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July 13, 2009

Jody Plum
Department of Energy
Carlsbad Field Office
Carlsbad, NM 88220

Subject: Ambient Air Monitoring at the Waste Isolation Pilot Plant Conducted by NMED/DOE OB for the Fourth Calendar Quarter 2008

Mr. Plum,

This letter transmits the subject report for your review.

The monitoring results are provided to DOE for review and comment prior to their release as final to other State of New Mexico and federal agencies, the NMED website and interested members of the public. If you have any questions, or would like copies of the complete data set, please contact me at 575-887-6851.

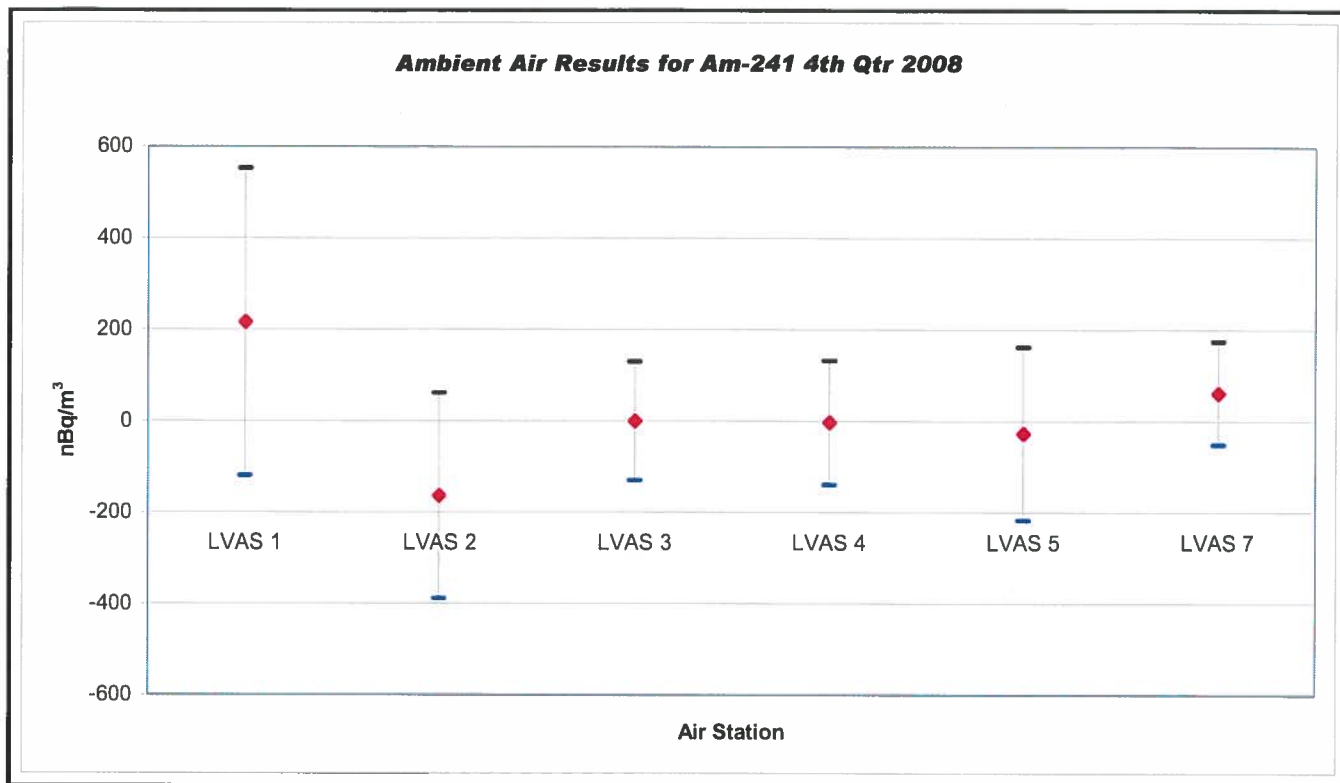
Sincerely,

Thomas Kesterson
Environmental Specialist –O
WIPP Oversight Section

Enclosure: Draft data submittal entitled: "Ambient Air Monitoring at the Waste Isolation Pilot Plant Conducted by NMED/DOE OB for the Fourth Calendar Quarter 2008" with the following enclosures:

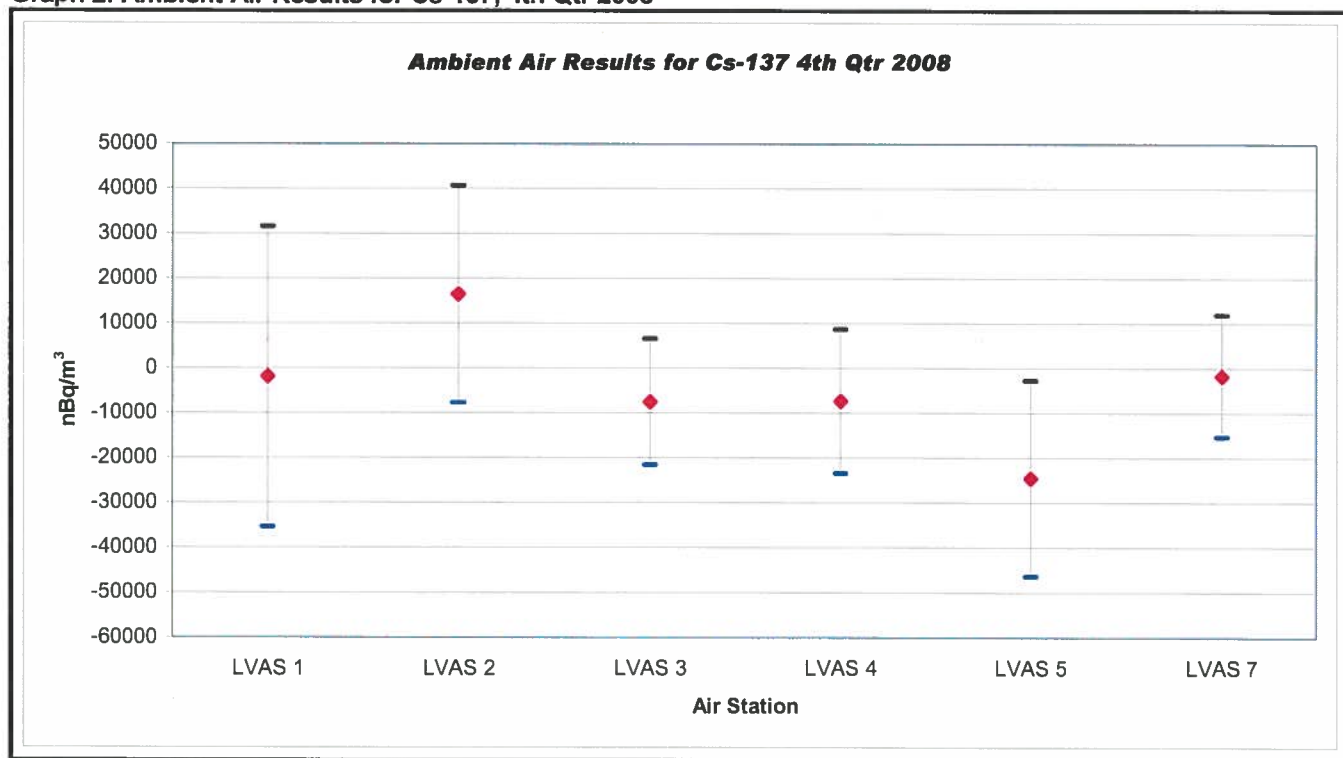
1. Graph 1 – Ambient Air Results for Am-241, 4th Calendar Qtr 2008.
2. Graph 2 – Ambient Air Results for Cs-137, 4th Calendar Qtr 2008.
3. Graph 3 – Ambient Air Results for Pu-238, 4th Calendar Qtr 2008.
4. Graph 4 – Ambient Air Results for Pu-239/240, 4th Calendar Qtr 2008.
5. Graph 5 – Ambient Air Results for Sr-90, 4th Calendar Qtr 2008.
6. Table 1 - Fourth Calendar Quarter 2008 Ambient Air Laboratory Results.

