | /                              | /                          | /                              | /                          | 90   |

\* The density specified by the Reactor Regulation is converted from Bq/cm<sup>3</sup> to Bq/L.

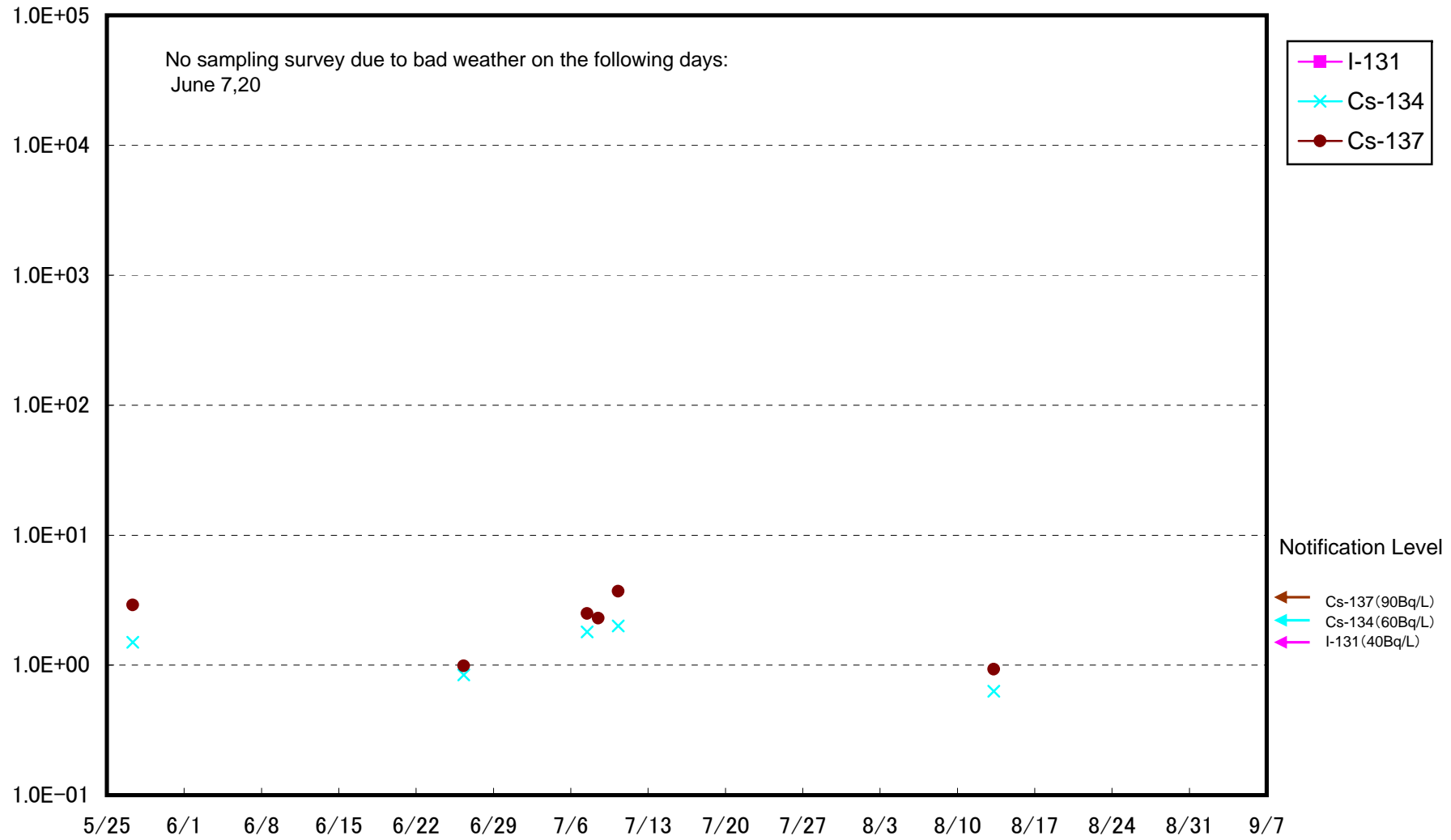
\* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

\* Analyzed by : \*1 THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD., \*2 Tokyo Electric Power Environmental Engineering Co., Inc.

