



**NEW MEXICO
ENVIRONMENT DEPARTMENT**



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**Station A Exhaust Air Monitoring at the Waste Isolation Pilot Plant Conducted by the
New Mexico Environment Department, DOE Oversight Bureau, January – March 2010**

The New Mexico Environment Department (NMED) DOE Oversight Bureau has compiled and assessed data collected from Station A for January through March, 2010. The accompanying data report shows results for selected analytes as determined by an independent analytical laboratory.

For Am-241, results for January through March were above the sample Minimum Detectable Concentration (MDC), but below the requested MDC. For the remaining requested analytes, results indicated no detections above the sample MDC.

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.

Enclosure: (1) Table 1 – Laboratory Results for Selected Analytes from Station A, January – March, 2010.
(2) Definitions

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Table 1: Laboratory Results for Selected Analytes from Station A, January – March, 2010.

<i>Jan-10</i> <i>Station A</i>	Analytical Results Monthly Composite Sample					<i>Data Summaries</i>	
	Result	2 s	Sample MDC	Requested MDC	Lab Flag	Result	2 s
	pCi/composite					nBq/m ³	
Sr-90	-0.11	0.29	0.62	1	U	-1667	4395
Pu-239/40	0.0031	0.024	0.046	0.1	U	47	364
Pu-238	0.0015	0.024	0.037	0.1	U	23	364
Am-241	0.014	0.020	0.013	0.1	LT	212	303
Cs-137	-2.00	3.10	5.30	10	U	-30311	46983
U-234	0.047	0.044	0.067	0.2	U	712	667
U-235	0.013	0.027	0.017	0.2	U	197	409
U-238	0.024	0.036	0.063	0.2	U	364	546
Total Air Flow	(m ³) 2441	(ft ³) 86235					

<i>Feb-10</i> <i>Station A</i>	Analytical Results Monthly Composite Sample					<i>Data Summaries</i>	
	Result	2 s	Sample MDC	Requested MDC	Lab Flag	Result	2 s
	pCi/composite					nBq/m ³	
Sr-90	-0.021	0.29	0.600	1	U	-368	5075
Pu-239/40	0.0027	0.021	0.040	0.1	U	47	368
Pu-238	-0.0035	0.021	0.032	0.1	U	-61	368
Am-241	0.036	0.026	0.012	0.1	LT	630	455
Cs-137	2.50	3.90	6.40	10	U	43754	68256
U-234	0.014	0.026	0.048	0.2	U	245	455
U-235	0.019	0.025	0.039	0.2	U	333	438
U-238	0.018	0.025	0.042	0.2	U	315	438
Total Air Flow	(m ³) 2114	(ft ³) 74676					

<i>Mar-10</i> <i>Station A</i>	Analytical Results Monthly Composite Sample					<i>Data Summaries</i>	
	Result	2 s	Sample MDC	Requested MDC	Lab Flag	Result	2 s
	pCi/composite					nBq/m ³	
Sr-90	-0.039	0.27	0.57	1	U	-535	3703
Pu-239/40	0.0028	0.022	0.042	0.1	U	38	302
Pu-238	0	0.022	0.014	0.1	U	0	302
Am-241	0.030	0.023	0.011	0.1	LT	411	315
Cs-137	-0.64	4.00	7.10	10	U	-8776	54853
U-234	0.007	0.038	0.079	0.2	U	96	521
U-235	0	0.028	0.018	0.2	U	0	384
U-238	0.013	0.024	0.038	0.2	U	178	329
Total Air Flow	(m ³) 2698	(ft ³) 95306					

Defintions:**Qualifiers / Flags**

U – Result is less than the sample specific MDC.

LT – Results is less than Requested MDC, greater than sample specific MDC.

Abbreviations:

TPU – Total Propagated Uncertainty

MDC – Minimum Detectable Concentration