

## **Results of the FY2013 Analysis of Radioactive Strontium**

The analysis of radioactive strontium was conducted for locations in each prefecture where activity concentrations of radioactive cesium in sediments were relatively high.

As a result, activity concentrations of Sr-90 were in the range of not detectable to 55 Bq/kg.

Prefecture	Location		Sampling Date	Sediment								
				General items (rereleased)			Activity concentration [Bq/kg(dry)]					
				Sample length (cm)	Sediment content (%)	Property	Radioactive cesium (rereleased)	Radioactive				
			Cs-134	Cs-137	Total	Se-90						
Miyagi	Rivers	Teizan Canal (Kiyusunaoshi River)	Teizan Bridge	2013/8/8	8	27.8	Silt/clay	310	670	980	0.24	
		Masuda River	Bishamon Bridge	2013/5/7	2	43.7	Silt	550	1,200	1,750	<0.23	
				2013/11/5	7	42.6	Silt	350	840	1,190	<0.37	
		Abukuma River	Abukuma-ohashi Bridge (Iwanuma)	2013/4/23	5	63.9	Sand/silt	250	500	750	0.56	
				2013/10/7	6	73.8	Sand	80	190	270	0.30	
	Lake and reservoirs	Lake Amanuma	Lake exit		2013/6/10	3	72.6	Sand/silt	930	2,000	2,930	2.2
					2013/12/4	10	57.7	Silt	450	1,100	1,550	0.30
		Shichikasyuku Dam	Dam site		2013/9/2	7	32.5	Silt	550	1,200	1,750	1.0
					2013/12/13	10	30.6	Silt	450	1,100	1,550	1.0
		Lake Bagyunuma	Lake exit		2013/12/6	10	43.3	Sand/silt	1,300	2,900	4,200	0.97
	Coastal area	Neighboring sea area of Sendai Port (A)	Naiko Inner Port, 4-Nai		2013/8/21	10	28.2	Silt	640	1,400	2,040	<0.55
					2013/11/12	10	36.0	Silt	160	370	530	<0.33
		Offshore of Abukuma River Estuary	Offshore of Abukuma River Estuary		2013/8/20	10	58.0	Silt/sand	630	1,400	2,030	<0.44
					2013/10/29	10	70.8	Sand	90	200	290	<0.19
					2013/8/5	10	32.6	Silt	2,100	4,700	6,800	<0.29
Fukushima	Rivers	Managawa River	Majima Bridge	2013/12/4	5	40.0	Silt	1,500	3,600	5,100	0.28	
				2014/6/25	5	81.4	Sand	4,300	9,100	13,400	0.87	
		Ota River	Ishiwatado Bridge	2013/10/22	5	77.3	Sand/gravel	3,400	7,900	11,300	1.2	
			Masuda Bridge	2014/8/1	10	50.4	Sand/silt	1,400	3,100	4,500	0.47	
				2013/12/4	5	39.1	Silt	5,800	14,000	19,800	0.90	
		Ukedo River	Murohara Bridge	2014/5/20	4	80.1	Sand	5,100	10,000	15,100	0.53	
				2013/12/6	5	75.5	Sand	5,000	12,000	17,000	0.25	
			Ukedo Bridge	2014/9/19	10	38.8	Silt/sand	11,000	26,000	37,000	2.9	
				2013/10/1	3	30.6	Silt/sand	14,000	31,000	45,000	2.6	
			Maeda River	Nakahama Bridge	2014/5/20	5	74.0	Sand	3,200	6,700	9,900	0.22
			2013/10/1	3	79.5	Gravel/sand	840	1,900	2,740	<0.35		
	Abukuma River	Taisho Bridge	2014/4/24	5	63.5	Sand/silt	490	970	1,460	<0.20		
