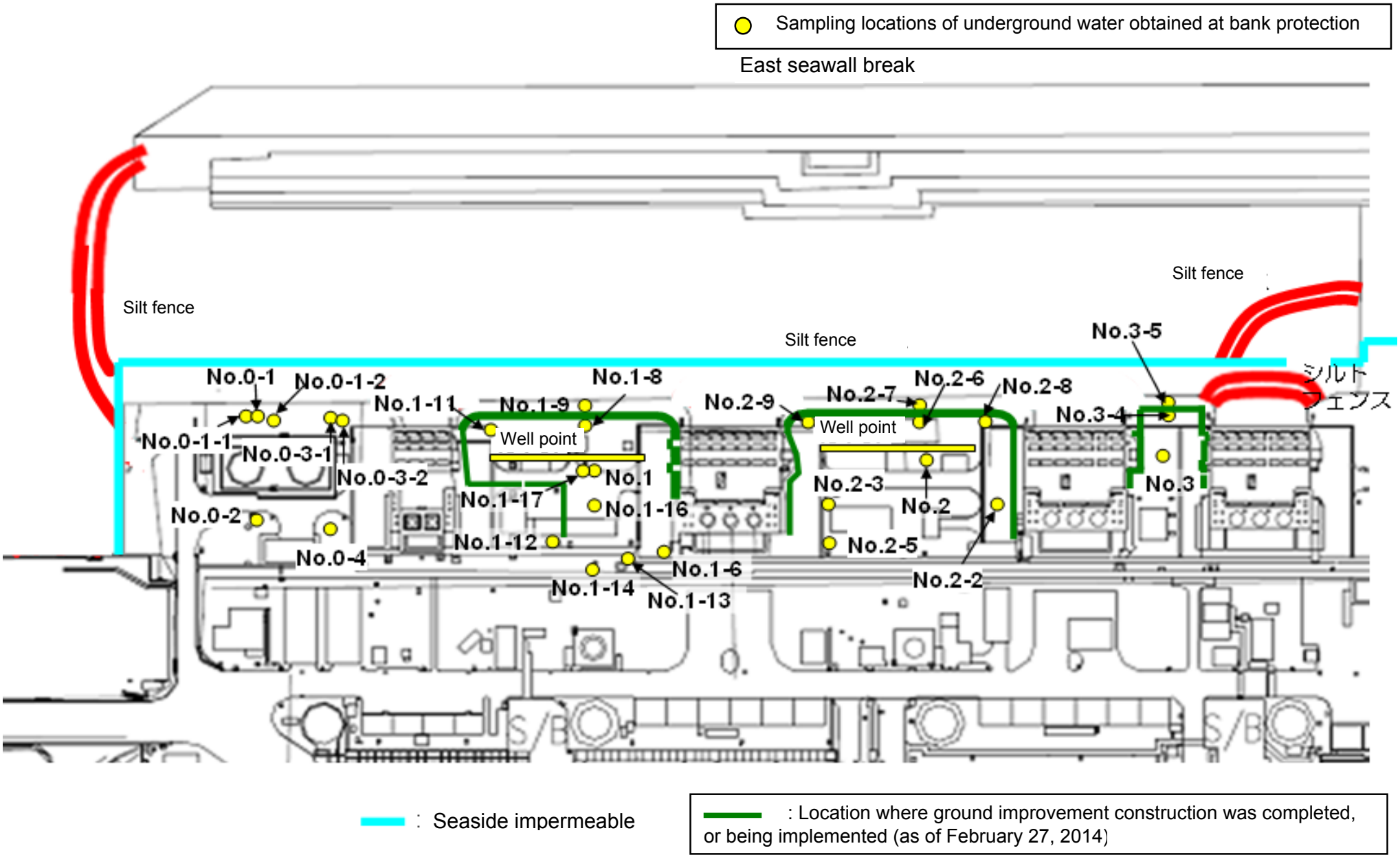
<Reference>
March 19, 2014
Tokyo Electric Power Company

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 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										Mar 16, 2014				
Time of sampling										6:43 AM				
Chloride (unit: ppm)										270				
Cs-134 (Approx. 2 years)										5.8				
Cs-137 (Approx.30 years)										17				
The other γ														
Gross β										98				
H-3 (Approx. 12 years)										240				
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													
Time of sampling													
Chloride (unit: ppm)													
Cs-134 (Approx. 2 years)													
Cs-137 (Approx.30 years)													
The other γ													
Gross β													
H-3 (Approx. 12 years)													
Sr-90（Approx. 29 years）													

* Data announced this time is provided in a thick-frame. The other data was announced on March 17.
* "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.

