Niagara Falls Storage Site
Groundwater Wells Sampled on June 24, 2010
After June 23, 2010, Ontario-Quebec Border Region Earthquake

On June 24, 2010, one day following a 5.0 magnitude earthquake in the Ontario-Quebec Border Region of Canada, the Corps collected groundwater samples from select wells surrounding the Interim Waste Containment Structure (IWCS) at the Niagara Falls Storage Site.

The analytical results shown on the following pages are comparable to historical data from our many years of environmental monitoring of the site. These results indicate that the IWCS continues to perform as designed.

A total of eight wells were sampled, including four shallow wells that monitor the upper water bearing zone (wells 862, A42, OW04B, and OW06B) and four deep wells that monitor the lower water bearing zone (wells 863, OW04A, OW06A, and OW15A). Well 863 had insufficient water to collect sample for both filtered and unfiltered samples, so only unfiltered samples were collected from this well.

Niagara Falls Storage Site

Groundwater Wells Sampled on 24JUN2010

After 23JUN2010 Ontario-Quebec Border 5.0 Mag. Earth Quake

Validated Radiological Data

Well ID	Filtered	Analysis	Detected	Result	Units		Uncertainity	Minimum Detectable Activity	Lab Qualifiers	Validated Qualifiers	Usability	NY State- Unrestricted Use**	NY State- Restricted Use -Industrial**	DOE Cleanup Criteria**
862	No	Radium-226	No	0.149	pCi/l	±	0.163	0.319	U	U	YES	5[a]	5[a]	100[a]
862	No	Radium-228	YES	0.940	pCi/l	±	0.074	0.475			YES	5[a]	5[a]	100[a]
		Total Radium[a]		*0.940*	*pCi/l*							5[a]	5[a]	100[a]
862	No	Thorium-228	No	0.097	pCi/l	±	0.089	0.133	U	U	YES	15[b]	NE	400
862	No	Thorium-230	No	0.161	pCi/l	±	0.175	0.334	U	U	YES	15[b]	NE	300
862	No	Thorium-232	YES	0.162	pCi/l	±	0.094	0.127			YES	15[b]	NE	50
		Total Thorium[b]		*0.162*	*pCi/l*							15[b]	NE	NE
862	No	Uranium-234	YES	4.360	pCi/l	±	0.562	0.432	B		YES	27[c]	NE	600[c]
862	No	Uranium-235	No	0.000	pCi/l	±	0.196	0.35	U	U	YES	27[c]	NE	600[c]
862	No	Uranium-238	YES	2.550	pCi/l	±	0.432	0.341			YES	27[c]	NE	600[c]
