Results of Radiostrontium Analysis of Sediment (2011)

For those locations where levels of radioactive cesium in sediment were comparatively high in the first survey carried out in each prefecture, the level of radiostrontium in sediment was measured.

The results showed that the concentration of strontium-90 (Sr-90) was in the range of 0.4–6.8Bq/kg.

*Sr-90 levels measured nationwide before the accident (soil samples): 0.20–14Bq/kg (dry)
(Source: FY2009 Environmental Radiation Level Monitoring Results Data
(August 2011, Japan Chemical Analysis Center))

Moreover, levels of strontium-89 (Sr-89) were also measured for reference purposes and were found to be below the detection limit (2Bq/kg) at all locations (figures for Sr-89 are reference values only, as it was not possible to obtain a standard source).

Results of Radiostrontium Analysis of Sediment

Prefecture			Name of the water body	Specimen sampling date	(rereleased) Mud sampling depth	(rereleased) Mud content (%)	(rereleased) Property	Sediment			
								Radioactive cesium (rereleased)		**Radiostrontium**	
								Cs-134 Bq/kg-dry	Cs-137 Bq/kg-dry	**St-90 Bq/kg-dry**	**Sr-89*1 Bq/kg-dry**
Miyagi	Rivers	49	Nanakitagawa River, Takasagobashi Bridge	2011/10/14	5	54.0	Silt with sand	5,000	6,100	**1.1**	**ND*2**
		77	Abukumagawa River, Abukumaohashi Bridge	2011/10/8	5	81.0	Sand	44	47	**0.4**	**ND*2**
	Lakes	97	Shichikashuku Dam	2011/10/6	10	34.1	Silt	960	1,200	**1.6**	**ND*2**
Fukushima	Rivers	7	Manogawa River, Majimabashi Bridge	2011/9/16	10	30.1	Silt	13,000	15,000	**3.0**	**ND*2**
		14	Otagawa River, Masudabashi Bridge	2011/9/16	5	47.3	Silt with sand	27,000	33,000	**4.1**	**ND*2**
		69	Gohyakugawa River, Kamisekishitabashi Bridge	2011/9/16	5	46.1	Silt	10,000	12,000	**3.3**	**ND*2**
		71	Abukumagawa River, Takadabashi Bridge	2011/9/15	10	43.9	Silt	14,000	16,000	**3.4**	**ND*2**
		81	Matsukawa River, Before the confluence with Abukumagawa River	2011/9/17	5	79.8	Sand with gravel	7,000	8,200	**1.2**	**ND*2**
		85	Abukumagawa River, Taishobashi Bridge	2011/9/17	5	61.7	Sand with gravel	6,400	7,800	**1.8**	**ND*2**
		101	Kyuyukawa River, Awanomiyabashi Bridge	2011/9/28	5	40.0	Silt	5,900	7,100	**1.9**	**ND*2**
	Lakes	116	Matsugabo Dam (Utagawako Lake)	2011/9/28	10	27.6	Silt	10,000	12,000	**4.2**	**ND*2**
		119	Takanokura Dam Reservoir	2011/9/16	5	58.3	Gravel/sand with silt	10,000	12,000	**3.3**	**ND*2**
		124	Kido Dam	2011/9/27	5	34.5	Silt with sand	5,400	6,000	**6.8**	**ND*2**
Ibaraki	Rivers	30	Nakagawa River, Shimokunii	2011/9/12	10	36.7	Silt with sand	2,500	3,000	**1.6**	**ND*2**
	Lakes	99	Kasumigaura Lake, center of the lake	2011/9/12	12	16.6	Silt	81	140	**3.3**	**ND*2**
		105	Ushikunuma Lake	2011/10/5	10	19.9	Silt	850	990	**0.7**	**ND*2**
Tochigi	Rivers	39	Itaanagawa River, tributary	2011/10/9	3	61.0	Sand	2,200	2,700	**1.3**	**ND*2**
	Lakes	110	Ikari Dam	2011/10/18	10	34.8	Silt	1,900	2,500	**1.3**	**ND*2**
Gunma	Rivers	44	Kogurogawa River, Kayanobashi Bridge	2011/12/7	5	77.6	Sand with gravel	140	200	**0.7**	**ND*2**
	Lakes	54	Fujiwara Dam	2011/12/1	10	31.0	Silt	2,000	2,600	**2.0**	**ND*2**
Chiba	Rivers	8	Ohorigawa RiverKitakashiwabashi Bridge	2011/11/1	3	77.6	Sand with gravel	4,300	5,400	**1.1**	**ND*2**
	Lakes	45	Teganuma LakeNedoshita	2011/11/1	5	29.0	Silt	1,500	1,800	**1.4**	**ND*2**

*1: Values for Sr-89 are given as reference due to unavailability of standard radiation source.
*2: ND (Lower Detection Limit 2Bq/kg-dry)