			2013/10/7	5	86.4	Gravel/sand	80	200	280	<0.20		
	Kyu-yukawa River	Awanomiya Bridge	2014/6/10	5	73.5	Sand	130	280	410	<0.22		
	Lake and reservoirs	Matsugabo Dam (Lake Utagawa)			2013/12/25	5	81.2	Sand/gravel	27	61	88	<0.18
				2014/6/3	10	22.2	Silt	14,000	28,000	42,000	2.5	
				2013/12/2	10	21.3	Silt	4,400	11,000	15,400	2.3	
Soso (farm pond)		Ainosawa		2014/8/8	10	30.2	Silt/sand	22,000	48,000	70,000	5.8	
				2013/10/22	10	30.2	Silt	6,700	16,000	22,700	1.3	
Ganbe Dam Reservoir				2013/6/26	10	34.3	Silt	34,000	72,000	106,000	14	
				2013/12/9	10	28.3	Silt	26,000	61,000	87,000	3.9	
Takanokura Dam Reservoir				2014/8/5	10	52.0	Sand/silt	4,100	9,100	13,200	2.4	
				2013/12/6	10	34.6	Silt	7,800	19,000	26,800	4.9	
Yokokawa Dam Reservoir				2013/6/4	10	38.2	Silt	23,000	49,000	72,000	10	
				2013/10/9	5	62.9	Sand/silt	7,300	17,000	24,300	3.6	
				2013/6/17	5	24.4	Silt	8,600	18,000	26,600	4.7	
		Ryugasaku		2013/12/5	10	59.7	Silt	3,300	5,700	8,000	1.5	
		Koakuto		2014/5/21	8	55.6	Silt/sand	20,000	41,000	61,000	4.0	
		Yosouchi		2013/12/10	10	50.0	Silt/clay	12,000	28,000	40,000	3.1	
	Heigoiri		2014/6/26	10	51.7	Silt	27,000	57,000	84,000	13		
	Soso (farm pond)		2013/12/6	10	65.6	Sand	2,700	6,200	8,900	5.3		
			2013/8/28	10	21.9	Silt	12,000	27,000	39,000	7.1		
			2013/12/10	10	17.2	Silt	15,000	37,000	52,000	3.8		
	Joroku		2014/6/24	10	39.3	Sand/silt	28,000	65,000	93,000	21		
	Sawairi No. 1		2013/12/4	10	43.5	Silt	24,000	65,000	89,000	16		
	Suzunai No. 4		2013/6/27	10	27.3	Silt	150,000	310,000	460,000	55		
	Nishihaguro		2013/12/4	10	29.3	Silt	130,000	320,000	450,000	41		
			2014/5/21	5	64.1	Silt	29,000	59,000	88,000	2.6		
			2013/10/10	10	47.0	Silt	37,000	86,000	123,000	3.7		
			2014/6/27	10	62.9	Silt	20,000	43,000	63,000	2.0		
			2013/10/10	6	68.1	Silt	5,500	13,000	18,500	1.8		
	Sakashita Dam		2014/6/26	10	25.8	Silt	8,000	17,000	25,000	4.1		
			2013/10/10	10	27.9	Silt	5,800	13,000	18,800	4.2		
	Soso (farm pond)	Yonomori		2014/7/3	8	42.3	Silt	16,000	34,000	50,000	4.2	
			2013/12/4	10	42.2	Silt	14,000	34,000	48,000	4.4		
	Takikawa Dam			2014/9/17	10	62.7	Sand/silt	9,400	21,000	30,400	3.1	
			2013/10/11	5	34.7	Silt/sand	5,300	12,000	17,300	2.6		
	Soso (farm pond)	Kamisigeoka No. 1		2013/8/9	10	26.5	Silt	7,400	16,000	23,400	3.0	
			2013/10/9	8	63.7	Sand	3,300	7,700	11,000	0.70		
		Shimoshigeoka		2013/8/9	5	50.5	Silt/sand	4,600	10,000	14,600	0.97	
			2013/10/9	5	69.4	Sand/silt	2,900	6,600	9,500	0.70		

