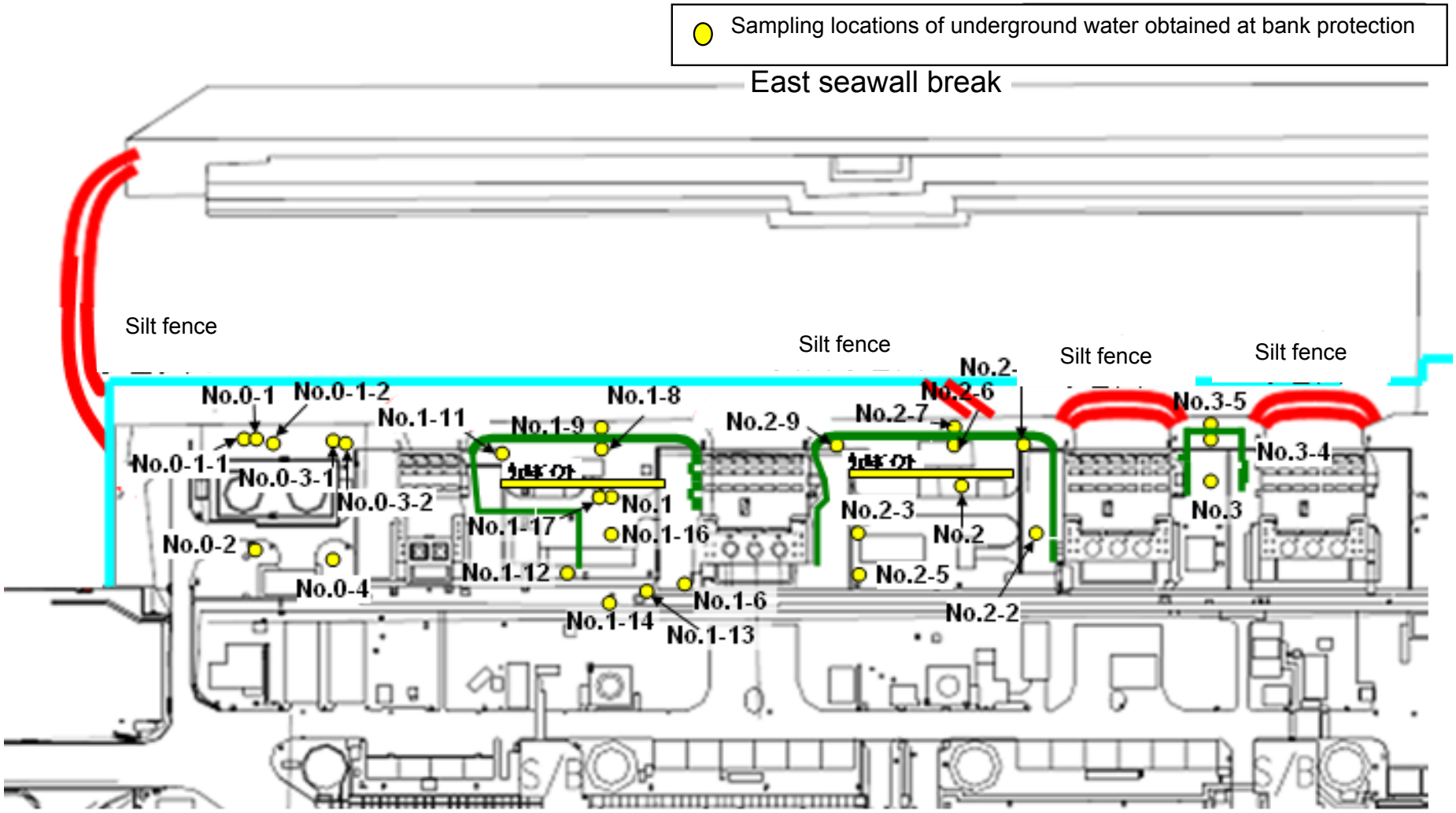
<Reference>
February 28, 2014
Tokyo Electric Power Company

# Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (Sampling Locations of Underground Water Obtained at Bank protection)



Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (1/4)
Underground Water Obtained at Bank Protection

Unit: Bq/L (exclude chloride)

