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**Station A Exhaust Air Monitoring at the Waste Isolation Pilot Plant/ New Mexico Conducted
by NMED/DOE OB, July – December 2008**

The New Mexico Environment Department (NMED) DOE Oversight Bureau has compiled and assessed data collected from Station A for July through December 2008. The following data report shows results for selected analytes as determined by ALS / Paragon Analytical Services.

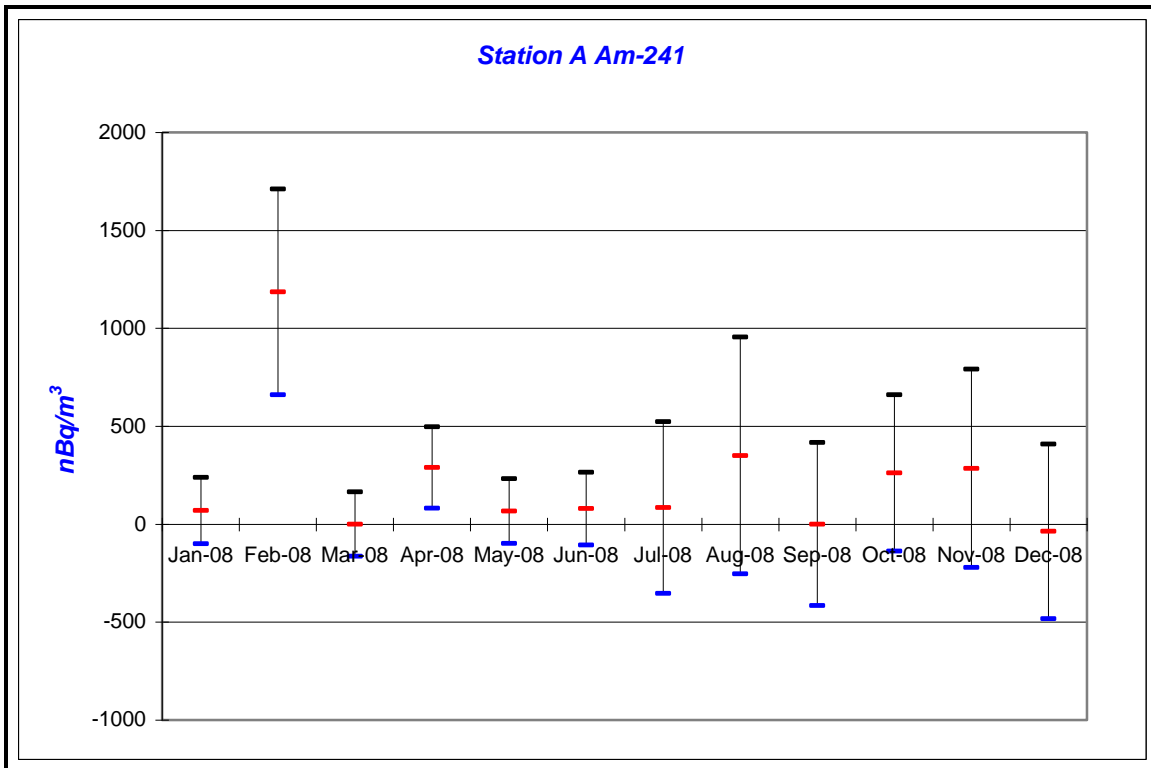
The accompanying graphs for each analyte indicate the results in nBq/m^3 , $\pm 2\text{TPU}$.

Response

Questions and or comments may be addressed to Thomas Kesterson by phone at (575)-887-6851, by e-mail at thomasl.kesterson@state.nm.us, or to the address in the above letterhead.