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

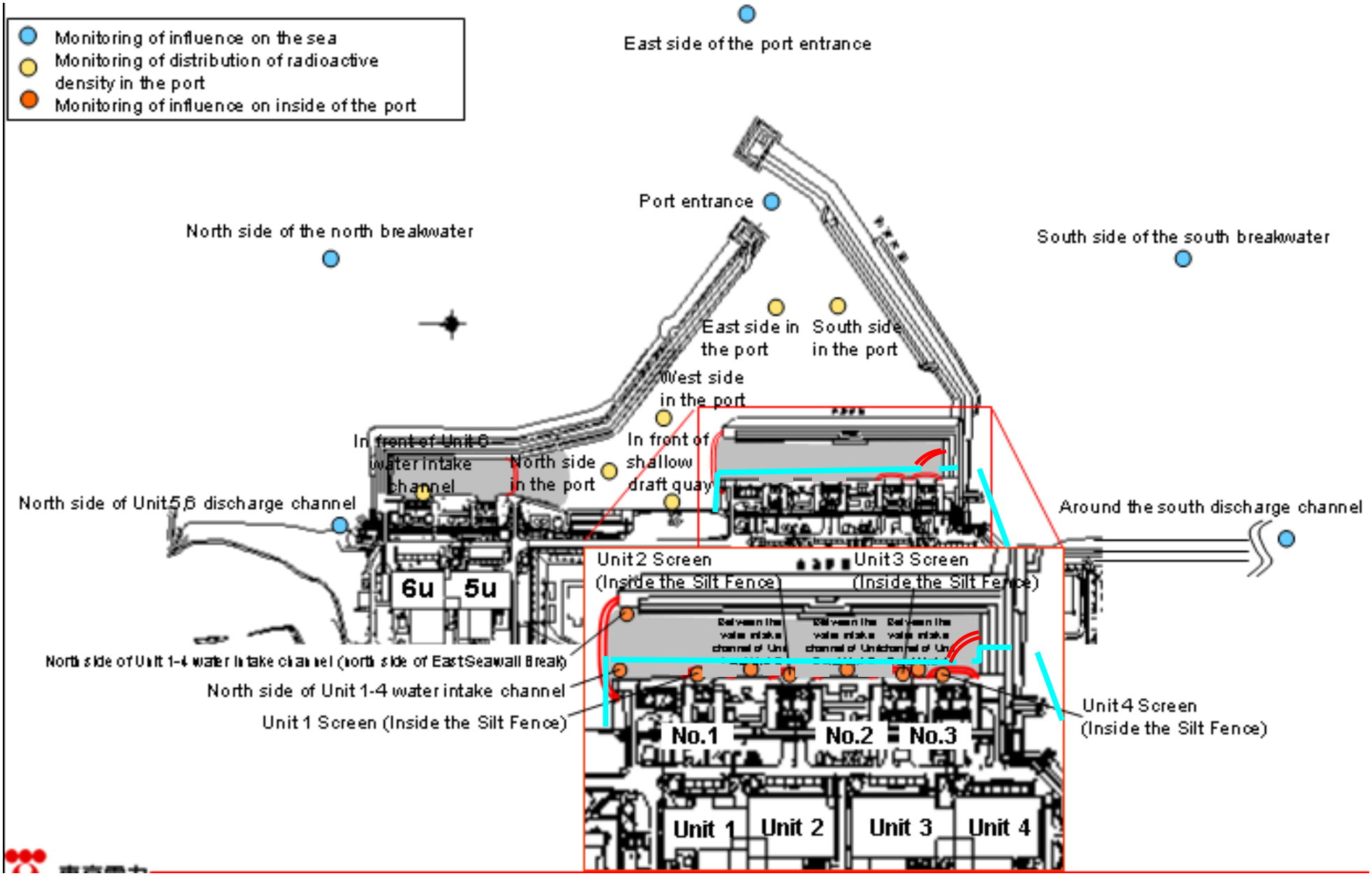
Unit: Bq/L (exclude chloride)