| | Underground water observation hole No.0-1※ | Underground water observation hole No.0-1-2 | Underground water observation hole No.0-2 | Underground water observation hole No.0-3-1 | Underground water observation hole No.0-3-2 | Underground water observation hole No.0-4 | Underground water observation hole No.1 | Underground water observation hole No.1-6 | Underground water observation hole No.1-8 | Underground water observation hole No.1-9 | Underground water observation holeNo.1-11 | Underground water observation hole No.1-12 | Underground water observation hole No.1-14 | Underground water observation hole No.1-16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of sampling | Feb,23 | Feb,23 | Feb,23 | Feb,23 | Feb,24 | Feb,23 | Feb,24 | Feb,24 | Feb,24 | Feb,25 | Feb,24 | Feb,24 | Feb,24 | Feb,24 |
| Time of sampling | 11:52 | 11:00 | 10:20 | 10:40 | 9:30 | 9:25 | 10:44 | 10:43 | 11:03 | 7:13 | 10:11 | 9:27 | 9:45 | 9:46 |
| Chloride (unit: ppm) | — | — | — | — | — | — | — | — | — | 260 | — | — | — | — |
| Cs-134 (Approx. 2 years) | 7.9 | ND(0.41) | ND(0.40) | ND(0.40) | ND(0.42) | ND(0.42) | ND(0.37) | 2,700 | 18 | 8.7 | 0.58 | 2.7 | 0.96 | ND(3.5) |
| Cs-137 (Approx.30 years) | 20 | ND(0.51) | ND(0.42) | ND(0.54) | ND(0.45) | ND(0.43) | ND(0.47) | 6,600 | 49 | 24 | 1.7 | 7.8 | 2.8 | ND(1.8) |
| other: Mn-54（Approx.310 days） | ND | ND | ND | ND | 0.55 | ND | ND | 230 | 3.0 | ND | ND | ND | ND | ND |
| other: Co-60（Approx5 years） | ND | ND | ND | ND | ND | ND | ND | 630 | ND | ND | ND | ND | ND | ND |
| other | | | | | | | | | | | | | | |
| other | | | | | | | | | | | | | | |
| Gross β | 90 | ND(18) | ND(17) | ND(17) | ND(18) | ND(17) | 340 | 680,000 | 19,000 | 140 | ND(18) | 96 | 280 | 2,700,000 |
| H-3（Approx. 12 years） | 38,000 | 27,000 | 6,600 | ND(120) | 68,000 | 56,000＊1 | 220,000 | 27,000 | 7,200 | 310 | 12,000 | 32,000 | 3,300 | 11,000 |
| Sr-90 （Approx. 29 years） | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | Underground water observation hole No.1-17 | Groundwater pumped up from the well point (between Unit 1 and 2) | Underground water observation hole No.2 | Underground water observation hole No.2-2 | Underground water observation hole No.2-3 | Underground water observation hole No.2-5 | Underground water observation hole No.2-6 | Underground water observation hole No.2-7 | Groundwater pumped up from the well point (between Unit 2 and 3) | Underground water observation hole No.3 | Underground water observation hole No.3-4 | Underground water observation hole No.3-5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of sampling | Feb,24 | Feb,24 | | | | | Feb,25 | | | | | |
| Time of sampling | 10:29 | 10:05 | | | | | 9:26 | | | | | |
| Chloride (unit: ppm) | — | — | | | | | — | | | | | |
| Cs-134 (Approx. 2 years) | ND(0.43) | 1.4 | | | | | 5.0 | | | | | |
| Cs-137 (Approx.30 years) | ND(0.42) | 4.0 | | | | | 12 | | | | | |
| other: Mn-54（Approx.310 days） | ND | 4.4 | | | | | ND | | | | | |
| other: Co-60（Approx5 years） | ND | ND | | | | | ND | | | | | |
| other | | | | | | | | | | | | |
| other | | | | | | | | | | | | |
| Gross β | ND(18) | 280,000 | | | | | 2,200 | | | | | |
| H-3（Approx. 12 years） | 12,000 | 94,000 | | | | | 950 | | | | | |
| Sr-90 （Approx. 29 years） | — | — | | | | | — | | | | | |

＊Data announced this time is provided in a thick-frame. The other data was announced on February 24,25,26.
＊"ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.
＊ "-" indicates that the measurement was out of range.
※The results are for a reference, since the water was highly turbid. (measured after filtration.)
＊1 The highest dose among the results previously announced in the "Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection".

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (2/4)
Underground Water Obtained at Bank Protection

