

(News Release)
The Results of Additional Radioactive Material Monitoring of
the Surface Water Bodies

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In accordance with the Comprehensive Radiation Monitoring Plan determined by the Monitoring Coordination Meeting, the Ministry of the Environment (MOE) is continuing to monitor radioactive materials in water environments (surface water bodies (rivers, lakes and headwaters, and coasts), etc.).

To date, monitoring of radioactive iodine and radioactive cesium has been carried out and their results have been released from time to time. Additionally, monitoring of radiostrontium in sediment has been carried out at various locations (sampling date: October in Miyagi Prefecture, September in Fukushima Prefecture, September and October in Ibaraki Prefecture, October in Tochigi Prefecture, December in Gunma Prefecture, and November in Chiba Prefecture), and the results are released here.

1. Monitoring Overview

(1) Additional monitoring locations

Among the survey locations in each prefecture, those locations of which readings of radioactive cesium in sediment were relatively high:

- Miyagi Prefecture: 3 locations (Rivers 2, Lake and headwater 1)
- Fukushima Prefecture: 10 locations (Rivers 7, Lakes and headwaters 3)
- Ibaraki Prefecture: 3 locations (River 1, Lakes and headwaters 2)
- Tochigi Prefecture, Gunma Prefecture, Chiba Prefecture: 2 locations each (River 1, Lake and headwater 1)

In total: 22 locations

(2) Additional monitoring item

Radiostrontium (Sr-90) in sediment

2. Outline of Results

In all locations, the readings of radiostrontium (Sr-90) were within the range of measurements (soil samples) taken before the accident of the Tokyo Electric Power Company's Fukushima Daiichi Nuclear Power Station.

- Sr-90 concentration detected in sediment in this additional monitoring: 0.4-6.8Bq/kg (dried mud)

*Readings of Sr-90 before the accident in Japan (soil sample): 0.20-14Bq/kg (dry)

(Source: FY2009 Environmental Radiation Level Monitoring Results Data)

(August FY2011 Japan Chemical Analysis Center)

(Annex for details)

(Map attached)

Monitoring Results of Radiostrontium in Sediment of Surface Water Bodies (Rivers, and Lakes and Headwaters)

Prefecture	Water Body/Survey Location	Municipality	Specimen sampling date	(Rereleased) Mud sampling depth cm	(Rereleased) Mud content %	(Rereleased) Property	Concentration of radioactive material in sediment				
							Radiostrontium		Radioactive cesium (rereleased)		
							Sr-90 Bq/kg (dried mud)	(Reference value *)	Cs-134 Bq/kg (dried mud)	Cs-137 Bq/kg (dried mud)	
								Sr-89 Bq/kg (dried mud)			
Miyagi	Rivers	Nanakitagawa River, Takasagobashi Bridge	Sendaishi City	2011/10/14	5	54.0	Silt with sand	1.1	<2	5,000	6,100
		Abukumaohashi Bridge, Abukumagawa River	Iwanumashi City/Wataricho Town	2011/10/8	5	81.0	Sand	0.4	<2	44	47
	Lakes	Shichikashuku Dam		2011/10/6	10	34.1	Silt	1.6	<2	960	1,200
Fukushima	Rivers	Manogawa River, Majimabashi Bridge	Minamisomashi City	2011/9/16	10	30.1	Silt	3.0	<2	13,000	15,000
		Otagawa River, Masudabashi Bridge	Minamisomashi City	2011/9/16	5	47.3	Silt with sand	4.1	<2	27,000	33,000
		Gohyakugawa River, Kamisekishitabashi Bridge	Motomiyashi City	2011/9/16	5	46.1	Silt	3.3	<2	10,000	12,000
		Abukumagawa River, Takadabashi Bridge	Nihonmatsushi City	2011/9/15	10	43.9	Silt	3.4	<2	14,000	16,000
		Matsukawa River, before the confluence with Abukumagawa River	Fukushimashi City	2011/9/17	5	79.8	Sand with gravel	1.2	<2	7,000	8,200
		Abukumagawa River, Taishobashi Bridge	Dateshi City	2011/9/17	5	61.7	Sand with gravel	1.8	<2	6,400	7,800
		Kyuyukawa River, Awanomiyabashi Bridge	Yugawamura Village	2011/9/28	5	40.0	Silt	1.9	<2	5,900	7,100
	Lakes	Matsugabo Dam (Utawaga Lake)	Somashi City	2011/9/28	10	27.6	Silt	4.2	<2	10,000	12,000
		Takanokura Dam Reservoir	Minamisomashi City	2011/9/16	5	58.3	Gravel/sand with silt	3.3	<2	10,000	12,000
		Kido Dam	Narahamachi Town	2011/9/27	5	34.5	Silt with sand	6.8	<2	5,400	6,000
Ibaraki	Rivers	Nakagawa River, Shimokunii	Mitoshi City	2011/9/12	10	36.7	Silt with sand	1.6	<2	2,500	3,000
	Lakes	Kasumigaura Lake, center of the lake		2011/9/12	12	16.6	Silt	3.3	<2	81	140
		Ushikunuma Lake		2011/10/5	10	19.9	Silt	0.7	<2	850	990
Tochigi	Rivers	Itaanagawa River, tributary	Nikkoshi City	2011/10/9	3	61.0	Sand	1.3	<2	2,200	2,700
	Lakes	Ikari Dam		2011/10/18	10	34.8	Silt	1.3	<2	1,900	2,500
Gunma	Rivers	Kogurogawa River, Kayanobashi Bridge	Kiryushi City	2011/12/7	5	77.6	Sand with gravel	0.7	<2	140	200
	Lakes	Fujiwara Dam		2011/12/1	10	31.0	Silt	2.0	<2	2,000	2,600
Chiba	Rivers	Ohorigawa River, Kitakashiwabashi Bridge	Kashiwashi City	2011/11/1	3	77.6	Sand with gravel	1.1	<2	4,300	5,400
	Lakes	Teganuma Lake, Nedoshita		2011/11/1	5	29.0	Silt	1.4	<2	1,500	1,800

* Values for Sr-89 are given as reference due to unavailability of standard radiation source.



