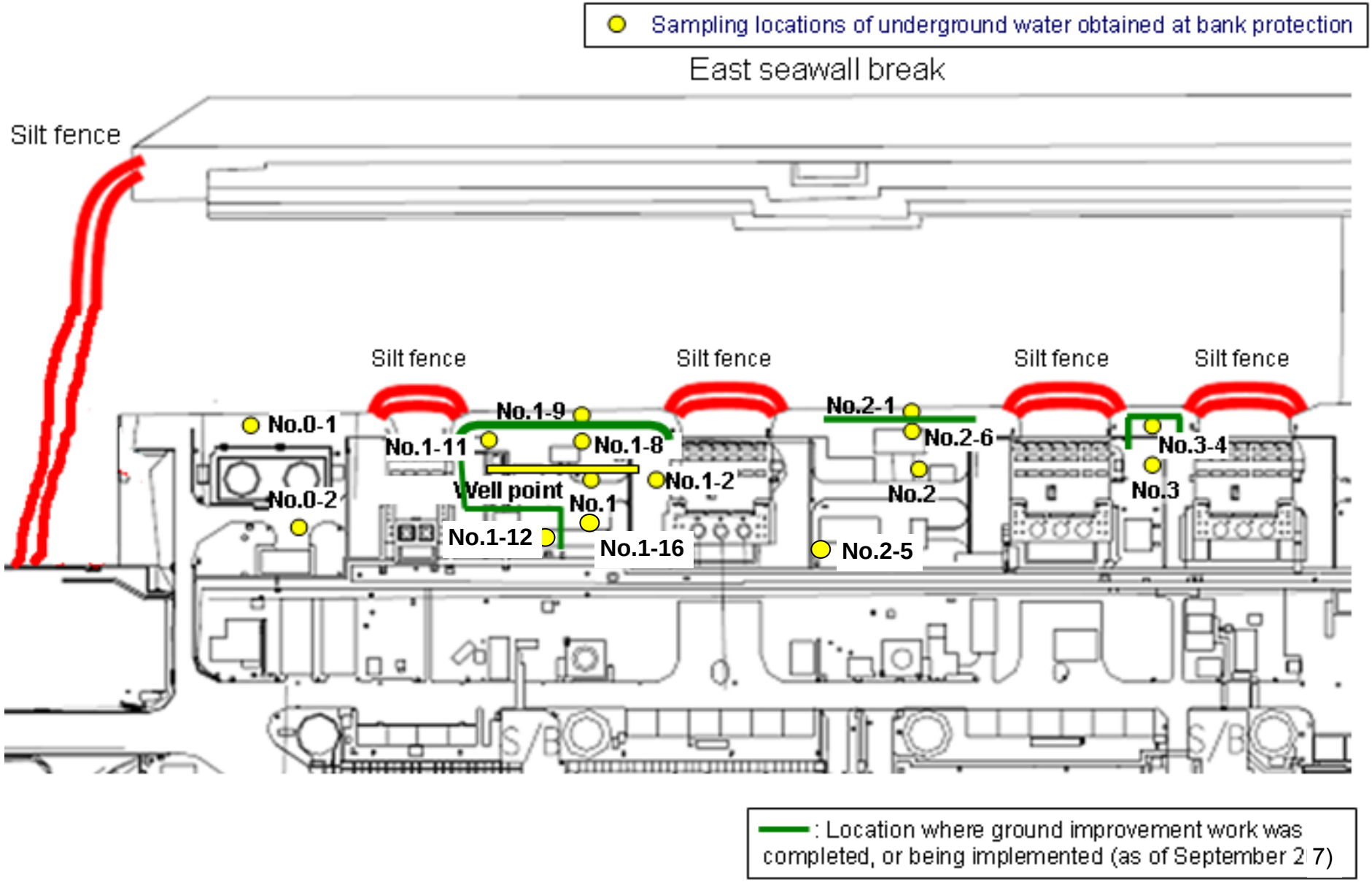
<Reference>
October 27, 2013
Tokyo Electric Power Company

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
Underground Water Obtained at Bank Protection

Unit: Bq/L (exclude chloride)

	Underground water observation hole No.0-1	Underground water observation hole No.0-2	Underground water observation hole No.1	Underground water observation hole No.1-2	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.1-16	Groundwater pumped up from the well point
Date of sampling			Oct 27, 2013							
Time of sampling			12:25 PM							
Chloride (unit: ppm)			-							
Cs-134 (Approx. 2 years)			ND(0.38)							
Cs-137 (Approx.30 years)			ND(0.49)							
The other γ										
All β			ND(19)							
H-3 (Approx. 12 years)			Under analysis							
Sr-90 (Approx. 29 years)			Under analysis							

	Underground water observation hole No.2	Underground water observation hole No.2-1	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.3	Underground water observation hole No.3-4
Date of sampling						
Time of sampling						
Cs-134 (Approx. 2 years)						
Cs-137 (Approx.30 years)						
The other γ						
All β						
H-3 (Approx. 12 years)						
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.