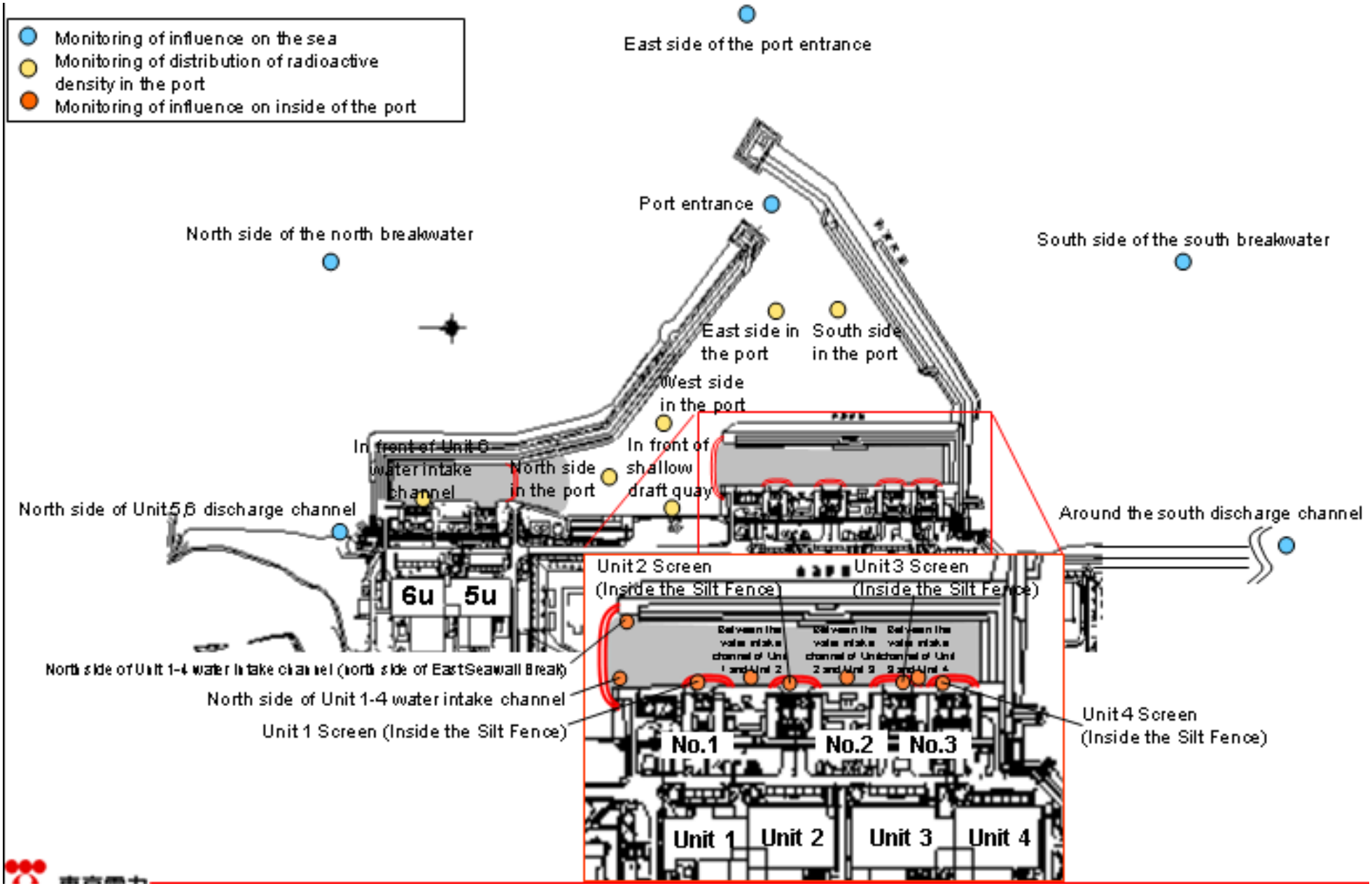
Unit: Bq/L (exclude chloride)

| | Underground water observation hole No.0-1 | Underground water observation hole No.0-1-2 | Underground water observation hole No.0-2 | Underground water observation hole No.0-3-1 | Underground water observation hole No.0-3-2 | Underground water observation hole No.0-4 | Underground water observation hole No.1 | Underground water observation hole No.1-6 | Underground water observation hole No.1-8 | Underground water observation hole No.1-9 | Underground water observation hole No.1-11 | Underground water observation hole No.1-12 | Underground water observation hole No.1-14 | Underground water observation hole No.1-16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of sampling | | | | | Feb,27 | | Feb,27 | Feb,27 | | Feb,27 | Feb,27 | Feb,27 | | Feb,27 |
| Time of sampling | | | | | 9:30 | | 11:10 | 11:04 | | 6:55 | 10:30 | 9:05 | | 9:22 |
| Chloride (unit: ppm) | | | | | — | | — | — | | 260 | — | — | | — |
| Cs-134 (Approx. 2 years) | | | | | ND(0.39) | | ND(0.40) | 3,000 *1 | | 2.4 | 0.65 | 3.6 | | ND(1.5) |
| Cs-137 (Approx.30 years) | | | | | ND(0.47) | | 0.65 | 7,600 *1 | | 6.0 | 2.2 | 9.9 | | ND(1.2) |
| other γ Mn-54 (Approx.310 days) | | | | | 0.45 | | ND | 200 | | ND | ND | ND | | ND |
| other γ Co-60 (Approx5 years) | | | | | ND | | ND | 560 | | ND | ND | ND | | ND |
| other γ | | | | | ND | | 4.1 | ND | | ND | ND | ND | | ND |
| other γ | | | | | ND | | ND | ND | | ND | ND | ND | | 8.4 |
| Gross β | | | | | ND(17) | | 370 | 590,000 | | 100 | 43 | 160 | | 1,900,000 |
| H-3 (Approx. 12 years) | | | | | Under analysis | | Under analysis | Under analysis | | Under analysis | Under analysis | Under analysis | | Under analysis |
| Sr-90 (Approx. 29 years) | | | | | — | | — | — | | — | — | — | | — |