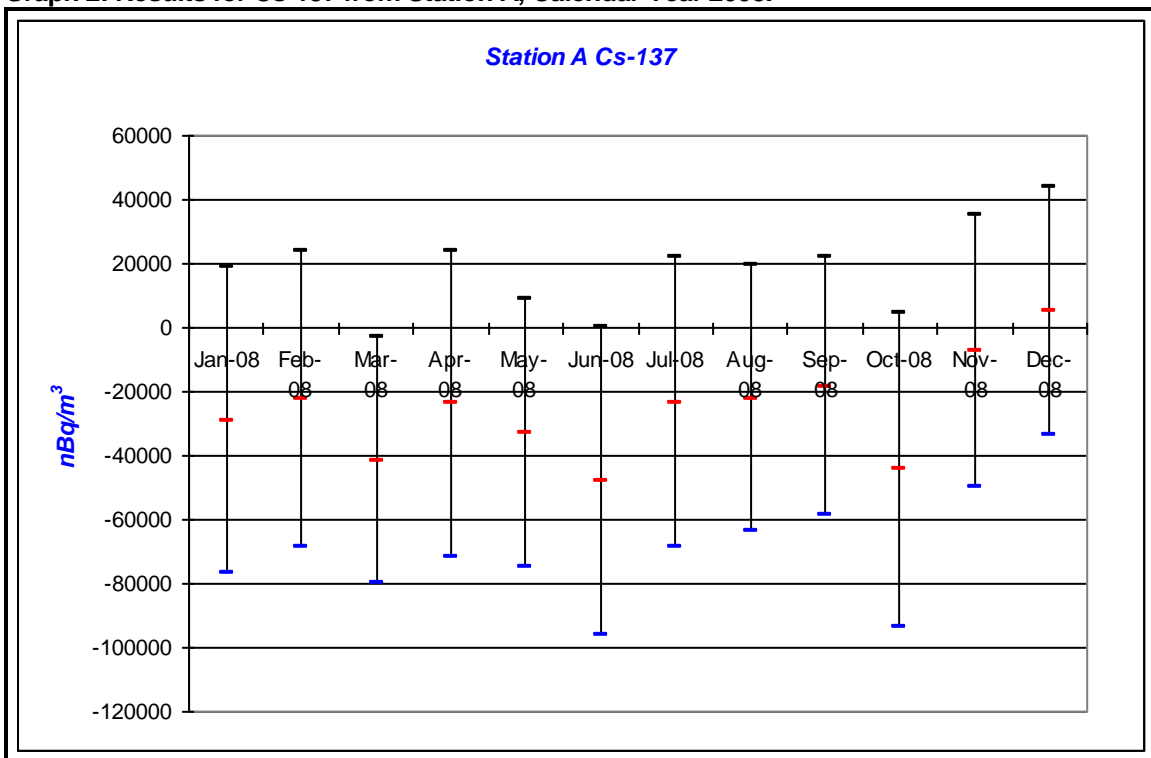
- Enclosures:
- (1) Graph 1- Results for Am-241 from Station A, Calendar Year 2008.
 - (2) Graph 2 -Results for Cs-137 from Station A, Calendar Year 2008.
 - (3) Graph 3- Results for Pu-238 from Station A, Calendar Year 2008.
 - (4) Graph 4 - Results for Pu-239/240 from Station A, Calendar Year 2008.
 - (5) Graph 5 -Results for Sr-90 from Station A, Calendar Year 2008.
 - (6) Graph 6 -Results for U-234 from Station A, Calendar Year 2008.
 - (7) Graph 7- Results for U-235 from Station A, Calendar Year 2008.
 - (8) Graph 8 -Results for U-238 from Station A, Calendar Year 2008.
 - (9) Table 1 – Laboratory Results for Selected Analytes from Station A, January – December 2008.