	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										Mar 18, 2014				
Time of sampling										6:55 AM				
Chloride (unit: ppm)										290				
Cs-134 (Approx. 2 years)										1.9				
Cs-137 (Approx.30 years)										6.3				
The other γ														
Gross β										68				
H-3 (Approx. 12 years)										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							Mar 18, 2014						
Time of sampling							9:46 AM						
Chloride (unit: ppm)							-						
Cs-134 (Approx. 2 years)							ND(0.40)						
Cs-137 (Approx.30 years)							ND(0.56)						
The other γ													
Gross β							1,900						
H-3 (Approx. 12 years)							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.

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)
Seawater

Unit: Bq/L

	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	1F, Unit 4 Screen (Inside the Silt Fence)	Density Limit Specified by the Reactor Regulation *	WHO Guidelines for drinking-water quality
Date of Sampling				Mar 16, 2014			Mar 16, 2014	Mar 16, 2014							
Time of sampling				6:33 AM			6:39 AM	6:39 AM							
Cs-134(Approx. 2 years)				12			15	7.3						60	10
Cs-137(Approx.30 years)				34			41	22						90	10
Gross β				250			220	110							
H-3 (Approx. 12 years)				690			560	320						60,000	10,000
Sr-90（Approx. 29 years）				-			-	-						30	10

Unit: Bq/L

	1F, South side of Unit 1-4 water intake channel (In front of impermeable wall)	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															
Time of sampling															
Cs-134(Approx. 2 years)														60	10
Cs-137(Approx.30 years)														90	10
Gross β															
H-3 (Approx. 12 years)														60,000	10,000
Sr-90（Approx. 29 years）														30	10

* Data announced this time is provided in a thick-frame. The other data was announced on March 17.

* "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/cm^3 to Bq/L]).

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

Unit: Bq/L

	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	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	1F, Between the water intake channel of Unit 2 and Unit 3	1F, Unit 3 Screen[*1]	1F, Between the water intake channel of Unit 3 and Unit 4	1F, Unit 4 Screen (Inside the Silt Fence)	Density Limit Specified by the Reactor Regulation *	WHO Guidelines for drinking-water quality
Date of Sampling				Mar 18, 2014			Mar 18, 2014	Mar 18, 2014							
Time of sampling				6:45 AM			6:52 AM	6:52 AM							
Cs-134(Approx. 2 years)				11			9.9	7.3						60	10
Cs-137(Approx.30 years)				26			29	17						90	10
Gross β				250			210	96							
H-3 (Approx. 12 years)				Under analysis			Under analysis	Under analysis						60,000	10,000
Sr-90（Approx. 29 years）				-			-	-						30	10

Unit: Bq/L

	1F, South side of Unit 1-4 water intake channel (In front of impermeable wall)	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															
Time of sampling															
Cs-134(Approx. 2 years)														60	10
Cs-137(Approx.30 years)														90	10
Gross β															
H-3 (Approx. 12 years)														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/cm^3 to Bq/L]).

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

Unit: Bq/L

		Groundwater observation hole No.0-1	Groundwater observation hole No.0-1-1	Groundwater observation hole No.0-1-2	Groundwater observation hole No.0-2	Groundwater observation hole No.0-3-1	Groundwater observation hole No.0-3-2	Groundwater observation hole No.0-4	Groundwater observation hole No.1	Groundwater observation hole No.1-1*	Groundwater observation hole No.1-2*	Groundwater observation hole No.1-3*	Groundwater observation hole No.1-4*	Groundwater observation hole No.1-5*
Cs-134 (Approx. 2 years)		9.8 *2 <3/9>	0.61 <3/2>	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)		25 *2 <3/9>	1.5 <3/2>	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〕
The other γ	Ru-106 (Approx. 370 days)	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. 310 days)	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>	56,000 <2/23>	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