| | Underground water observation hole No.1-17 | Groundwater pumped up from the well point (between Unit 1 and 2) | Underground water observation hole No.2 | Underground water observation hole No.2-2 | Underground water observation hole No.2-3 | Underground water observation hole No.2-5 | Underground water observation hole No.2-6 | Underground water observation hole No.2-7 | Underground water observation hole No.2-8 | Groundwater pumped up from the well point (between Unit 2 and 3) | Underground water observation hole No.3 | Underground water observation hole No.3-4 | Underground water observation hole No.3-5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of sampling | Feb,27 | | | | | | Feb,27 | | | | | | |
| Time of sampling | 10:54 | | | | | | 9:52 | | | | | | |
| Chloride (unit: ppm) | — | | | | | | — | | | | | | |
| Cs-134 (Approx. 2 years) | ND(0.46) | | | | | | 0.53 | | | | | | |
| Cs-137 (Approx.30 years) | 0.62 | | | | | | 0.97 | | | | | | |
| other γ Mn-54 (Approx.310 days) | ND | | | | | | ND | | | | | | |
| other γ Co-60 (Approx5 years) | ND | | | | | | ND | | | | | | |
| other γ | ND | | | | | | ND | | | | | | |
| other γ | ND | | | | | | ND | | | | | | |
| Gross β | 28 | | | | | | 1,900 | | | | | | |
| H-3 (Approx. 12 years) | Under analysis | | | | | | Under analysis | | | | | | |
| Sr-90 (Approx. 29 years) | — | | | | | | — | | | | | | |

* "ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.
* "-" indicates that the measurement was out of range.
* 1 The highest dose among the results previously announced in the "Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection".

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (Sampling Locations of Seawater)



Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (3/4
Underground Water Obtained at Bank Protection

| | 1F, North side of Unit 5,6 discharge channel | 1F, In front of Unit 6 water intake channel | 1F, In front of shallow draft quay | 1F, North side of Unit 1-4 water intake channel | 1F, North side of Unit 1-4 water intake channel (north side of East Seawall Break) | 1F, Unit 1 Screen (Inside the Silt Fence) | 1F, Between the water intake channel of Unit 1 and Unit 2 (surface layer) | 1F, Between the water intake channel of Unit 1 and Unit 2 (lower layer) | 1F, Unit 2 Screen (Inside the Silt Fence) | 1F, Between the water intake channel of Unit 2 and Unit 3 | 1F, Unit 3 Screen (Inside the Silt Fence) | 1F, Between the water intake channel of Unit 3 and Unit 4 | ※ Density Limit Specified by the Reactor Regulation * | WHO Guidelines for drinking-water quality |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Sampling | Feb,24 | Feb,24 | Feb,24 | Feb,25 | Feb,24 | Feb,24 | Feb,25 | Feb,25 | Feb,24 | Feb,24 | Feb,24 | Feb,24 | | |
| Time of sampling | 6:25 | 6:16 | 6:14 | 7:26 | 6:20 | 6:40 | 7:14 | 7:14 | 6:37 | 6:33 | 6:24 | 6:27 | | |
| Cs-134(Approx. 2 years) | ND(0.76) | ND(2.1) | ND(3.4) | 18 | 6.6 | 15 | 14 | 13 | 17 | 12 | 7.9 | 10 | 60 | 10 |
| Cs-137(Approx.30 years) | ND(0.85) | ND(2.3) | 3.1 | 44 | 13 | 40 | 39 | 30 | 39 | 31 | 20 | 25 | 90 | 10 |
| Gross β | 13 | ND(21) | ND(21) | 410 | 120 | 240 | 490 | 130 | 280 | 160 | 120 | 110 | | |
| H-3 (Approx. 12 years) | ND(1.5) | 8.7 | 7.2 | 1,300 | 130 | 610 | 1,200 | 200 | 550 | 330 | 200 | 200 | 60,000 | 10,000 |
| Sr-90（Approx. 29 years） | — | — | — | — | — | — | — | — | — | — | — | — | 30 | 10 |

Unit：Bq/L

| | 1F, Unit 4 Screen (Inside the Silt Fence) | 1F, Around the south discharge channel | 1F, Port entrance | 1F, East side in the port | 1F, West side in the port | 1F, North side in the port | 1F, South side in the port | North side of the north breakwater | Northeast side of the port entrance | East side of the port entrance | Southeast side of the port entrance | South side of the south breakwater | ※ Density Limit Specified by the Reactor Regulation * | WHO Guidelines for drinking-water quality |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Sampling | Feb,24 | Feb,24 | | | | | | | | | | | | |
| Time of sampling | 6:22 | 5:30 | | | | | | | | | | | | |
| Cs-134(Approx. 2 years) | 5.5 | ND(0.76) | | | | | | | | | | | 60 | 10 |
| Cs-137(Approx.30 years) | 17 | ND(0.80) | | | | | | | | | | | 90 | 10 |
| Gross β | 57 | 13 | | | | | | | | | | | | |
| H-3 (Approx. 12 years) | ND(120) | ND(1.5) | | | | | | | | | | | 60,000 | 10,000 |
| Sr-90（Approx. 29 years） | — | — | | | | | | | | | | | 30 | 10 |

＊Date announced this time is provided in a thick-frameThe others were announced on February 25,26
＊"ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses
＊ "-" indicates that the measurement was out of range.