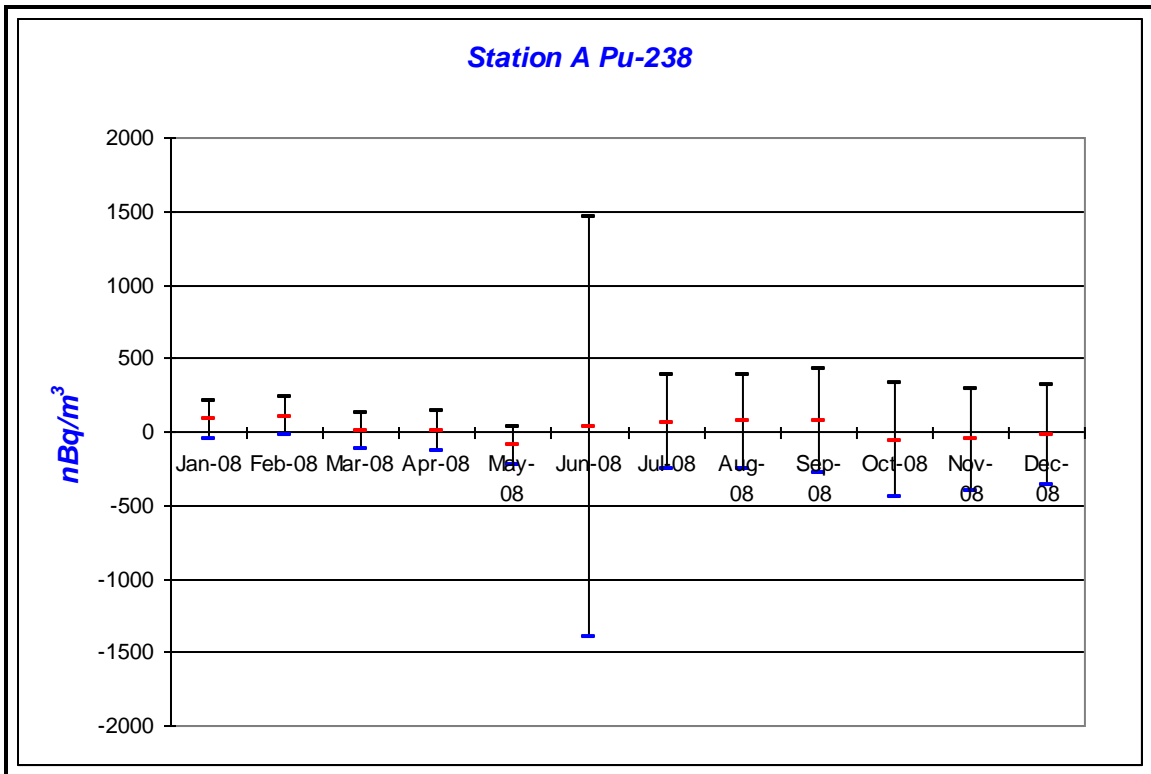
Distribution: Jody Plum, DOE
Dan Ferguson, DOE
Tom Skibitski, Chief, DOE-OB



Graph 1: Results for Am-241 from Station A, Calendar Year 2008.

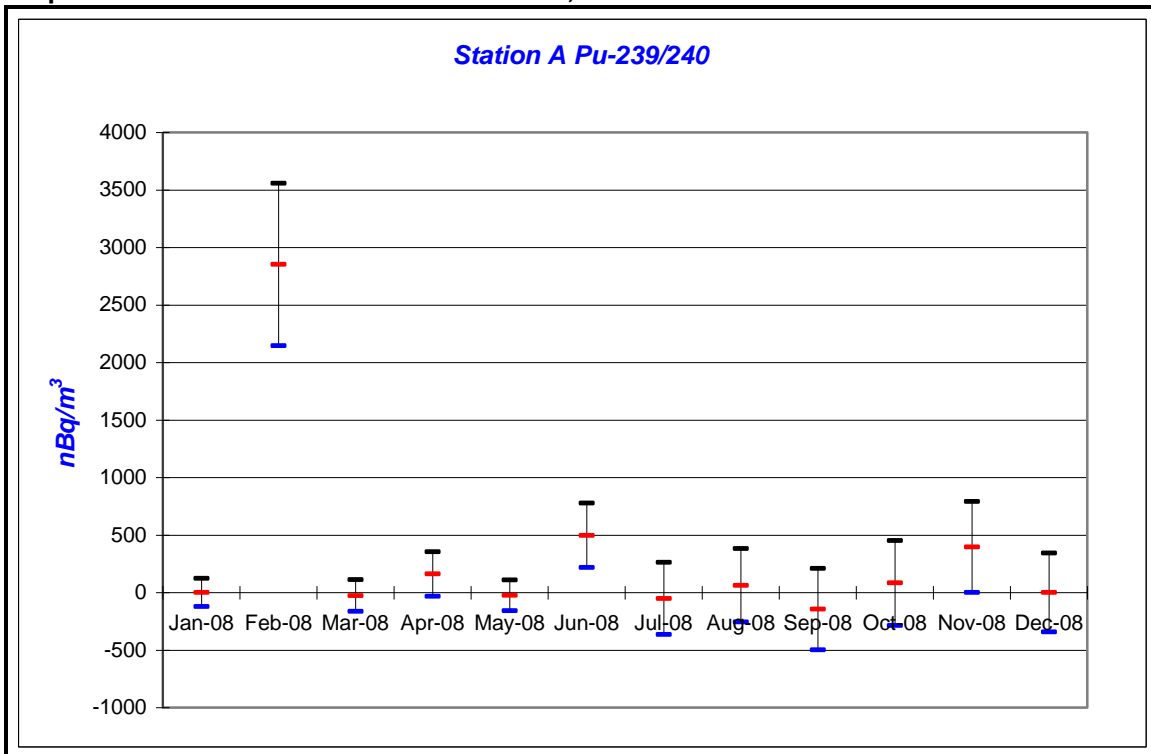
Graph 2: Results for Cs-137 from Station A, Calendar Year 2008.