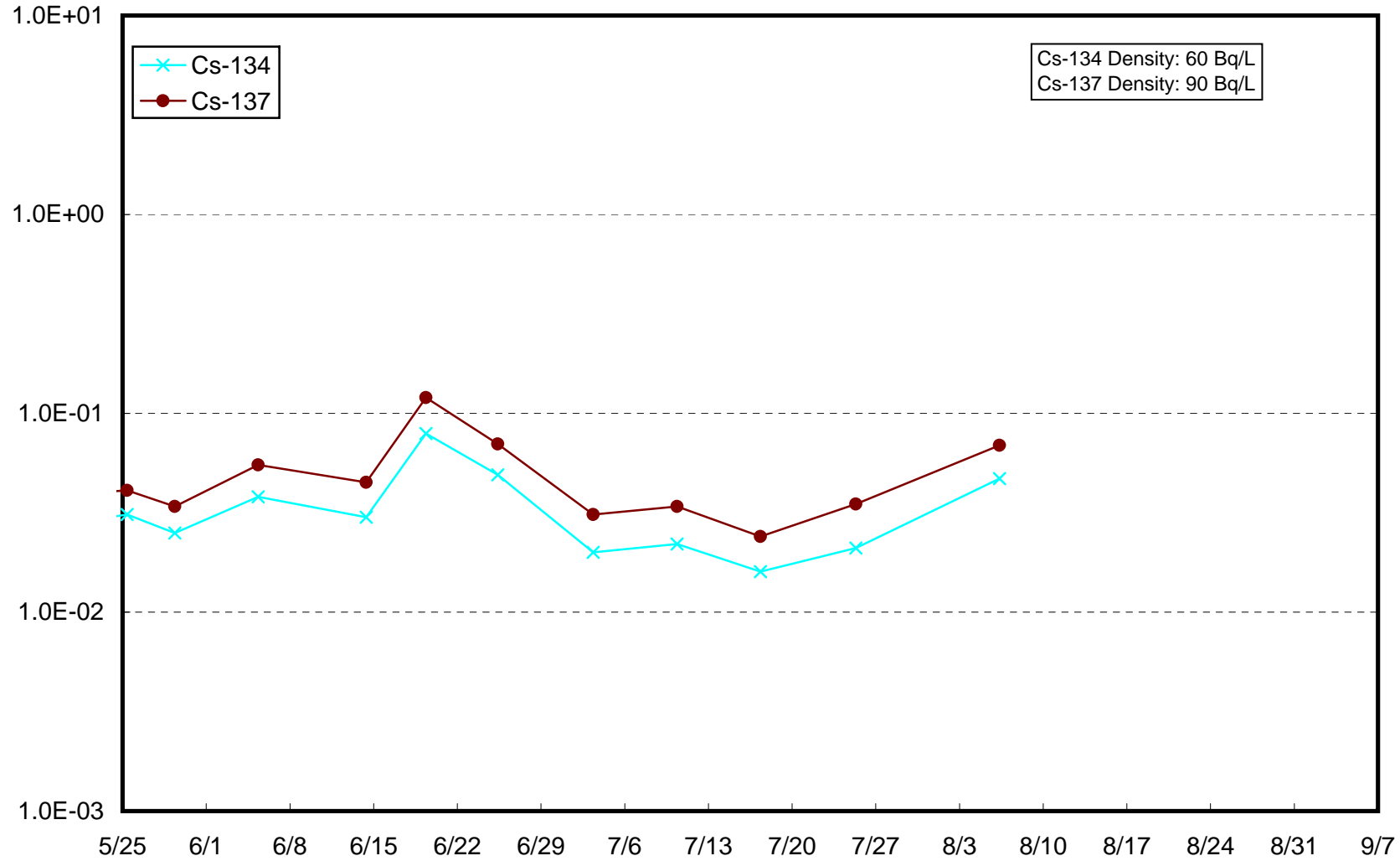
Radioactivity Density of the Seawater at the North of 1F Unit 5-6 Discharge Channel (Bq/L)



