

**SUMMARY OF RADIOLOGICAL ANALYSES OF GROUNDWATER MONITORING WELLS
WEST JEFFERSON SITE - CY 2005**

uCi/ml

<i>Jun-05</i> NUCLIDE	WELL 100	WELL 110R	WELL 118	WELL 168	WELL 206	WELL 300	WELL 306	WELL 506	WELL 601	WELL C-03	WELL C-09
Co-60	6.66E-09	4.83E-09	6.45E-09	4.47E-09	6.70E-09	4.88E-09	7.00E-09	5.36E-09	6.43E-09	4.52E-09	7.24E-09
Sr-90	<i>1.66E-09</i> *	9.40E-10	<i>2.07E-09</i> *	<i>4.49E-09</i> *	<i>1.57E-09</i> *	6.70E-10	<i>1.20E-09</i> *	6.20E-10	7.60E-10	9.80E-10	<i>1.71E-08</i> *
Sb-125	1.43E-08	1.27E-08	1.76E-08	1.32E-08	1.65E-08	1.28E-08	1.71E-08	1.44E-08	1.46E-08	1.22E-08	1.51E-08
Cs-134	5.31E-09	4.36E-09	5.54E-09	4.35E-09	6.29E-09	4.81E-09	6.14E-09	4.76E-09	5.88E-09	4.77E-09	5.65E-09
Cs-137	5.72E-09	5.25E-09	6.20E-09	4.79E-09	4.12E-09	5.10E-09	7.22E-09	4.52E-09	5.91E-09	5.32E-09	6.34E-09
Eu-152	1.36E-08	1.19E-08	1.37E-08	1.18E-08	1.29E-08	1.06E-08	1.28E-08	1.17E-08	1.30E-08	1.15E-08	1.37E-08
Eu-154	9.35E-09	8.33E-09	9.00E-09	8.00E-09	9.04E-09	7.44E-09	9.17E-09	8.50E-09	9.37E-09	8.43E-09	9.66E-09
Am-241	1.60E-08	1.30E-08	1.58E-08	1.36E-08	1.45E-08	1.28E-08	1.68E-08	1.30E-08	1.46E-08	1.36E-08	1.46E-08
Pu-238	7.90E-11	7.00E-11	8.20E-11	6.60E-11	4.90E-11	6.90E-11	1.20E-10	7.90E-11	6.90E-11	1.80E-10	8.90E-11
Pu-239	5.20E-11	4.50E-11	3.00E-11	<i>1.24E-10</i> *	5.40E-11	4.70E-11	<i>6.40E-10</i> *	<i>1.46E-10</i> *	3.00E-11	<i>1.25E-09</i> *	<i>1.53E-10</i> *
U-235 (g)	3.65E-08	2.99E-08	3.52E-08	2.86E-08	3.69E-08	3.13E-08	3.85E-08	3.15E-08	3.69E-08	3.22E-08	3.54E-08
U-238 (g)	1.56E-07	1.37E-07	1.61E-07	1.27E-07	1.53E-07	1.33E-07	1.57E-07	1.39E-07	1.57E-07	1.35E-07	1.58E-07
U-234 (a)	<i>2.04E-09</i> *	<i>1.92E-08</i> *	<i>1.58E-09</i> *	<i>1.21E-08</i> *	<i>1.49E-09</i> *	<i>1.00E-09</i> *	<i>2.02E-09</i> *	<i>3.11E-09</i> *	<i>1.45E-09</i> *	<i>4.42E-09</i> *	<i>1.13E-09</i> *
U-235 (a)	<i>1.86E-10</i> *	<i>9.60E-10</i> *	<i>1.47E-10</i> *	<i>9.00E-10</i> *	<i>7.50E-11</i> *	4.80E-11	1.10E-10	<i>1.68E-10</i> *	8.20E-11	<i>2.40E-10</i> *	<i>8.80E-11</i> *
U-238 (a)	<i>1.72E-09</i> *	<i>1.73E-08</i> *	<i>1.32E-09</i> *	<i>1.43E-08</i> *	<i>7.80E-10</i> *	<i>4.70E-10</i> *	1.88E-09	<i>2.54E-09</i> *	<i>1.71E-09</i> *	<i>3.56E-09</i> *	<i>7.90E-10</i> *

* DENOTES CALCULATED VALUE, ALL OTHER VALUES ARE LESS THAN OR EQUAL TO MDA

(a) DENOTES ANALYSIS PERFORMED BY ALPHA SPECTROSCOPY

(g) DENOTES ANALYSIS PERFORMED BY GAMMA SPECTROSCOPY