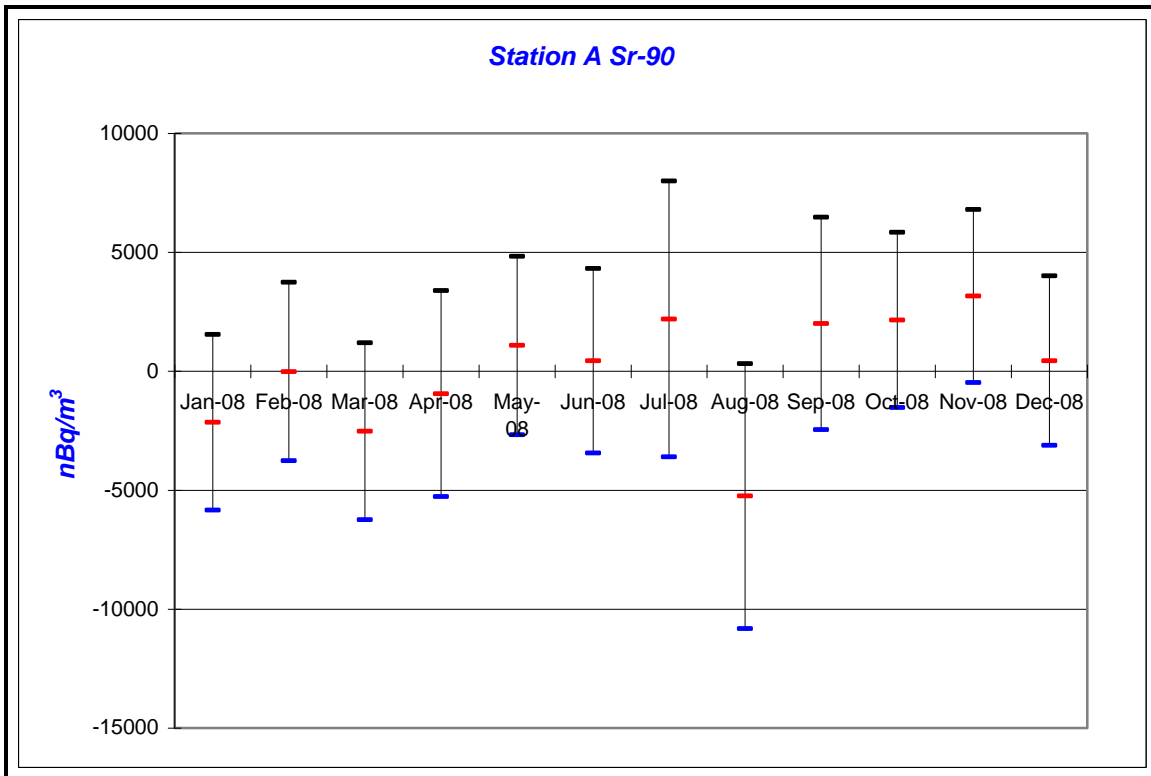




Graph 3: Results for Pu-238 from Station A, Calendar Year 2008.