<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.0-2	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	Groundwater observation hole No.1-8	Groundwater observation hole No.1-9	Groundwater observation hole No.1-11	Groundwater observation hole No.1-12	Groundwater observation hole No.1-16	Groundwater pumped up from the well point (notch tank)
Cs-134 (Approx. 2 years)		5.1 〔10/20〕	〔1/0〕 〔10/13〕	13 〔8/29〕	1.9 〔7/8〕	11,000 〔7/9〕	10 〔9/2〕	1.5 〔7/8〕	310 〔8/5〕	31 〔9/16〕	170 〔9/3〕	0.92 〔10/14〕	74 〔10/21〕	〔1/1〕 〔10/3〕	110 〔9/23〕
Cs-137 (Approx.30 years)		9.5 〔10/20〕	1.6 〔10/13〕	31 〔8/29〕	3.6 〔7/8〕	22,000 〔7/9〕	24 〔9/2〕	3.6 〔7/8〕	650 〔8/5〕	67 〔9/16〕	380 〔9/3〕	2.0 〔10/10〕	170 〔10/21〕	〔1/3〕 〔10/10〕	250 〔9/23〕
The other γ	Ru-106 (Approx. 370 days)	ND	ND	26 〔5/24〕	7.9 〔7/8〕	160 〔8/15〕	17 〔7/22〕 〔8/8〕	3.1 〔8/8〕	ND	ND	ND	ND	ND	ND	25 〔9/2〕
	Mn-54 (Approx. 310 days)	ND	ND	ND	1.0 〔7/5〕	62 〔7/5〕	ND	ND	ND	0.76 〔9/16〕	ND	ND	ND	ND	ND
	Co-60 (Approx. 5 years)	ND	ND	0.50 〔7/19〕	ND	3.1 〔7/8〕	ND	ND	ND	ND	ND	ND	0.51 〔10/24〕	〔1/0〕 〔10/7〕	ND
	Sb-125 (Approx. 3 years)	ND	ND	1.7 〔7/11〕	ND	250 〔7/15〕	1.4 〔7/12〕 〔8/26〕	ND	12 〔8/8〕	ND	ND	ND	61	ND	ND
All β		300 〔8/22〕	〔3/27〕 〔10/13〕	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〕	3,700 〔10/21〕	600 〔9/8〕	72 〔10/3〕	730 〔10/21〕	〔5/10〕 〔10/14〕	700,000 〔9/23〕
H-3 (Approx. 12 years)		45,000 〔8/29〕	ND	500,000 〔5/24〕 〔6/7〕	630,000 〔7/8〕	57,000 〔10/3〕	290,000 〔7/12〕	98,000 〔7/11〕	72,000 〔8/15〕	2500 〔10/14〕	770 〔10/1〕	85000 〔9/13〕	350000 〔10/21〕	43000 〔9/26〕	460,000 〔8/19〕
Sr-90(Approx. 29 years)		Under analysis	Under analysis	1,200 〔6/7〕	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis 〔10/21〕	Under analysis	-

Unit: Bq/L

		Groundwater observation hole No.2	Groundwater observation hole No.2-1	Groundwater observation hole No.2-5[*1]	Groundwater observation hole No.2-6	Groundwater observation hole No.3	Groundwater observation hole No.3-1	Groundwater observation hole No.3-4
Cs-134 (Approx. 2 years)		0.50 〔7/9〕	0.66 〔9/1〕	3.7 〔9/29〕	0.42 〔9/22〕	3.5 〔7/25〕	1.2 〔7/25〕 〔8/8〕	1.0 〔9/25〕
Cs-137 (Approx.30 years)		1.2 〔7/11〕 〔8/1〕	1.1 〔8/29〕 〔9/1〕	10 〔9/29〕	0.6 〔10/13〕	5.9 〔8/8〕	2.6 〔8/1〕	2.3 〔10/23〕
The other γ	Ru-106 (Approx. 370 days)	ND	ND	ND	ND	ND	ND	ND
	Mn-54 (Approx. 310 days)	ND	ND	0.77 〔9/29〕	ND	ND	ND	ND
	Co-60 (Approx. 5 years)	ND	ND	ND	ND	ND	ND	ND
	Sb-125 (Approx. 3 years)	ND	ND	26 〔9/29〕	ND	1.1 〔9/5〕	ND	ND
All β		1,700 〔7/8〕	380 〔7/29〕	46000 〔9/29〕	530 〔10/23〕	1,400 〔7/11〕	180 〔8/1〕	ND
H-3 (Approx. 12 years)		850 〔6/26〕	440 〔8/26〕	1500 〔9/29〕	1,100 〔10/13〕 〔10/17〕	3,200 〔2012/12/12〕	460 〔8/1〕	170 〔9/18〕
Sr-90(Approx. 29 years)		54 〔5/31〕	Under analysis	Under analysis	Under analysis	8.3 〔2012/12/12〕	Under analysis	Under analysis

*1 Although we previously announced the analysis result of γ and all β on September 29, we have reanalyze the sample.
The analysis result of No.2-5 is the reference value, since we could not sample groundwater by a regular procedure.

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

* Date of sampling is provided in parentheses.