※Density Limit Specified by the Rule for the Installation, Operation, etc. of Commercial Nuclear Power Reactors (the density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2 [the amount is converted from Bq/cm3 to Bq/L]).

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (4/4)
Underground Water Obtained at Bank Protection

| | 1F, North side of Unit 5,6 discharge channel | 1F, In front of Unit 6 water intake channel | 1F, In front of shallow draft quay | 1F, North side of Unit 1-4 water intake channel | 1F, North side of Unit 1-4 water intake channel (north side of East Seawall Break) | 1F, Unit 1 Screen (Inside the Silt Fence) | 1F, Between the water intake channel of Unit 1 and Unit 2 (surface layer) | 1F, Between the water intake channel of Unit 1 and Unit 2 (lower layer) | 1F, Unit 2 Screen (Inside the Silt Fence) | 1F, Between the water intake channel of Unit 2 and Unit 3 | 1F, Unit 3 Screen (Inside the Silt Fence) | 1F, Between the water intake channel of Unit 3 and Unit 4 | Density Limit Specified by the Reactor Regulation * ※ | WHO Guidelines for drinking-water quality |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Sampling | | | | Feb,27 | | | Feb,27 | Feb,27 | | | | | | |
| Time of sampling | | | | 6:46 | | | 6:50 | 6:50 | | | | | | |
| Cs-134(Approx. 2 years) | | | | 14 | | | 17 | 11 | | | | | 60 | 10 |
| Cs-137(Approx.30 years) | | | | 46 | | | 35 | 27 | | | | | 90 | 10 |
| Gross β | | | | 870 | | | 710 | 150 | | | | | | |
| H-3 (Approx. 12 years) | | | | Under analysis | | | Under analysis | Under analysis | | | | | 60,000 | 10,000 |
| Sr-90（Approx. 29 years） | | | | — | | | — | — | | | | | 30 | 10 |

| | 1F, Unit 4 Screen (Inside the Silt Fence) | 1F, Around the south discharge channel | 1F, Port entrance | 1F, East side in the port | 1F, West side in the port | 1F, North side in the port | 1F, South side in the port | North side of the north breakwater | Northeast side of the port entrance | East side of the port entrance | Southeast side of the port entrance | South side of the south breakwater | Density Limit Specified by the Reactor Regulation * ※ | WHO Guidelines for drinking-water quality |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Sampling | | | | | | | | Feb,26 | Feb,26 | Feb,26 | Feb,26 | Feb,26 | | |
| Time of sampling | | | | | | | | 10:03 | 9:59 | 10:10 | 10:21 | 10:16 | | |
| Cs-134(Approx. 2 years) | | | | | | | | ND(0.66) | ND(0.74) | ND(0.78) | ND(0.73) | ND(0.68) | 60 | 10 |
| Cs-137(Approx.30 years) | | | | | | | | ND(0.53) | ND(0.58) | ND(0.72) | ND(0.67) | ND(0.73) | 90 | 10 |
| Gross β | | | | | | | | ND(15) | ND(15) | ND(15) | ND(15) | ND(15) | | |
| H-3 (Approx. 12 years) | | | | | | | | Under analysis | Under analysis | Under analysis | Under analysis | Under analysis | 60,000 | 10,000 |
| Sr-90（Approx. 29 years） | | | | | | | | — | — | — | — | — | 30 | 10 |

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

※Density Limit Specified by the Rule for the Installation, Operation, etc. of Commercial Nuclear Power Reactors (the density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2 [the amount is converted from Bq/cm3 to Bq/L])