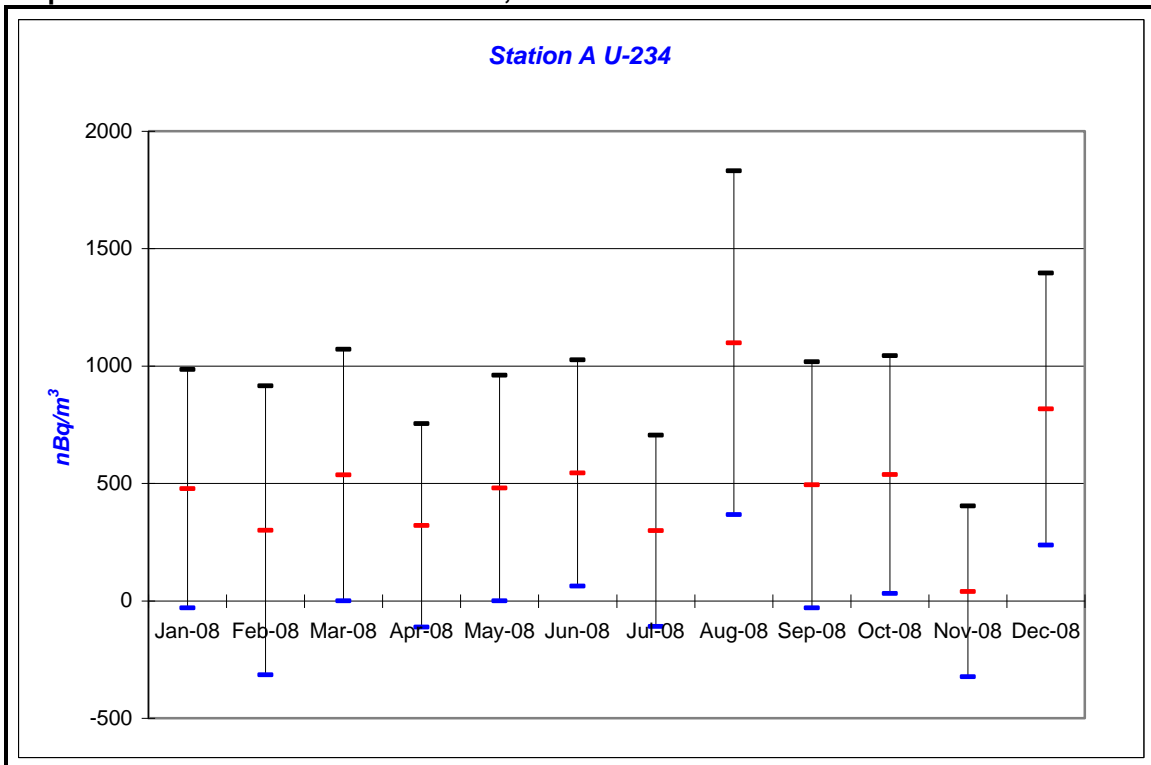
Graph 4: Results for Pu-239/240 from Station A, Calendar Year 2008.