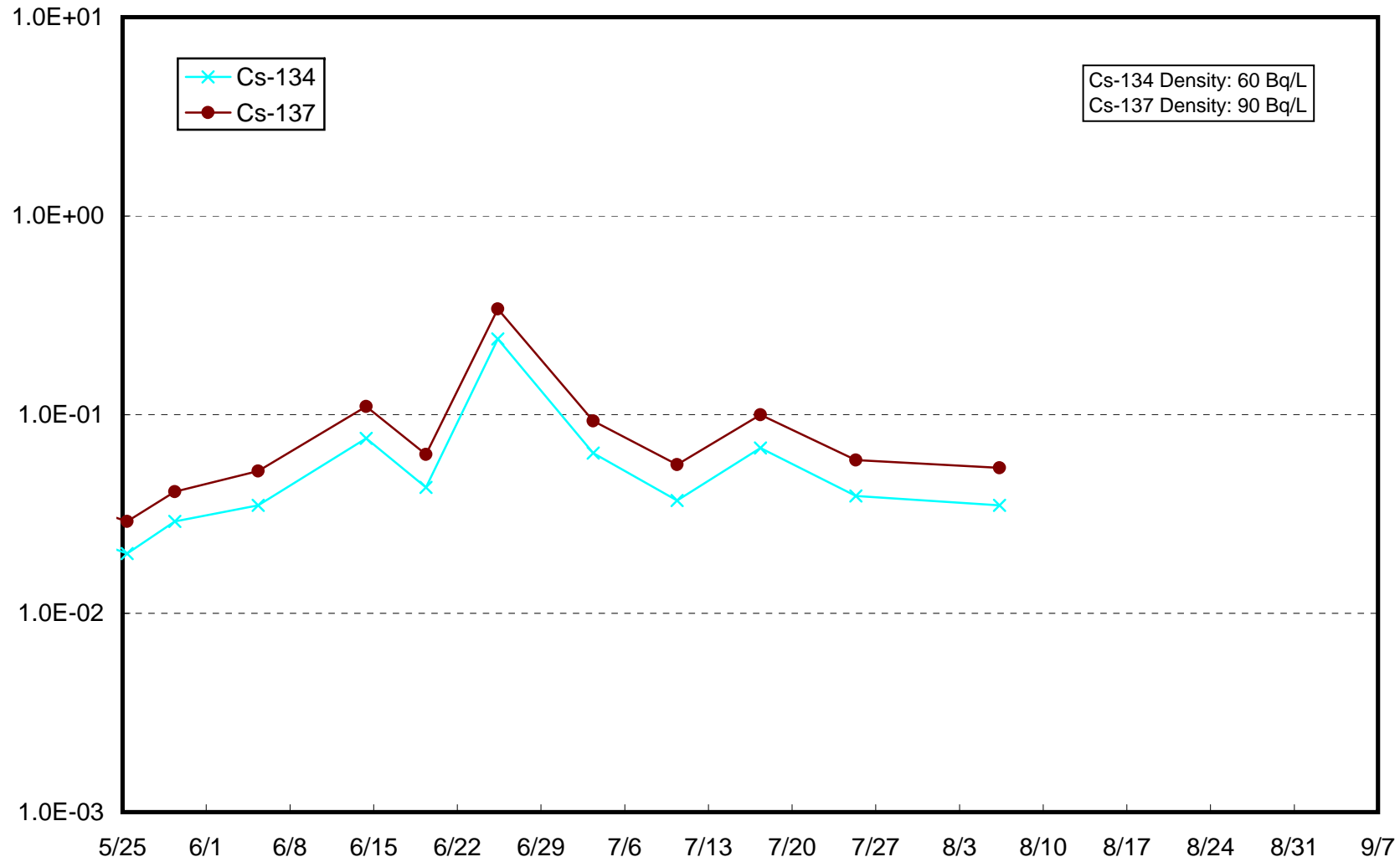
Radioactivity Density of the Seawater at 1F South Discharge Channel (Bq/L)



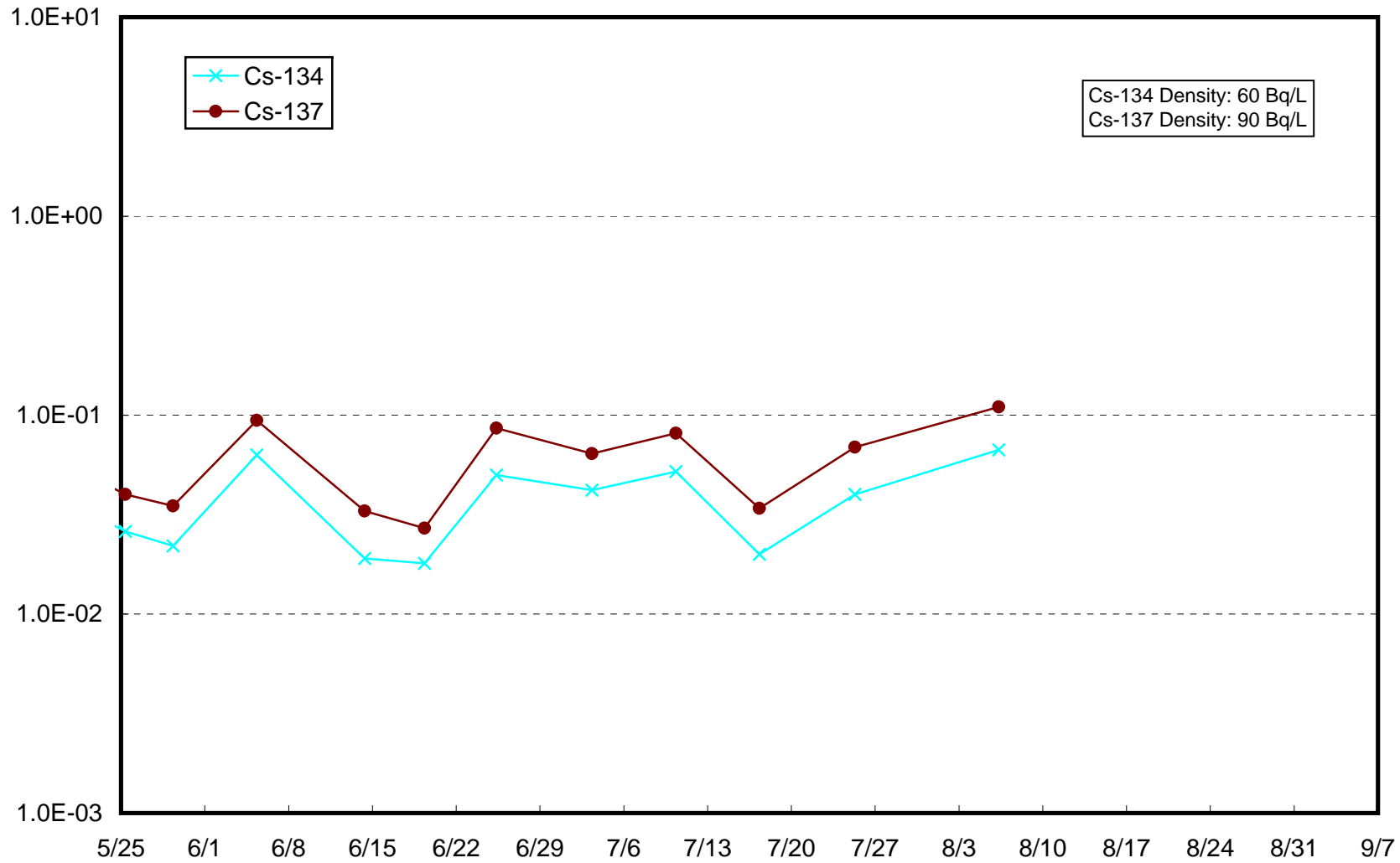
Radioactivity Density of the Seawater at 3km Offshore of Odaka Ward (T-14) Upper Layer (Bq/L)