Prefecture	Location Water Body/Point		Sampling Date	Sediment							
				General items (rereleased)			Activity concentration [Bq/kg(dry)]				
				Sample length (cm)	Sediment content (%)	Property	Cs-134	Cs-137	Total	Radioactive Sr-90	
Fukushima	Lake and reservoirs	Kido Dam	2014/6/6	5	30.8	Silt	5,200	11,000	16,200	1.9	
			2013/12/5	10	27.5	Silt	4,800	12,000	16,800	2.0	
		Hokkawa Dam	2014/7/4	10	65.0	Silt	3,600	7,500	11,100	1.7	
	Coastal area	Neighboring sea area of Soso Approx. 2,000 m offshore of Tsurushihama Fishing Port		2013/12/2	8	27.5	Silt	2,200	5,400	7,600	2.9
				2014/8/20	10	73.7	Sand	12	32	44	<0.31
				2013/12/10	10	73.3	Sand	4.5	8.5	13.0	<0.40
		Matsukawaura sea area Around center of Fishing Right Area-1		2014/9/27	10	76.9	Sand/silt	33	68	101	<0.37
				2013/11/14	10	78.8	Sand/silt	28	61	89	<0.40
				2014/8/21	10	79.4	Sand	18	37	55	<0.28
		Neighboring sea area of Soso Approx. 2,000 m offshore of Manogawa River		2013/11/18	10	75.3	Sand/silt	20	41	61	<0.39
				2014/9/30	10	76.7	Sand	25	54	79	<0.41
				2013/11/21	10	76.9	Sand/silt	24	46	70	<0.37
		Neighboring sea area of Haramachi-shi Approx. 1,000 m offshore of Otagawa River		2014/6/19	10	75.6	Sand	17	30	47	<0.40
				2013/12/11	10	76.3	Sand	14	37	51	<0.42
				2014/9/30	10	68.3	Sand/silt	120	260	380	<0.40
		Neighboring sea area of Soso District Approx. 1,000 m offshore of Odaka River		2013/11/18	10	73.9	Sand	18	46	64	<0.33
				2014/8/21	10	77.7	Sand/silt	390	850	1,240	<0.39
				2013/12/12	10	60.8	Silt/sand	250	620	870	0.33
		Neighboring sea area of Soso District Approx. 2,000 m offshore of Ukedo River		2014/8/22	10	73.3	Sand	200	420	620	<0.44
				2013/10/4	10	72.9	Sand	170	360	530	<0.38
				2014/7/30	10	66.8	Sand/silt	500	1,100	1,600	<0.43
		Neighboring sea area of Haramachi Town Approx. 1,000 m offshore of Kidogawa River		2013/10/4	10	71.1	Sand	190	420	610	<0.41
				2014/6/6	10	76.8	Sand	95	200	295	<0.42
				2013/12/12	10	71.2	Sand	80	210	290	<0.37
		Approx. 1,000 m offshore of Asami River Estuary		2014/6/6	10	78.1	Sand	110	210	320	<0.38
				2013/10/28	10	72.5	Sand	72	200	272	<0.35
				2014/6/6	10	78.5	Sand	49	100	149	<0.39
		Approx. 1,000 m offshore of Ohisa River Estuary		2013/11/21	10	73.8	Sand	47	120	167	<0.38
				2014/8/27	10	74.0	Sand	22	41	63	<0.41
				2013/10/29	10	75.3	Sand	15	42	57	<0.36
Neighboring sea area of Iwaki-shi Approx. 1,500 m offshore of Natsui River		2014/8/27	10	48.5	Silt	250	490	740	<0.41		
		2013/12/13	10	49.3	Silt	160	400	560	<0.50		
		2014/8/27	10	71.4	Sand	59	130	189	<0.35		
Onahama Port Approx. 400 m north of Nishibouhatei No. 2		2013/12/13	10	21.6	Silt	65	140	205	<0.40		
		2014/8/27	10	49.3	Silt	160	400	560	<0.50		
		2013/12/13	10	71.4	Sand	59	130	189	<0.35		
Joban coastal sea area Approx. 1,000 m offshore of Binda River		2013/11/8	10	22.6	Silt	1,200	2,700	3,900	1.4		
		2013/8/2	8	67.2	Sand/gravel	560	1,300	1,860	<0.39		
		2013/11/8	9	74.8	Sand	430	930	1,360	<0.21		
Ibaraki	Rivers	Shinkawa River	Shinten Bridge	2013/5/26	6	76.7	Sand/silt	430	860	1,290	0.51
		Bizen River	Bizengawa Bridge	2013/11/13	5	78.7	Sand/silt	290	650	940	0.27
		Seimei River	Katsushashi Bridge	2013/8/7	10	14.1	Silt/clay	240	640	880	0.77
Lake and reservoirs	Lake Kasumigaura	Center	2013/11/6	10	15.2	Silt	150	340	490	1.5	
	Lake Ushikunuma	Center of Lake Ushikunuma	2013/5/16	10	21.9	Silt	370	640	1,010	<0.50	
	Mizunuma Dam	Center	2013/11/25	8	23.9	Silt	320	660	980	0.70	
Tochigi	Rivers	Akabori River	Nikko City Hall, front	2013/8/14	6	77.1	Sand/gravel	130	290	420	<0.20
				2013/11/13	3	78.4	Sand/gravel	110	260	370	0.23
				2013/7/31	10	32.7	Silt	1,600	3,500	5,100	0.74
Gunma	Lake and reservoirs	Ikari Dam Reservoir	Center	2013/12/10	5	27.3	Silt	760	1,800	2,560	0.93
				2013/5/28	10	70.2	Sand	100	230	330	<0.28
				2013/11/5	5	69.5	Sand/gravel	29	61	90	0.44
Chiba	Rivers	Lake Fujiwara (Fujiwara Dam)	Center	2013/7/1	10	35.5	Silt	380	930	1,310	<0.46
				2013/12/6	8	36.5	Silt	990	2,600	3,590	1.7
				2013/5/15	5	46.8	Silt	2,700	5,200	7,900	<0.39
Lake and reservoirs	Ohori River	Kitakashiwa Bridge	2013/11/15	5	71.1	Sand	760	1,800	2,560	0.29	
	Otsu River	Kaminuma Bridge	2013/5/16	5	29.4	Silt	2,200	4,500	6,700	<0.57	
	Lake Teganuma	Nedoshita	2013/11/15	5	56.1	Sand/silt	1,600	3,800	5,400	0.49	
		2013/8/13	8	31.9	Silt	1,200	2,600	3,800	<0.56		
		2013/11/18	5	29.7	Silt	1,300	3,100	4,400	1.8		