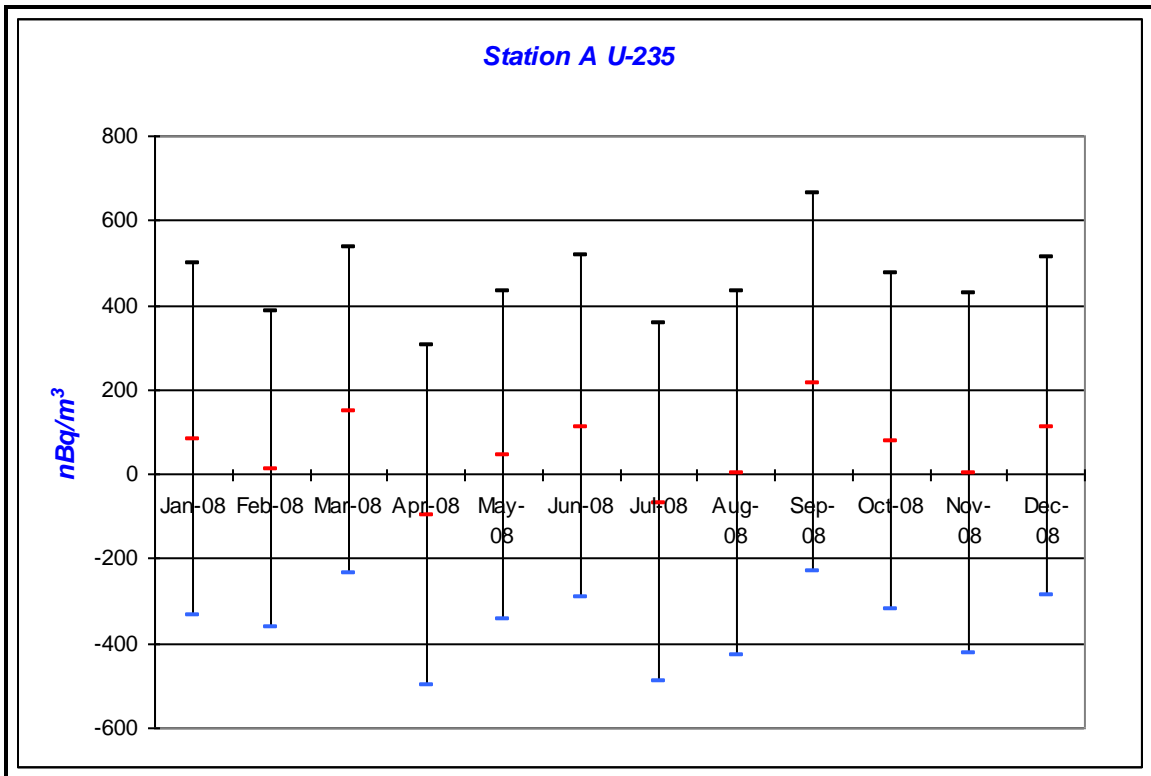




Graph 5: Results for Sr-90 from Station A, Calendar Year 2008.

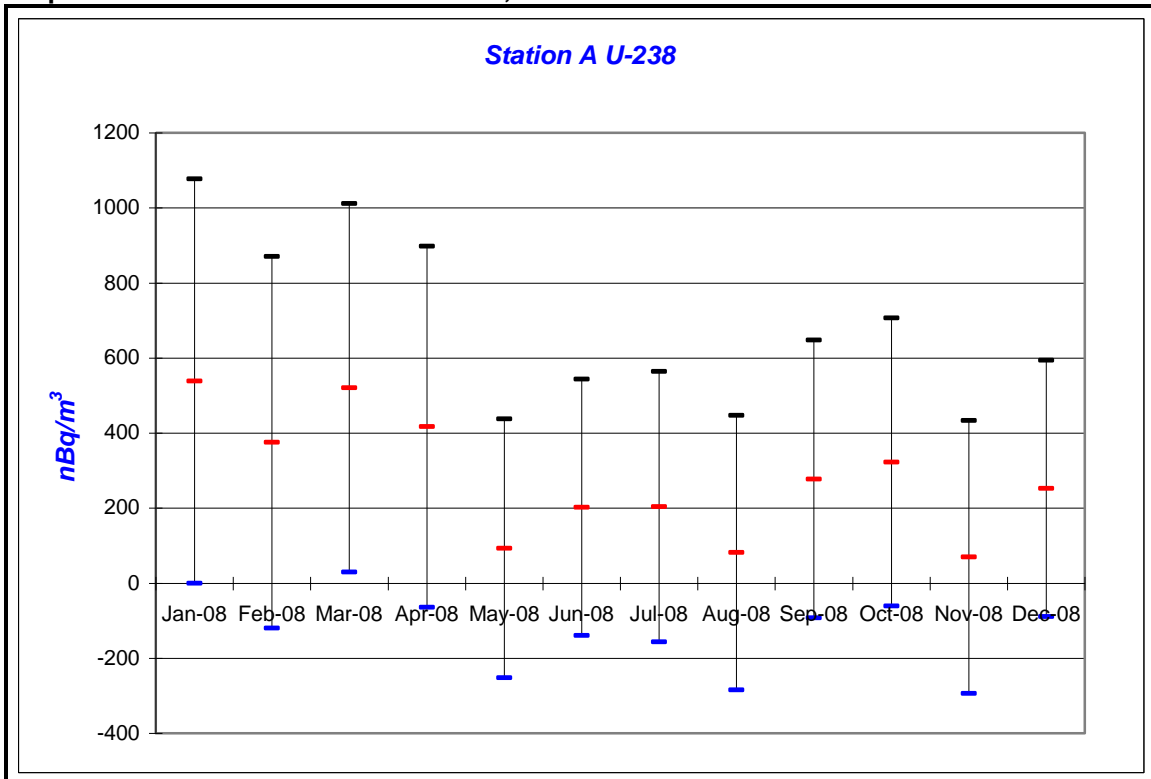
Graph 6: Results for U-234 from Station A, Calendar Year 2008.