## <Reference> The Highest Dose Until the Previous Measurement (Groundwater Obtained at Bank Protection)

Unit: Bq/L

| | | Underground water observation hole No.0-1 | Underground water observation hole No.0-1-1 | Underground water observation hole No.0-1-2 | Underground water observation hole No.0-2 | Underground water observation hole No.0-3-1 | Underground water observation hole No.0-3-2 | Underground water observation hole No.0-4 | Underground water observation hole No.1 | Underground water observation hole No.1-1 | Underground water observation hole No.1-2 | Underground water observation hole No.1-3 | Underground water observation hole No.1-4 | Underground water observation hole No.1-5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Cs-134(Approx. 2 years) | 7.9*2 <2/23> | ND | ND | 0.61 〔10/13〕 | 0.44 〔11/24〕 | 0.82 <1/14> | ND | 13 〔8/29〕 | 1.9 〔7/8〕 | 11,000 〔7/9〕 | 10 〔9/2〕 | 1.5 〔7/8〕 | 310 〔8/5〕 |
| | Cs-137(Approx.30 years) | 20*2 <2/23> | 0.58 〔12/7〕 | 0.51 〔11/17〕 | 2.2 <1/12> | 0.86 〔11/20〕 | 2.1 <1/14> | 1.4 <1/12> | 31 〔8/29〕 | 3.6 〔7/8〕 | 22,000 〔7/9〕 | 24 〔9/2〕 | 3.6 〔7/8〕 | 650 〔8/5〕 |
| other γ | Ru-106(Approx.370days) | ND | ND | ND | ND | ND | ND | ND | 26 〔5/24〕 | 7.9 〔7/8〕 | 160 〔8/15〕 | 17 〔7/22〕〔8/8〕 | 3.1 〔8/8〕 | ND |
| | Mn-54(Approx.310days) | ND | ND | ND | ND | ND | 0.64 <2/20> | ND | ND | 1.0 〔7/5〕 | 62 〔7/5〕 | ND | ND | ND |
| | Co-60(Approx. 5 years) | ND | ND | ND | ND | ND | ND | ND | 0.50 〔7/19〕 | ND | 3.1 〔7/8〕 | ND | ND | ND |
| | Sb-125(Approx. 3 years) | ND | ND | ND | ND | ND | ND | ND | 1.7 〔7/11〕 | ND | 250 〔7/15〕 | 1.4 〔7/12〕〔8/26〕 | ND | 12 〔8/8〕 |
| | Gross β | 300 〔8/22〕 | 21 〔12/7〕 | 21 〔11/10〕 | 87 〔10/13〕 | ND | 67*1 〔12/11〕 | 29 〔12/29〕 | 1,900 〔5/24〕 | 4,400 〔7/8〕 | 900,000 〔7/5〕〔7/9〕 | 160,000 〔8/12〕〔8/15〕 | 380 〔8/19〕 | 56,000 〔8/5〕 |
| | H-3 (Approx. 12 years) | 45,000 〔8/29〕 | 18,000 〔12/7〕 | 74,000 [12/15] <1/19> | 6,800 <2/16> | ND | 76,000 <2/6> | 52,000 <2/16> | 500,000 〔5/24〕〔6/7〕 | 630,000 〔7/8〕 | 430,000 〔9/16〕 | 290,000 〔7/12〕 | 98,000 〔7/11〕 | 72,000 〔8/15〕 |
| | Sr-90(Approx. 29 years) | 140 〔8/8〕 | Under analysis | Under analysis | 0.73 〔9/2〕 | Under analysis | Under analysis | Under analysis | 1,300 〔8/22〕 | 2,300 〔6/28〕 | 5,000,000 〔7/5〕 | 130,000 〔8/8〕 | 200 〔7/8〕 | 5,100 〔8/22〕 |

Unit: Bq/L

| | | Underground water observation hole No.1-6 | Underground water observation hole No.1-8 | Underground water observation hole No.1-9 | Underground water observation hole No.1-10 | Underground water observation hole No.1-11 | Underground water observation hole No.1-12 | Underground water observation hole No.1-13 | Underground water observation hole No.1-14 | Underground water observation hole No.1-16 | Underground water observation hole No.1-17 | Groundwater pumped up from the well point (between Unit 1 and 2) | Underground water observation hole No.2 | Underground water observation hole No.2-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Cs-134(Approx. 2 years) | 2,900 <2/17> <2/20> | 47 〔11/25〕 | 170 〔9/3〕 | - | 1.1 <1/13> | 74 〔10/21〕 | 37,000 <2/13> | 88*2 <2/27> | 3.1*1 〔12/13〕 | 1.2 〔12/5〕 | 110 〔9/23〕 | 0.88 <2/26> | 0.66 〔9/1〕 |
| | Cs-137(Approx.30 years) | 7,300 <2/17> | 110 〔11/25〕 | 380 〔9/3〕 | - | 2.8 <1/13> | 170 〔10/21〕 | 93,000 <2/13> | *2 <2/27> | 4.7 <2/17> | 1.0 <2/20> | 250 〔9/23〕 | 2.5 <2/26> | 1.1 〔8/29〕〔9/1〕 |
| other γ | Ru-106(Approx.370days) | ND | ND | ND | - | ND | 5.4 〔10/28〕 | ND | ND | 9.2 〔10/28〕 | 4.1 〔12/12〕 | 25 〔9/2〕 | ND | ND |
| | Mn-54(Approx.310days) | 320 <2/13> <2/17> | 12 <2/3> | ND | - | ND | ND | ND | ND | ND | ND | 4.4 <2/24> | ND | ND |
| | Co-60(Approx. 5 years) | 830 <2/20> | 1.3 <2/3> | ND | - | ND | 0.51 〔10/24〕 | ND | ND | 0.9 〔11/7〕 | 0.61 〔11/25〕 | ND | ND | ND |
| | Sb-125(Approx. 3 years) | ND | ND | ND | - | ND | 61 〔10/21〕 | ND | ND | 11 〔12/5〕 | 2.1 〔11/25〕 | ND | ND | ND |
| | Gross β | 760,000 <2/17> | 59,000 <2/3> | 2,100*2 〔11/17〕 | 78*2 <1/27> | 2,300 〔12/26〕 | 730 〔10/21〕 | 260,000 <2/12> <2/13> | 730 <2/17> | 3,100,000 <1/20> <1/30> <2/3> | 130 〔12/2〕〔12/23〕 | 700,000 〔9/23〕 | 1,700 〔7/8〕 | 380 〔7/29〕 |
| | H-3 (Approx. 12 years) | 110,000*2 <2/6> | 12,000 <1/6> <2/3> | 860*2 〔11/14〕 | 270,000*2 <1/27> | 85,000 〔9/13〕 | 440,000 〔10/31〕 | 88,000 <2/12> | 23,000 <2/13> | 43,000 〔9/26〕 | 32,000 <1/20> | 460,000 〔8/19〕 | 1,000 <2/23> | 440 〔8/26〕 |
| | Sr-90(Approx. 29 years) | - | 1,300 〔9/16〕 | 170 〔9/3〕 | — | 17 〔9/13〕 | Under analysis | Under analysis | Under analysis | Under analysis | Under analysis | — | 54 〔5/31〕 | 5.9 〔7/25〕 |