		Total Uranium[c]		*6.910*	*pCi/l*	=	*7.678*	*µg/L*				27[c]	NE	600[c]
862F	Yes	Radium-226	YES	0.463	pCi/l	±	0.283	0.284			YES	5[a]	5[a]	100[a]
862F	Yes	Radium-228	No	0.142	pCi/l	±	0.054	0.361	U	U	YES	5[a]	5[a]	100[a]
		Total Radium[a]		*0.463*	*pCi/l*							5[a]	5[a]	100[a]
862F	Yes	Thorium-228	YES	0.233	pCi/l	±	0.114	0.114			YES	15[b]	NE	400
862F	Yes	Thorium-230	YES	0.442	pCi/l	±	0.202	0.349			YES	15[b]	NE	300
862F	Yes	Thorium-232	YES	0.144	pCi/l	±	0.086	0.079			YES	15[b]	NE	50
		Total Thorium[b]		*0.819*	*pCi/l*							15[b]	NE	NE
862F	Yes	Uranium-234	YES	4.460	pCi/l	±	0.492	0.311	B		YES	27[c]	NE	600[c]
862F	Yes	Uranium-235	No	0.180	pCi/l	±	0.136	0.181	U	U	YES	27[c]	NE	600[c]
862F	Yes	Uranium-238	YES	3.530	pCi/l	±	0.419	0.167			YES	27[c]	NE	600[c]
		Total Uranium[c]		*7.990*	*pCi/l*	=	*8.878*	*µg/L*				27[c]	NE	600[c]
863	No	Radium-226	No	0.189	pCi/l	±	0.171	0.331	U	U	YES	5[a]	5[a]	100[a]
863	No	Radium-228	YES	1.580	pCi/l	±	0.075	0.415			YES	5[a]	5[a]	100[a]
		Total Radium[a]		*0.189*	*pCi/l*							5[a]	5[a]	100[a]
863	No	Thorium-228	YES	0.495	pCi/l	±	0.163	0.19			YES	15[b]	NE	400
863	No	Thorium-230	YES	0.709	pCi/l	±	0.216	0.341			YES	15[b]	NE	300
863	No	Thorium-232	YES	0.221	pCi/l	±	0.126	0.168			YES	15[b]	NE	50
		Total Thorium[b]		*1.425*	*pCi/l*							15[b]	NE	NE
863	No	Uranium-234	YES	1.200	pCi/l	±	0.304	0.096	B	J	YES	27[c]	NE	600[c]
863	No	Uranium-235	YES	0.153	pCi/l	±	0.11	0.056			YES	27[c]	NE	600[c]
863	No	Uranium-238	YES	0.803	pCi/l	±	0.252	0.106		J	YES	27[c]	NE	600[c]
		Total Uranium[c]		*2.156*	*pCi/l*	=	*2.396*	*µg/L*				27[c]	NE	600[c]
A42	No	Radium-226	YES	0.341	pCi/l	±	0.21	0.321			YES	5[a]	5[a]	100[a]
A42	No	Radium-228	No	0.000	pCi/l	±	0.066	0.409	U	U	YES	5[a]	5[a]	100[a]
		Total Radium[a]		*0.341*	*pCi/l*							5[a]	5[a]	100[a]
A42	No	Thorium-228	YES	0.181	pCi/l	±	0.078	0.084			YES	15[b]	NE	400
A42	No	Thorium-230	No	0.057	pCi/l	±	0.136	0.286	U	U	YES	15[b]	NE	300
A42	No	Thorium-232	No	0.066	pCi/l	±	0.064	0.092	U	U	YES	15[b]	NE	50
		Total Thorium[b]		*0.181*	*pCi/l*							15[b]	NE	NE