Graph 7: Results for U-235 from Station A, Calendar Year 2008.

Graph 8: Results for U-238 from Station A, Calendar Year 2008.



Laboratory Results for Selected Analytes from Station A, January – December 2008.

Analyte	Month	Result	2TPU	MDC	Flag	Result	2 σ
		(pCi/composite)				(nBq/m ³)	
Am-241	Jan-08	0.005	0.011	0.006	U	69	169
	Feb-08	0.079	0.035	0.033	LT	1186	525
	Mar-08	0.000	0.011	0.016	U	0	164
	Apr-08	0.018	0.013	0.006	LT	289	208
	May-08	0.005	0.011	0.016	U	67	165
	Jun-08	0.005	0.012	0.024	U	79	186
	Jul-08	0.005	0.028	0.040	U	85	439
	Aug-08	0.022	0.038	0.078	U	350	605
	Sep-08	0.000	0.027	0.020	U	0	416
	Oct-08	0.017	0.026	0.045	U	261	399
	Nov-08	0.018	0.032	0.024	U	285	506
	Dec-08	-0.003	0.030	0.043	U	-37	445

Cs-137	Jan-08	-1.9	3.1	5.3	U, M	-29234	47698
	Feb-08	-1.5	3.1	5.3	U, M	-22512	46524
	Mar-08	-2.8	2.6	4.6	U, M	-41638	38664
	Apr-08	-1.5	3.0	5.2	U, M	-24048	48096
	May-08	-2.2	2.8	4.8	U, M	-32992	41989
	Jun-08	-3.1	3.1	5.5	U, M	-48146	48146
	Jul-08	-1.5	2.9	5.0	U, M	-23506	45445
	Aug-08	-1.4	2.6	4.5	U	-22289	41394
	Sep-08	-1.2	2.6	4.5	U	-18493	40068
	Oct-08	-2.9	3.2	5.6	U, M	-44518	49123
	Nov-08	-0.5	2.7	4.7	U	-7430	42686
	Dec-08	0.3	2.6	4.3	U	5048	38602

Pu-238	Jan-08	0.0050	0.0081	0.0045	LT	77	125
	Feb-08	0.0068	0.0084	0.0046	LT	102	126
	Mar-08	0.0000	0.0087	0.0048	U	0	129
	Apr-08	0.0000	0.0086	0.0130	U	0	138
	May-08	-0.0068	0.0083	0.0200	U	-102	124
	Jun-08	0.0019	0.0920	0.0051	U	30	1429
	Jul-08	0.0039	0.0200	0.0300	U	61	313
	Aug-08	0.0039	0.0200	0.0290	U	62	318
	Sep-08	0.0044	0.0230	0.0330	U	68	354
	Oct-08	-0.0041	0.0250	0.0430	U	-63	384
	Nov-08	-0.0037	0.0220	0.0390	U	-59	348
	Dec-08	-0.0019	0.0230	0.0330	U	-28	341