		Groundwater observation hole No.1-6	Groundwater observation hole No.1-8	Groundwater observation hole No.1-9	Groundwater observation hole No.1-10	Groundwater observation hole No.1-11	Groundwater observation hole No.1-12	Groundwater observation hole No.1-13	Groundwater observation hole No.1-14	Groundwater observation hole No.1-16	Groundwater observation hole No.1-17	Groundwater pumped up from the well point (between Unit 1 and 2)	Groundwater observation hole No.2	Groundwater observation hole No.2-1*
Cs-134 (Approx. 2 years)		4,700 <3/17>	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)		12,000 <3/17>	110 〔11/25〕	380 〔9/3〕	-	2.8 <1/13>	170 〔10/21〕	93,000 <2/13>	230 *2 <2/27>	4.7 <2/17>	1.5 <3/10>	250 〔9/23〕	2.5 <2/26>	1.1 〔8/29〕 〔9/1〕
The other γ	Ru-106 (Approx. 370 days)	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. 310 days)	320 <2/13> <2/17>	12 <2/3>	ND	-	ND	ND	ND	ND	ND	ND	5.9 <3/3>	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>	850 <3/13>	3,100,000 <1/20> <1/30> <2/3>	2,200 <3/17>	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

		Groundwater observation hole No.2-2	Groundwater observation hole No.2-3	Groundwater observation hole No.2-5	Groundwater observation hole No.2-6	Groundwater observation hole No.2-7	Groundwater observation hole No.2-8	Groundwater observation hole No.2-9	Groundwater pumped up from the well point (between Unit 2 and 3)	Groundwater observation hole No.3	Groundwater observation hole No.3-1*	Groundwater observation hole No.3-4	Groundwater observation hole No.3-5
Cs-134 (Approx. 2 years)		15 <2/12>	2.2 <2/26>	25 <2/12>	17 <3/11>	3.5 <2/23>	-	-	1.2 <3/9>	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>	50 <3/11>	9.0 <2/23>	-	0.58 *2 <2/11>	3.1 <3/9>	5.9 〔8/8〕	2.6 〔8/1〕	5.2 <3/13>	170 <1/15>
The other γ	Ru-106 (Approx. 370 days)	ND	ND	ND	ND	ND	-	6.5 *2 <2/11>	ND	ND	ND	ND	-
	Mn-54 (Approx. 310 days)	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		560 <3/12>	1,500 〔12/6〕	150,000 <2/12>	3,200 〔12/5〕	570 <3/12>	2,700 *2 <3/2> <3/16>	1,700 *2 <2/7>	240,000 〔12/12〕	1,400 〔7/11〕	180 〔8/1〕	18 <3/12>	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>	1300 <3/9>	13,000 *2 <2/7>	5,100 〔12/6〕	3,200 〔2012/12/12〕	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 〔2012/12/12〕	4.4 〔7/23〕	ND	-

● Since some samples are still under analysis, the highest dose of the Strontium-90 is among those previously announced.
*1 Analysis result of pumped water.
*2 The results are for a reference, since the water was highly turbid. (γ and Gross β were measured after filtration.)

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

	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		1F, Unit 4 Screen (Inside the Silt Fence)	
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〕	62	〔9/16〕
Cs-137(Approx.30 years)	4.5	<3/17>	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〕	140	〔9/16〕
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〕	360	〔10/7〕
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〕	400	〔8/12〕 〔10/7〕
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〕	130	〔9/23〕

Unit: Bq/L

	1F, South side of Unit 1-4 water intake channel (In front of impermeable wall)		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)	8.0	<3/10>	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)	18	<3/10> <3/17>	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	380	<3/10>	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)	260	<3/10>	1.9	〔11/25〕	68	〔8/19〕	67	〔8/19〕	59	〔8/19〕	52	〔8/19〕	60	〔8/19〕	4.7	〔8/14〕	ND		6.4	〔10/8〕	ND		ND	
Sr-90（Approx. 29 years）	-		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

Unit: 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