Niagara Falls Storage Site

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Validated Radiological Data

Well ID	Filtered	Analysis	Detected	Result	Units		Uncertainity	Minimum Detectable Activity	Lab Qualifiers	Validated Qualifiers	Usability	NY State- Unrestricted Use**	NY State- Restricted Use -Industrial**	DOE Cleanup Criteria**
A42	No	Uranium-234	YES	18.600	pCi/l	±	0.956	0.202	B		YES	27[c]	NE	600[c]
A42	No	Uranium-235	No	0.242	pCi/l	±	0.179	0.255	U	U	YES	27[c]	NE	600[c]
A42	No	Uranium-238	YES	18.900	pCi/l	±	0.967	0.242			YES	27[c]	NE	600[c]
		Total Uranium[c]		*37.500*	*pCi/l*	=	*41.667*	*µg/L*				27[c]	NE	600[c]
A42-F	Yes	Radium-226	No	0.000	pCi/l	±	0.314	0.798	U	U	YES	5[a]	5[a]	100[a]
A42-F	Yes	Radium-228	No	0.000	pCi/l	±	0.059	0.296	U	U	YES	5[a]	5[a]	100[a]
		Total Radium[a]		*Non-detect*	*pCi/l*							5[a]	5[a]	100[a]
A42-F	Yes	Thorium-228	No	0.064	pCi/l	±	0.078	0.117	U	U	YES	15[b]	NE	400
A42-F	Yes	Thorium-230	No	0.050	pCi/l	±	0.125	0.279	U	U	YES	15[b]	NE	300
A42-F	Yes	Thorium-232	YES	0.132	pCi/l	±	0.078	0.092			YES	15[b]	NE	50
		Total Thorium[b]		*0.132*	*pCi/l*							15[b]	NE	NE
A42-F	Yes	Uranium-234	YES	17.200	pCi/l	±	1.3	0.249	B		YES	27[c]	NE	600[c]
A42-F	Yes	Uranium-235	YES	0.437	pCi/l	±	0.224	0.163			YES	27[c]	NE	600[c]
A42-F	Yes	Uranium-238	YES	15.700	pCi/l	±	1.24	0.243			YES	27[c]	NE	600[c]
		Total Uranium[c]		*33.337*	*pCi/l*	=	*37.041*	*µg/L*				27[c]	NE	600[c]
OW04A	No	Radium-226	No	0.281	pCi/l	±	0.203	0.32	U	U	YES	5[a]	5[a]	100[a]
OW04A	No	Radium-228	No	0.000	pCi/l	±	0.065	0.358	U	U	YES	5[a]	5[a]	100[a]
		Total Radium[a]		*Non-detect*	*pCi/l*							5[a]	5[a]	100[a]
OW04A	No	Thorium-228	No	0.086	pCi/l	±	0.124	0.196	U	U	YES	15[b]	NE	400
OW04A	No	Thorium-230	YES	0.343	pCi/l	±	0.163	0.298			YES	15[b]	NE	300
OW04A	No	Thorium-232	No	0.000	pCi/l	±	0.109	0.191	U	U	YES	15[b]	NE	50
		Total Thorium[b]		*0.343*	*pCi/l*							15[b]	NE	NE
OW04A	No	Uranium-234	YES	1.060	pCi/l	±	0.219	0.178	B		YES	27[c]	NE	600[c]
OW04A	No	Uranium-235	YES	0.269	pCi/l	±	0.11	0.096			YES	27[c]	NE	600[c]
OW04A	No	Uranium-238	YES	0.498	pCi/l	±	0.151	0.131		J	YES	27[c]	NE	600[c]
		Total Uranium[c]		*1.827*	*pCi/l*	=	*2.030*	*µg/L*				27[c]	NE	600[c]
OW04A-F	Yes	Radium-226	No	0.081	pCi/l	±	0.149	0.327	U	U	YES	5[a]	5[a]	100[a]
OW04A-F	Yes	Radium-228	No	0.143	pCi/l	±	0.06	0.329	U	U	YES	5[a]	5[a]	100[a]
		Total Radium[a]		*Non-detect*	*pCi/l*							5[a]	5[a]	100[a]
OW04A-F	Yes	Thorium-228	No	0.049	pCi/l	±	0.101	0.163	U	U	YES	15[b]	NE	400
OW04A-F	Yes	Thorium-230	YES	0.348	pCi/l	±	0.171	0.31			YES	15[b]	NE	300
OW04A-F	Yes	Thorium-232	No	0.106	pCi/l	±	0.089	0.12	U	U	YES	15[b]	NE	50
		Total Thorium[b]		*0.348*	*pCi/l*							15[b]	NE	NE
OW04A-F	Yes	Uranium-234	YES	0.914	pCi/l	±	0.21	0.168	B	J	YES	27[c]	NE	600[c]
OW04A-F	Yes	Uranium-235	YES	0.133	pCi/l	±	0.092	0.11			YES	27[c]	NE	600[c]
OW04A-F	Yes	Uranium-238	YES	0.490	pCi/l	±	0.157	0.141		J	YES	27[c]	NE	600[c]
		Total Uranium[c]		*1.537*	*pCi/l*	=	*1.708*	*µg/L*				27[c]	NE	600[c]
OW04B	No	Radium-226	No	0.051	pCi/l	±	0.145	0.346	U	U	YES	5[a]	5[a]	100[a]
OW04B	No	Radium-228	No	0.424	pCi/l	±	0.066	0.473	U	U	YES	5[a]	5[a]	100[a]
		Total Radium[a]		*Non-detect*	*pCi/l*							5[a]	5[a]	100[a]