Unit: Bq/L

| | | Underground water observation hole No.2-2 | Underground water observation hole No.2-3 | Underground water observation hole No.2-5 | Underground water observation hole No.2-6 | Underground water observation hole No.2-7 | Underground water observation hole No.2-8 | Underground water observation hole No.2-9 | Groundwater pumped up from the well point (between Unit 2 and 3) | Underground water observation hole No.3 | Underground water observation hole No.3※ | Underground water observation hole No.3-4 | Underground water observation hole No.3-5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Cs-134(Approx. 2 years) | 15 <2/12> | 2.2 <2/26> | 25 <2/12> | 5.0 <2/25> | 3.5 <2/23> | - | - | 1.1 〔12/12〕 | 3.5 〔7/25〕 | 1.2 〔7/25〕〔8/8〕 | 1.9 <1/8> | 64 <1/15> |
| | Cs-137(Approx.30 years) | 38 <2/12> | 5.5 <2/26> | 62 <2/12> | 12 <2/25> | 9.0 <2/23> | - | 0.58*2 <2/11> | 2.6 <2/16> | 5.9 〔8/8〕 | 2.6 〔8/1〕 | 4.5 <2/19> | 170 <1/15> |
| other γ | Ru-106(Approx.370days) | ND | ND | ND | ND | ND | - | 6.5*2 <2/11> | ND | ND | ND | ND | - |
| | Mn-54(Approx.310days) | ND | 0.29 〔12/6〕 | 0.94 <1/8> | ND | ND | - | - | ND | ND | ND | 0.54 〔10/30〕 | - |
| | Co-60(Approx. 5 years) | ND | ND | ND | ND | ND | - | - | ND | ND | ND | ND | - |
| | Sb-125(Approx. 3 years) | ND | ND | 30 <2/12> | ND | ND | - | - | ND | 1.6 <1/1> | ND | ND | - |
| | Gross β | 540 <1/29> | 1,500 〔12/6〕 | 150,000 <2/12> | 3,200 〔12/5〕 | 500 <2/26> | 1,000*2 <2/26> | 1,700*2 <2/7> | 240,000 〔12/12〕 | 1,400 〔7/11〕 | 180 〔8/1〕 | 17 <2/12> | 69 <1/29> |
| | H-3 (Approx. 12 years) | 660 <1/8> | 1,700 〔12/6〕 | 6,300 〔12/4〕 | 1,200 〔11/24〕〔11/27〕 | 1,100 <1/17> | 600*2 <2/26> | 13,000*2 <2/7> | 5,100 〔12/6〕 | 3,200 〔H24. 12/12〕 | 460 〔8/1〕 | 170 〔9/18〕 | 170 <1/8> |
| | Sr-90(Approx. 29 years) | Under analysis | Under analysis | Under analysis | Under analysis | Under analysis | - | - | - | 8.3 〔H24. 12/12〕 | 4.4 〔7/23〕 | ND | - |

● Since some samples are still under analysis,the highest dose of the Strontium-90 is among those previously announce

＊1 Analysis result of pumped water

＊2 The results are for a reference, since the water was highly turbid. (measured after filtration

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

※* "*" is provided next to the name of the holes where the sampling could not be performed due to the chemical injection of ground improvement.