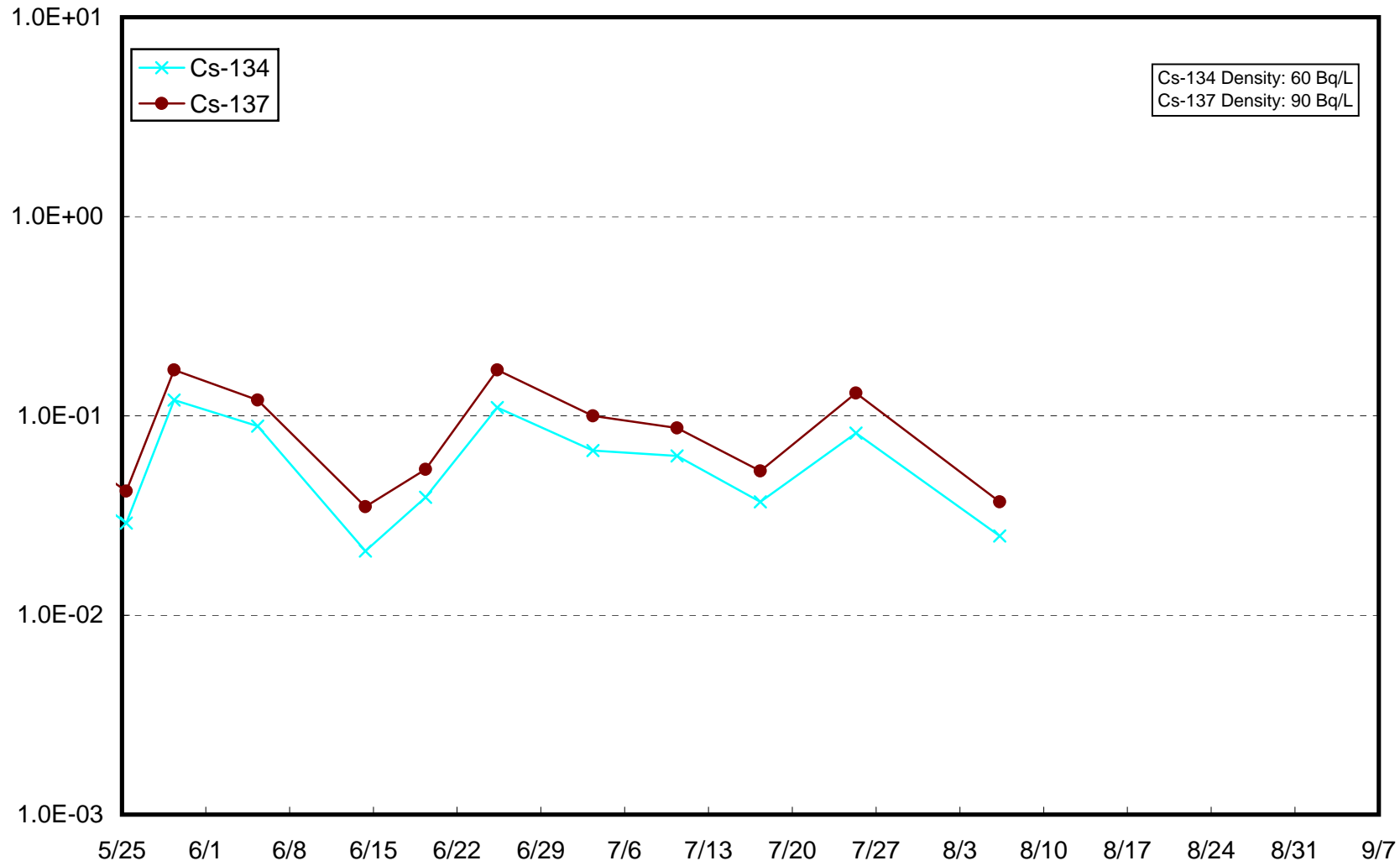
Radioactivity Density of the Seawater at 3km Offshore of Odaka Ward (T-14) Lower Layer (Bq/L)