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OW04B	No	Thorium-228	No	0.000	pCi/l	±	0.152	0.276	U	U	YES	15[b]	NE	400
OW04B	No	Thorium-230	No	0.108	pCi/l	±	0.2	0.38	U	U	YES	15[b]	NE	300
OW04B	No	Thorium-232	YES	0.212	pCi/l	±	0.118	0.164			YES	15[b]	NE	50
		Total Thorium[b]		*0.212*	*pCi/l*							15[b]	NE	NE
OW04B	No	Uranium-234	YES	9.270	pCi/l	±	0.709	0.131	B		YES	27[c]	NE	600[c]
OW04B	No	Uranium-235	YES	0.246	pCi/l	±	0.118	0.056			YES	27[c]	NE	600[c]
OW04B	No	Uranium-238	YES	8.890	pCi/l	±	0.693	0.092			YES	27[c]	NE	600[c]
		Total Uranium[c]		*18.406*	*pCi/l*	=	*20.451*	*µg/L*				27[c]	NE	600[c]
OW04B-F	Yes	Radium-226	YES	0.406	pCi/l	±	0.178	0.154			YES	5[a]	5[a]	100[a]
OW04B-F	Yes	Radium-228	No	0.000	pCi/l	±	0.058	0.34	U	U	YES	5[a]	5[a]	100[a]
		Total Radium[a]		*0.406*	*pCi/l*							5[a]	5[a]	100[a]
OW04B-F	Yes	Thorium-228	YES	0.181	pCi/l	±	0.089	0.094			YES	15[b]	NE	400
OW04B-F	Yes	Thorium-230	YES	0.366	pCi/l	±	0.16	0.288			YES	15[b]	NE	300
OW04B-F	Yes	Thorium-232	YES	0.104	pCi/l	±	0.065	0.066			YES	15[b]	NE	50
		Total Thorium[b]		*0.651*	*pCi/l*							15[b]	NE	NE
OW04B-F	Yes	Uranium-234	YES	9.450	pCi/l	±	0.783	0.166	B		YES	27[c]	NE	600[c]
OW04B-F	Yes	Uranium-235	YES	0.294	pCi/l	±	0.148	0.107			YES	27[c]	NE	600[c]
OW04B-F	Yes	Uranium-238	YES	9.360	pCi/l	±	0.779	0.149			YES	27[c]	NE	600[c]
		Total Uranium[c]		*19.104*	*pCi/l*	=	*21.227*	*µg/L*				27[c]	NE	600[c]
OW06A	No	Radium-226	No	0.091	pCi/l	±	0.119	0.231	U	U	YES	5[a]	5[a]	100[a]
OW06A	No	Radium-228	No	0.048	pCi/l	±	0.06	0.342	U	U	YES	5[a]	5[a]	100[a]
		Total Radium[a]		*Non-detect*	*pCi/l*							5[a]	5[a]	100[a]
OW06A	No	Thorium-228	YES	0.249	pCi/l	±	0.119	0.15			YES	15[b]	NE	400
OW06A	No	Thorium-230	No	0.102	pCi/l	±	0.162	0.327	U	U	YES	15[b]	NE	300
OW06A	No	Thorium-232	YES	0.162	pCi/l	±	0.091	0.109		J	YES	15[b]	NE	50
		Total Thorium[b]		*0.513*	*pCi/l*							15[b]	NE	NE
OW06A	No	Uranium-234	YES	0.379	pCi/l	±	0.162	0.137	B	R	NO	27[c]	NE	600[c]
OW06A	No	Uranium-235	YES	0.088	pCi/l	±	0.078	0.074			YES	27[c]	NE	600[c]
OW06A	No	Uranium-238	YES	0.111	pCi/l	±	0.089	0.088		R	NO	27[c]	NE	600[c]
		Total Uranium[c]		*0.578*	*pCi/l*	=	*0.642*	*µg/L*				27[c]	NE	600[c]
OW06A-F	Yes	Radium-226	No	0.000	pCi/l	±	0.147	0.585	U	U	YES	5[a]	5[a]	100[a]
OW06A-F	Yes	Radium-228	No	0.052	pCi/l	±	0.07	0.386	U	U	YES	5[a]	5[a]	100[a]
		Total Radium[a]		*Non-detect*	*pCi/l*							5[a]	5[a]	100[a]
OW06A-F	Yes	Thorium-228	YES	0.117	pCi/l	±	0.084	0.115			YES	15[b]	NE	400
OW06A-F	Yes	Thorium-230	No	0.197	pCi/l	±	0.171	0.326	U	U	YES	15[b]	NE	300
OW06A-F	Yes	Thorium-232	No	0.091	pCi/l	±	0.08	0.115	U	U	YES	15[b]	NE	50
		Total Thorium[b]		*0.117*	*pCi/l*							15[b]	NE	NE
OW06A-F	Yes	Uranium-234	YES	0.767	pCi/l	±	0.19	0.191	B	J	YES	27[c]	NE	600[c]
OW06A-F	Yes	Uranium-235	YES	0.148	pCi/l	±	0.092	0.117			YES	27[c]	NE	600[c]
OW06A-F	Yes	Uranium-238	YES	0.354	pCi/l	±	0.129	0.136		J	YES	27[c]	NE	600[c]
		Total Uranium[c]		*1.269*	*pCi/l*	=	*1.410*	*µg/L*				27[c]	NE	600[c]