# <Reference> The Highest Dose Until the Previous Measurement* (Seawater)

Unit: Bq/LL

| | 1F, North side of Unit 5,6 discharge channel | 1F, In front of Unit 6 water intake channel | 1F, In front of shallow draft quay | 1F, North side of Unit 1-4 water intake channel | 1F, North side of Unit 1-4 water intake channel (north side of East Seawall Break) | 1F, Unit 1 Screen (Inside the Silt Fence) | 1F, Between the water intake channel of Unit 1 and Unit 2 (surface layer) | 1F, Between the water intake channel of Unit 1 and Unit 2 (lower layer) | 1F, Unit 2 Screen (Inside the Silt Fence) | 1F, Between the water intake channel of Unit 2 and Unit 3 | 1F, Unit 3 Screen (Inside the Silt Fence) | 1F, Between the water intake channel of Unit 3 and Unit 4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cs-134(Approx. 2 years) | 1.8 〔6/21〕 | 2.8 〔12/2〕 | 5.3 〔8/5〕 | 89 〔10/10〕 | 32 〔10/11〕 | 73 〔10/10〕 | 87 〔10/10〕 | 93 〔10/10〕 | 370 〔10/9〕 | 52 〔12/21〕 | 350 〔7/15〕 | 28 〔9/16〕 |
| Cs-137(Approx.30 years) | 3.3 〔6/26〕 | 5.8 〔12/2〕 | 8.6 〔8/5〕 | 190 〔10/10〕 | 73 〔10/11〕 | 170 〔10/10〕 | 200 〔10/10〕 | 200 〔10/10〕 | 830 〔10/9〕 | 110 〔10/11〕〔12/21〕 | 770 〔7/15〕 | 53 〔12/16〕 |
| Gross β | 17 <1/6> | 46 〔8/19〕 | 40 〔7/3〕 | 1,400 〔11/7〕 | 320 〔8/12〕 | 740 〔10/28〕 | 1,200 〔12/8〕 | 450 〔7/16〕 | 1,700 〔10/9〕 | 480 〔10/7〕 | 1,000 〔7/15〕 | 390 〔8/12〕 |
| H-3 (Approx. 12 years) | 8.6 〔6/26〕 | 24 〔8/19〕 | 340 〔6/26〕 | 4,800 〔11/7〕 | 510 〔9/2〕 | 2,800 〔10/28〕 | 2,800 〔12/8〕 | 1,600 〔9/1〕 | 2,100 〔10/28〕 | 1,200 〔10/7〕 | 410 〔9/2〕 | 650 〔8/12〕 |
| Sr-90（Approx. 29 years） | 5.8 〔6/26〕※1 | — | 7.4 〔6/26〕※1 | 720 〔9/22〕 | 220 〔8/19〕 | 480 〔10/14〕 | 480 〔8/22〕 | 290 〔10/20〕 | 430 〔10/14〕 | 340 〔10/14〕 | 120 〔9/23〕 | 190 〔9/23〕 |

単位：Bq/L

| | 1F, Unit 4 Screen (Inside the Silt Fence) | 1F, Around the south discharge channel | 1F, Port entrance | 1F, East side in the port | 1F, West side in the port | 1F, North side in the port | 1F, South side in the port | North side of the north breakwater | Northeast side of the port entrance | East side of the south breakwater | Southeast side of the north breakwater | South side of the south breakwater |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cs-134(Approx. 2 years) | 62 〔9/16〕 | ND | 3.3 〔12/24〕 | 3.3 〔10/17〕 | 4.4 〔12/24〕 | 5.0 〔12/2〕 | 3.5 〔10/17〕 | ND | ND | ND | ND | ND |
| Cs-137(Approx.30 years) | 140 〔9/16〕 | 3.0 〔7/15〕 | 7.3 〔10/11〕 | 9.0 〔10/17〕 | 10 〔12/24〕 | 8.4 〔12/2〕 | 7.8 〔10/17〕 | ND | ND | 1.6 〔10/18〕 | ND | ND |
| Gross β | 360 〔10/7〕 | 15 <1/13> | 69 〔8/19〕 | 74 〔8/19〕 | 60 〔7/4〕 | 69 〔8/19〕 | 79 〔8/19〕 | ND | ND | ND | ND | ND |
| H-3 (Approx. 12 years) | 400 〔8/12〕〔10/7〕 | 1.9 〔11/25〕 | 68 〔8/19〕 | 67 〔8/19〕 | 59 〔8/19〕 | 52 〔8/19〕 | 60 〔8/19〕 | 〔8/14〕 | ND | 6.4 〔10/8〕 | ND | ND |
| Sr-90（Approx. 29 years） | 130 〔9/23〕 | 0.36 〔6/26〕※1 | 49 〔8/19〕 | — | — | — | — | — | — | — | — | — |

※ The highest result announced in "Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection" or the other handouts is provided
As for "1F, North side of Unit 1-4 water intake channel", the data is obtained since January 14, 2013. For the other locations, the data is obtained since June 14.
● Since some samples are still under analysis, the highest dose of the Strontium-90 is among those previously announced
※1 Since reanalysis is ongoing, the figures are just for a reference.

＊ "ND" indicates that the measurement result is below the detection limit.
＊ Date of sampling is provided in parentheses. ( ): 2013, < >: 2014
＊"-" indicates that the measurement was out of range.

**[Reference] Standard values**

単位：Bq/L

| | Cs-134 | Cs-137 | H-3 | Sr-90 |
|---|---|---|---|---|
| Density Limit Specified by the Rule for the Installation, Operation, etc. of Commercial Nuclear Power Reactors (the density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2) | 60 | 90 | 60,000 | 30 |
| WHO Guidelines for drinking-water quality | 10 | 10 | 10,000 | 10 |