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

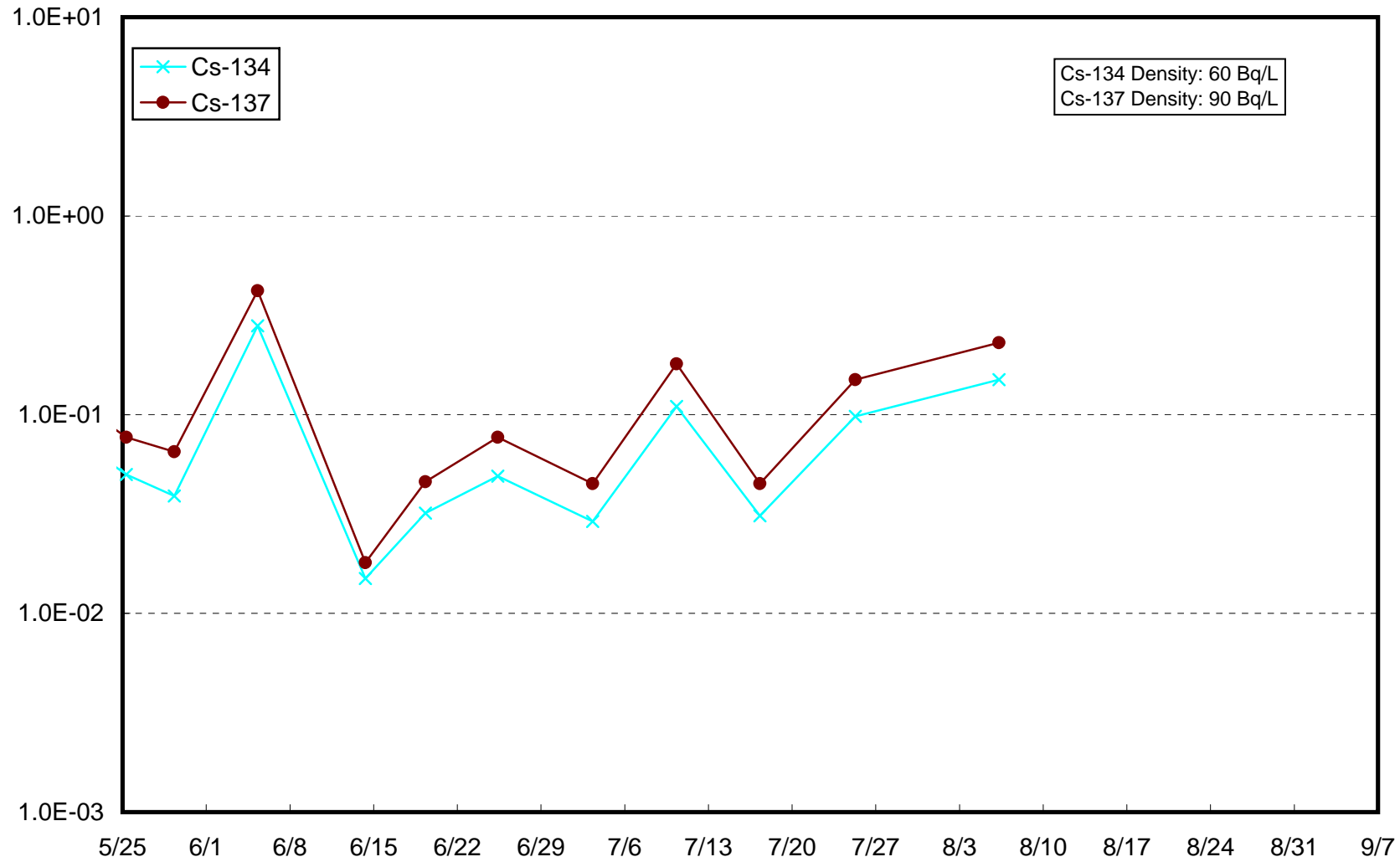


Radioactivity Density of the Seawater at 3km Offshore of Ukedo River (T-D1) Lower Layer (Bq/L)