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OW06B	No	Radium-226	No	0.163	pCi/l	±	0.193	0.383	U	U	YES	5[a]	5[a]	100[a]
OW06B	No	Radium-228	YES	0.792	pCi/l	±	0.066	0.412			YES	5[a]	5[a]	100[a]
		Total Radium[a]		*0.792*	*pCi/l*							5[a]	5[a]	100[a]
OW06B	No	Thorium-228	YES	0.244	pCi/l	±	0.113	0.143			YES	15[b]	NE	400
OW06B	No	Thorium-230	YES	0.696	pCi/l	±	0.188	0.295			YES	15[b]	NE	300
OW06B	No	Thorium-232	No	0.105	pCi/l	±	0.095	0.139	U	U	YES	15[b]	NE	50
		Total Thorium[b]		*0.940*	*pCi/l*							15[b]	NE	NE
OW06B	No	Uranium-234	YES	4.310	pCi/l	±	0.519	0.281	B		YES	27[c]	NE	600[c]
OW06B	No	Uranium-235	No	0.201	pCi/l	±	0.154	0.202	U	U	YES	27[c]	NE	600[c]
OW06B	No	Uranium-238	YES	3.480	pCi/l	±	0.47	0.27			YES	27[c]	NE	600[c]
		Total Uranium[c]		*7.790*	*pCi/l*	=	*8.656*	*µg/L*				27[c]	NE	600[c]
OW06B-F	Yes	Radium-226	YES	0.401	pCi/l	±	0.22	0.384			YES	5[a]	5[a]	100[a]
OW06B-F	Yes	Radium-228	YES	0.706	pCi/l	±	0.071	0.506			YES	5[a]	5[a]	100[a]
		Total Radium[a]		*1.412*	*pCi/l*							5[a]	5[a]	100[a]
OW06B-F	Yes	Thorium-228	No	0.000	pCi/l	±	0.11	0.201	U	U	YES	15[b]	NE	400
OW06B-F	Yes	Thorium-230	No	0.112	pCi/l	±	0.135	0.293	U	U	YES	15[b]	NE	300
OW06B-F	Yes	Thorium-232	YES	0.070	pCi/l	±	0.055	0.053			YES	15[b]	NE	50
		Total Thorium[b]		*0.070*	*pCi/l*							15[b]	NE	NE
OW06B-F	Yes	Uranium-234	YES	4.420	pCi/l	±	0.529	0.091	B		YES	27[c]	NE	600[c]
OW06B-F	Yes	Uranium-235	No	0.049	pCi/l	±	0.096	0.147	U	U	YES	27[c]	NE	600[c]
OW06B-F	Yes	Uranium-238	YES	3.160	pCi/l	±	0.452	0.138			YES	27[c]	NE	600[c]
		Total Uranium[c]		*7.580*	*pCi/l*	=	*8.422*	*µg/L*				27[c]	NE	600[c]
OW15A	No	Radium-226	No	0.257	pCi/l	±	0.191	0.321	U	U	YES	5[a]	5[a]	100[a]
OW15A	No	Radium-228	YES	1.430	pCi/l	±	0.063	0.415			YES	5[a]	5[a]	100[a]
		Total Radium[a]		*1.430*	*pCi/l*							5[a]	5[a]	100[a]
OW15A	No	Thorium-228	YES	0.293	pCi/l	±	0.132	0.169			YES	15[b]	NE	400
OW15A	No	Thorium-230	YES	0.432	pCi/l	±	0.213	0.37			YES	15[b]	NE	300
OW15A	No	Thorium-232	YES	0.304	pCi/l	±	0.131	0.164			YES	15[b]	NE	50
		Total Thorium[b]		*1.029*	*pCi/l*							15[b]	NE	NE
OW15A	No	Uranium-234	YES	0.836	pCi/l	±	0.215	0.195	B	J	YES	27[c]	NE	600[c]
OW15A	No	Uranium-235	YES	0.145	pCi/l	±	0.105	0.134			YES	27[c]	NE	600[c]
OW15A	No	Uranium-238	YES	0.249	pCi/l	±	0.136	0.166		J	YES	27[c]	NE	600[c]
		Total Uranium[c]		*1.230*	*pCi/l*	=	*1.367*	*µg/L*				27[c]	NE	600[c]
OW15A-F	Yes	Radium-226	No	0.141	pCi/l	±	0.135	0.241	U	U	YES	5[a]	5[a]	100[a]
OW15A-F	Yes	Radium-228	No	0.066	pCi/l	±	0.052	0.29	U	U	YES	5[a]	5[a]	100[a]
		Total Radium[a]		*Non-detect*	*pCi/l*							5[a]	5[a]	100[a]
OW15A-F	Yes	Thorium-228	YES	0.189	pCi/l	±	0.095	0.115			YES	15[b]	NE	400
OW15A-F	Yes	Thorium-230	YES	0.481	pCi/l	±	0.197	0.337			YES	15[b]	NE	300
OW15A-F	Yes	Thorium-232	No	0.101	pCi/l	±	0.085	0.119	U	U	YES	15[b]	NE	50
		Total Thorium[b]		*0.670*	*pCi/l*							15[b]	NE	NE
OW15A-F	Yes	Uranium-234	YES	0.494	pCi/l	±	0.189	0.232	B	J	YES	27[c]	NE	600[c]
OW15A-F	Yes	Uranium-235	YES	0.115	pCi/l	±	0.088	0.112			YES	27[c]	NE	600[c]
OW15A-F	Yes	Uranium-238	YES	0.161	pCi/l	±	0.102	0.126		J	YES	27[c]	NE	600[c]
		Total Uranium[c]		*0.770*	*pCi/l*	=	*0.856*	*µg/L*				27[c]	NE	600[c]