Analyte	Month	Result (pCi/composite)	2TPU	MDC	Flag	Result (nBq/m ³)	2 σ
Pu-239/240	Jan-08	0.000	0.008	0.012	U	0	123
	Feb-08	0.190	0.047	0.012		2851	705
	Mar-08	-0.002	0.009	0.021	U	-27	138
	Apr-08	0.010	0.012	0.019	U	160	192
	May-08	-0.002	0.009	0.020	U	-25	133
	Jun-08	0.032	0.018	0.017	LT	497	280
	Jul-08	-0.003	0.020	0.035	U	-52	313
	Aug-08	0.004	0.020	0.029	U	62	318
	Sep-08	-0.009	0.023	0.053	U	-145	354
	Oct-08	0.005	0.024	0.053	U	83	368
	Nov-08	0.025	0.025	0.017	LT	395	395
	Dec-08	0.000	0.023	0.017	U	0	341
Sr-90	Jan-08	-0.140	0.24	0.59	U	-2154	3693
	Feb-08	-0.001	0.25	0.60	U	-18	3752
	Mar-08	-0.170	0.25	0.63	U	-2528	3718
	Apr-08	-0.059	0.27	0.66	U	-946	4329
	May-08	0.072	0.25	0.59	U	1080	3749
	Jun-08	0.028	0.25	0.58	U	435	3883
	Jul-08	0.140	0.37	0.81	U	2194	5798
	Aug-08	-0.330	0.35	0.83	U	-5254	5572
	Sep-08	0.130	0.29	0.64	U	2003	4469
	Oct-08	0.140	0.24	0.53	U	2149	3684
	Nov-08	0.200	0.23	0.48	U	3162	3636
	Dec-08	0.150	0.24	0.52	U	2227	3563
U-234	Jan-08	0.031	0.033	0.050	U	477	508
	Feb-08	0.020	0.041	0.087	U	300	615
	Mar-08	0.036	0.036	0.057	U	535	535
	Apr-08	0.020	0.027	0.049	U	321	433
	May-08	0.032	0.032	0.044	U	480	480
	Jun-08	0.035	0.031	0.032	LT	544	481
	Jul-08	0.019	0.026	0.045	U	298	407
	Aug-08	0.069	0.046	0.050	LT	1099	732
	Sep-08	0.320	0.034	0.052	U	493	524
	Oct-08	0.035	0.033	0.047	U	537	507
	Nov-08	0.003	0.023	0.040	U	40	364
	Dec-08	0.055	0.039	0.034	LT	817	579

Analyte	Month	Result (pCi/composite)	2TPU	MDC	Flag	Result (nBq/m ³)	2 σ
U-235	Jan-08	0.005	0.027	0.039	U	80	415
	Feb-08	0.001	0.025	0.050	U	11	375
	Mar-08	0.010	0.026	0.045	U	149	387
	Apr-08	-0.006	0.025	0.049	U	-98	401
	May-08	0.003	0.026	0.046	U	43	390
	Jun-08	0.007	0.026	0.019	U	110	404
	Jul-08	-0.004	0.027	0.047	U	-69	423
	Aug-08	0.000	0.027	0.020	U	0	430
	Sep-08	0.014	0.029	0.062	U	216	447
	Oct-08	0.005	0.026	0.037	U	77	399
	Nov-08	0.000	0.027	0.020	U	0	427
	Dec-08	0.008	0.027	0.020	U	111	401

U-238	Jan-08	0.035	0.035	0.054	U	539	539
	Feb-08	0.025	0.033	0.061	U	375	495
	Mar-08	0.035	0.033	0.047	U	520	491
	Apr-08	0.026	0.030	0.049	U	417	481
	May-08	0.006	0.023	0.017	U	93	345
	Jun-08	0.013	0.022	0.043	U	202	342
	Jul-08	0.013	0.023	0.017	U	204	360
	Aug-08	0.005	0.023	0.050	U	81	366
	Sep-08	0.018	0.024	0.035	U	277	370
	Oct-08	0.021	0.025	0.038	U	323	384
	Nov-08	0.004	0.023	0.033	U	70	364
	Dec-08	0.017	0.023	0.034	U	252	341

Qualifiers / Flags:

U – Result is less than the Sample Specific MDC.

LT – result is less than Requested MDC, greater than Sample Specific MDC.

M – The requested MDC was not met.

Abbreviations:

TPU – Total Propagated Uncertainty.

MDC – Minimum Detectable Concentration