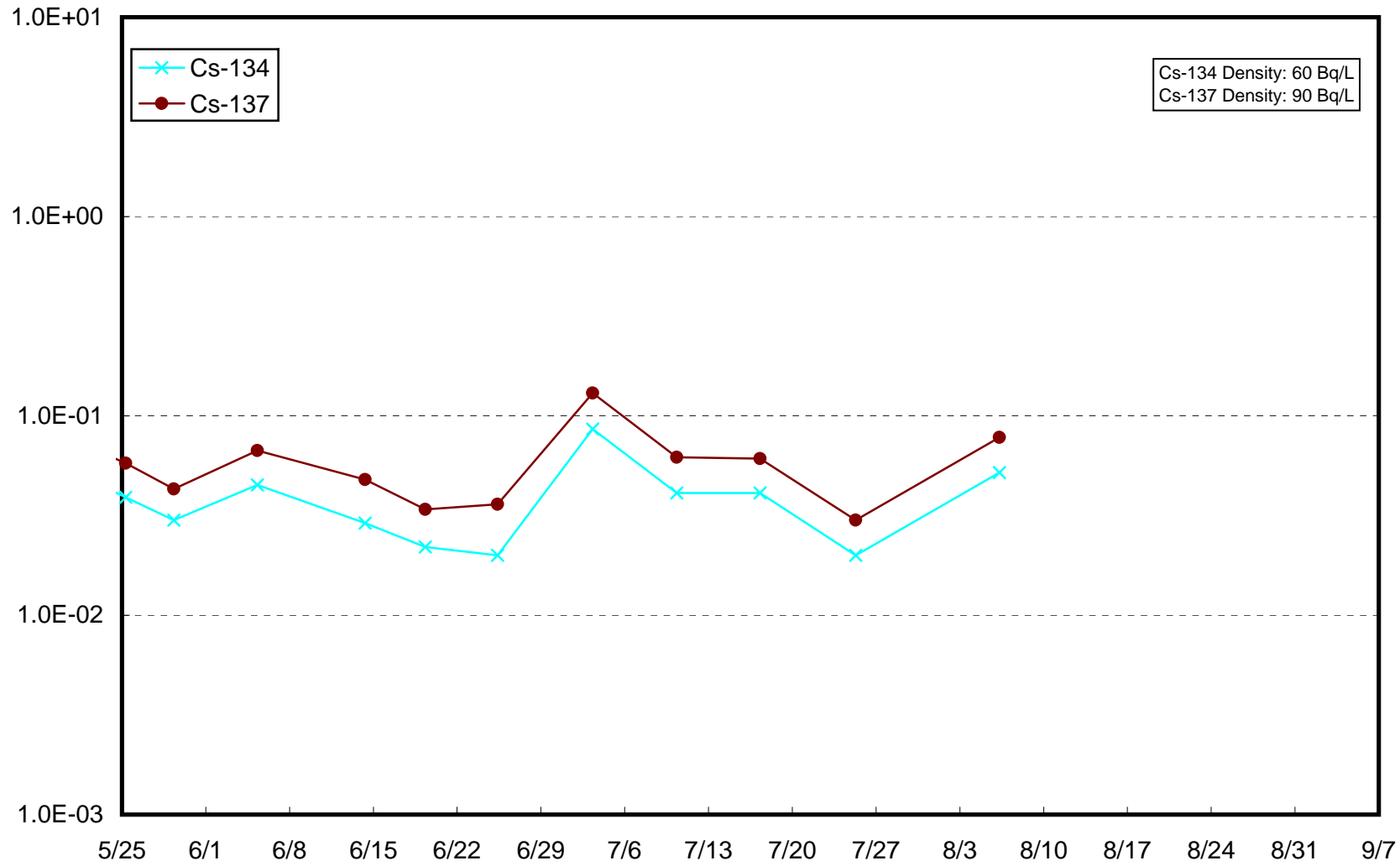




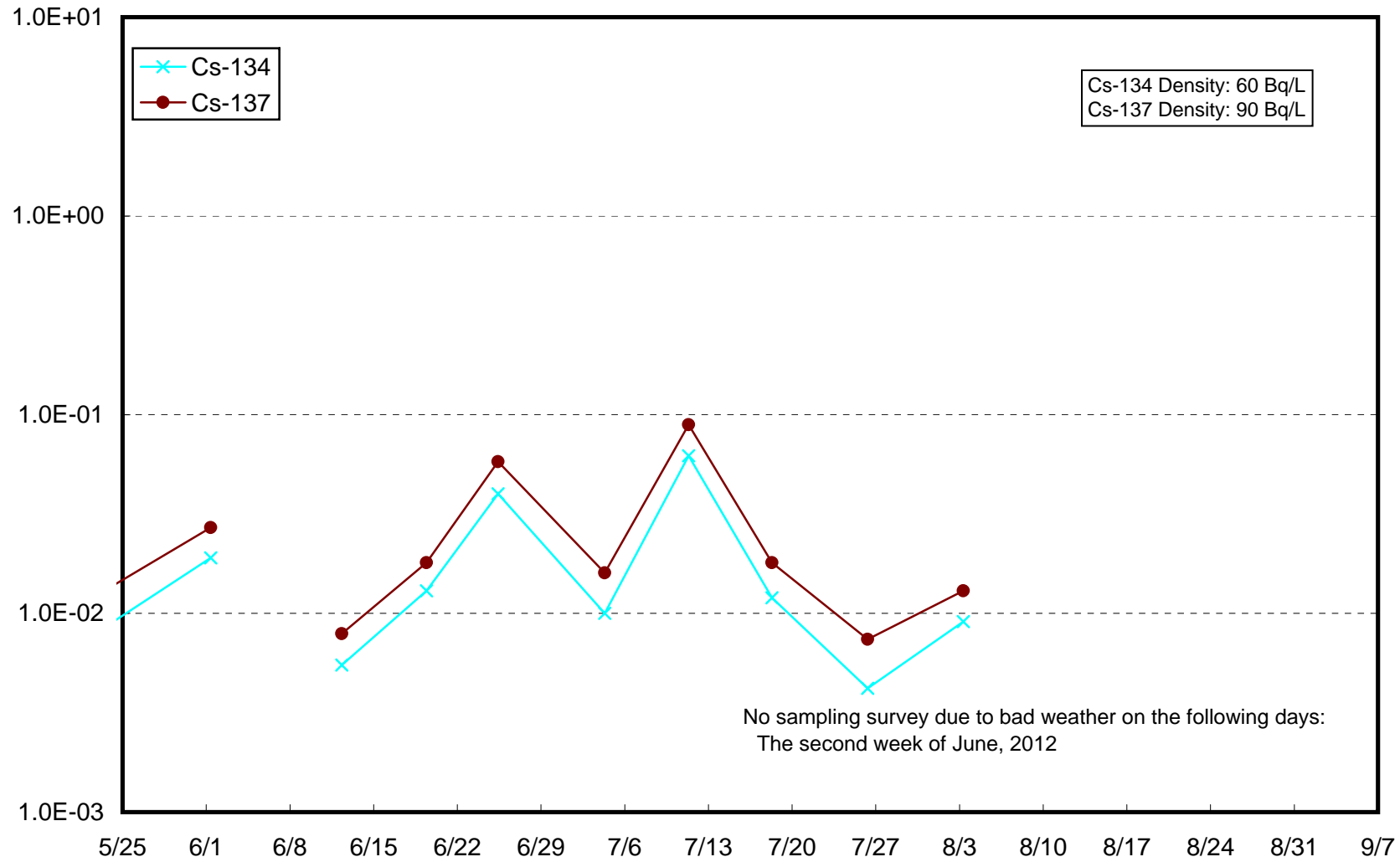
Radioactivity Density of the Seawater at 3km Offshore of Fukushima Daiichi NPS (T-D5) Upper Layer (Bq/L)