Niagara Falls Storage Site

Groundwater Wells Sampled on 24JUN2010

After 23JUN2010 Ontario-Quebec Border 5.0 Mag. Earth Quake

Validated Radiological Data

Well ID	Filtered	Analysis	Detected	Result	Units		Uncertainity	Minimum Detectable Activity	Lab Qualifiers	Validated Qualifiers	Usability	NY State- Unrestricted Use**	NY State- Restricted Use -Industrial**	DOE Cleanup Criteria**

Column Headings:

Well ID -NFSS Well Identifier
"-F" denotes sample was field filtered

Filtered - Yes =Field filtered with in-line 0.45 micron filter
No = Not filtered
*Well #: 863 purged dry before obtaining a filtered sample

Analysis - radiological isotope analysis:

Radiological Isotope	Method
Radium-226	SM 7500 Ra B M
Radium-228	EPA 904
Thorium-228, 230 and 232	LANL ER 200 M
Uranium-234, 235 and 238	ASTM D 3972/DOE U-02

Detected - YES =radiological isotope detected (Result) above Minimum Detection Activity
No = radiological isotope not detected above Minimum Detectable Activity

Units: pCi/l -Pico curies per liter
Uncertainty -Calculated +/- of radiological result
Minimum Detectable Activity - Minimum detectable activity for that radiological isotope.

Lab Qualifiers - Blank/Empty field - finding above minimum detectable activity
U - non-detect
B - method blank result exceeds minimum detectable activity

Validated Qualifiers -
Blank/Empty field - finding above minimum detectable activity
U - non-detect
J - estimated value for finding above minimum detectable activity
R- finding rejected due to possible bias from laboratory contamination

Usability: YES – data finding is usable
NO – data finding is not usable

**** Groundwater at NFSS is not a drinking water source.**

The above federal and state regulation concentrations are for comparative purposes only.

Federal Regulations:

National Primary Drinking Water Regulations 40CFR141.62&63

US Dept of Energy:

USDOE derived concentration guide (USDOE Order 5400.5) for drinking water.
NE - Not Established

New York State:

New York State Standards -Water Quality Criteria (class GA) per 6 NYCRR, Part 703.
NE - Not Established

a. Applies to the sum of Ra-226 and Ra-228
b. "Adjusted" gross alpha MCL of 15 pCi/, including Thorium isotopes, excluding radon and uranium
-National Primary Drinking Water Regulations; Radionuclide; Final Rule (Federal Register -December 7, 2000)
c. Sum of Uranium Isotopes (27 pCi/l or 30 µg/L).