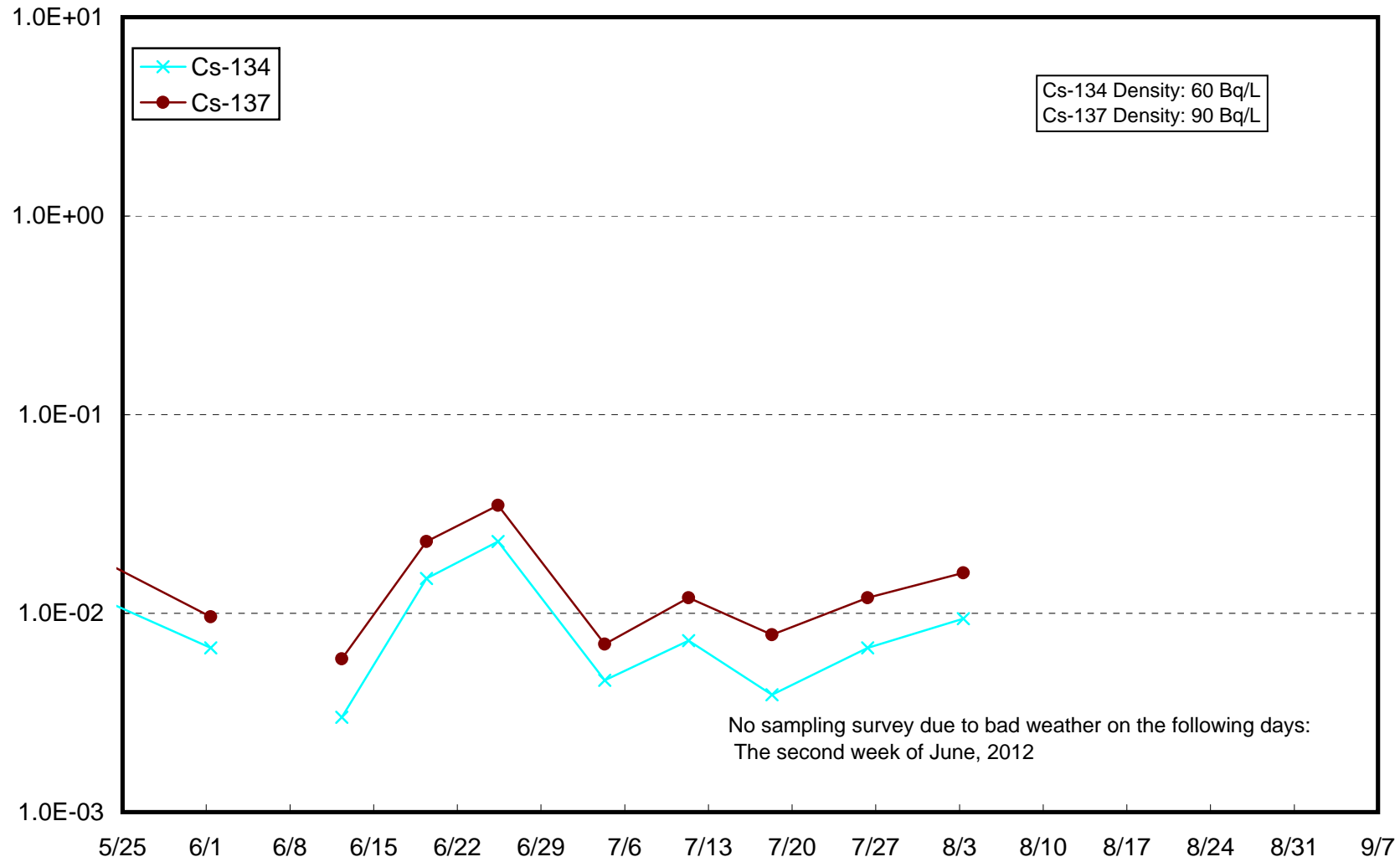
Radioactivity Density of the Seawater at 3km Offshore of Fukushima Daiichi NPS (T-D5) Lower Layer (Bq/L)



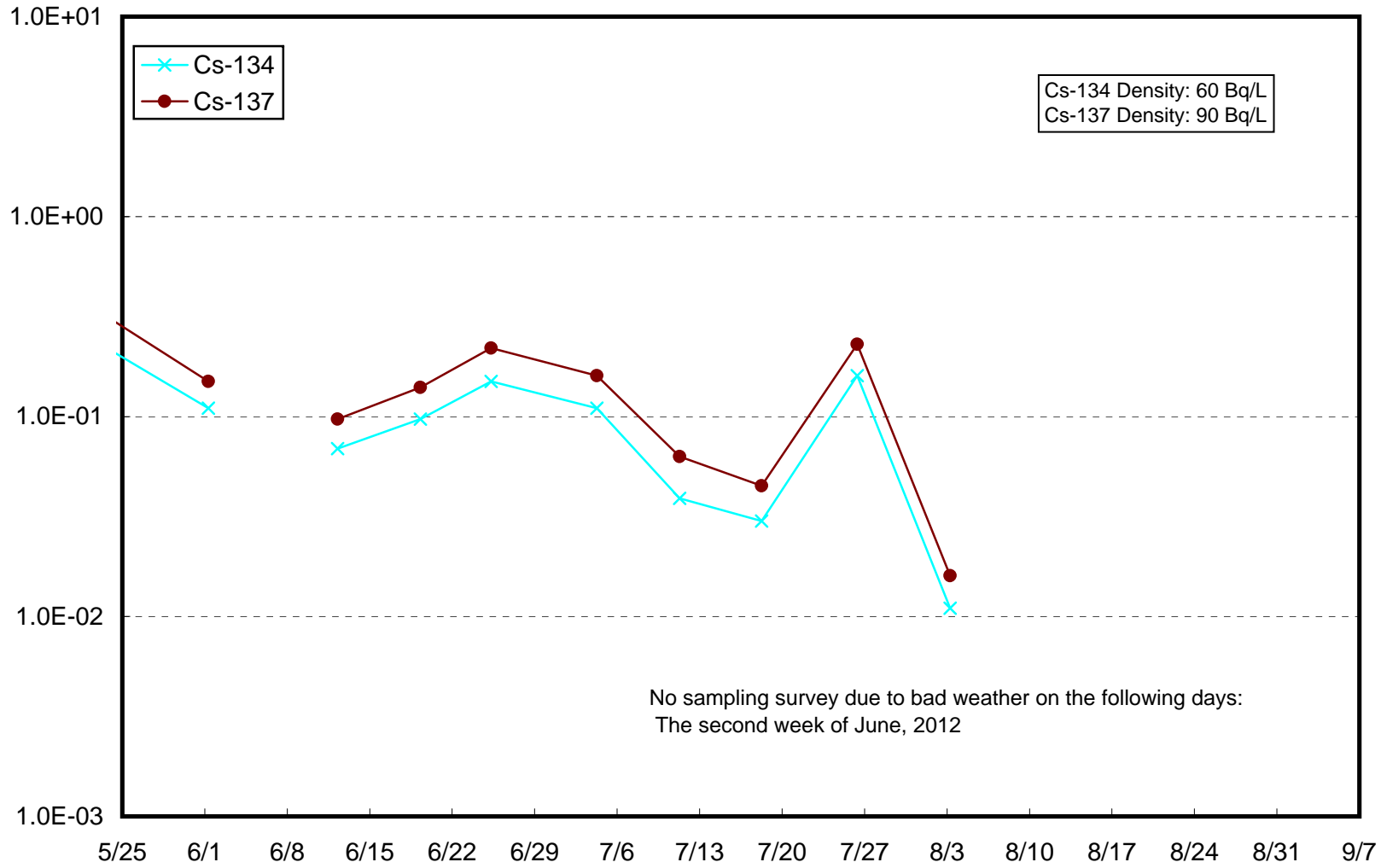
Radioactivity Density of the Seawater at 15km Offshore of Fukushima Daiichi NPS (T-5) Upper Layer (Bq/L)



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)