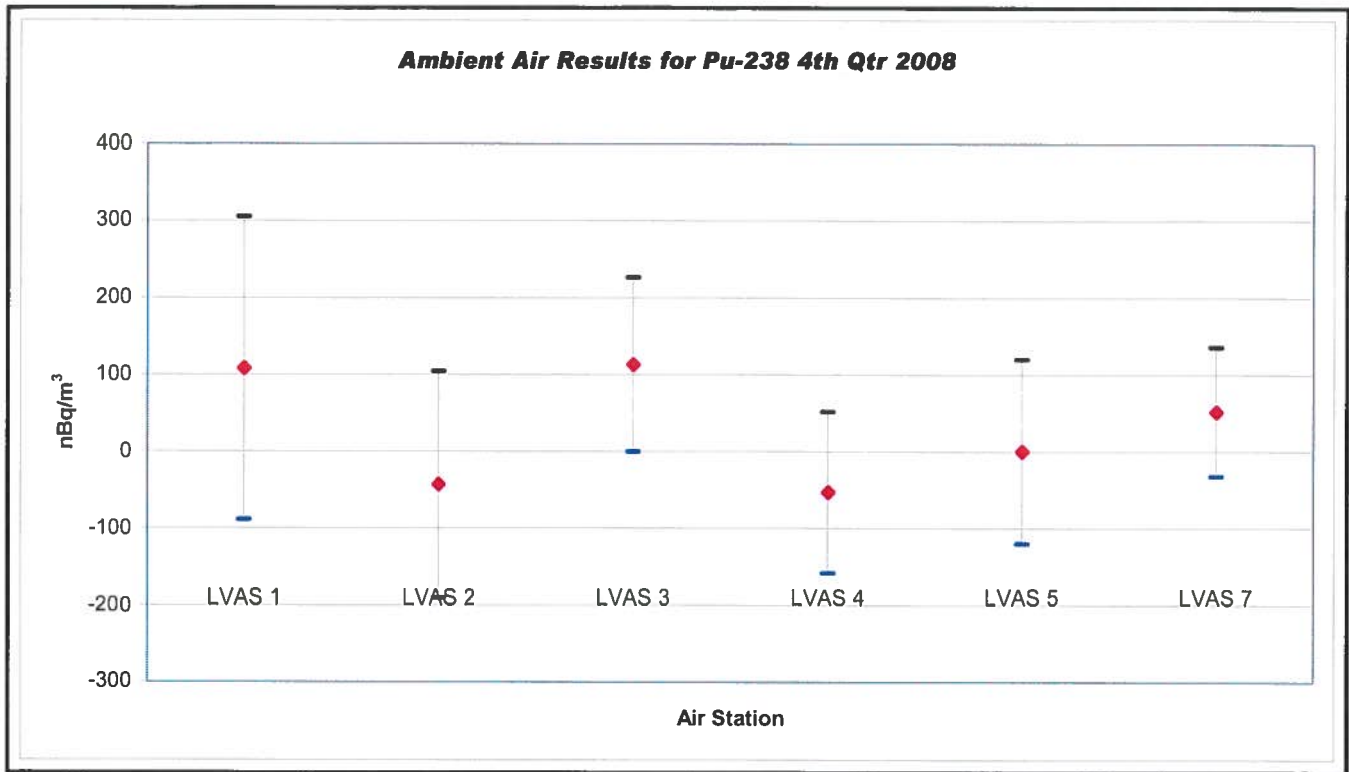
Cc: Dan Ferguson, Site Regulatory Specialist, DOE / CBFO
Tom Skibitski, Bureau Chief, NMED DOE OB



Graph 1: Ambient Air Results for Am-241, 4th Qtr 2008

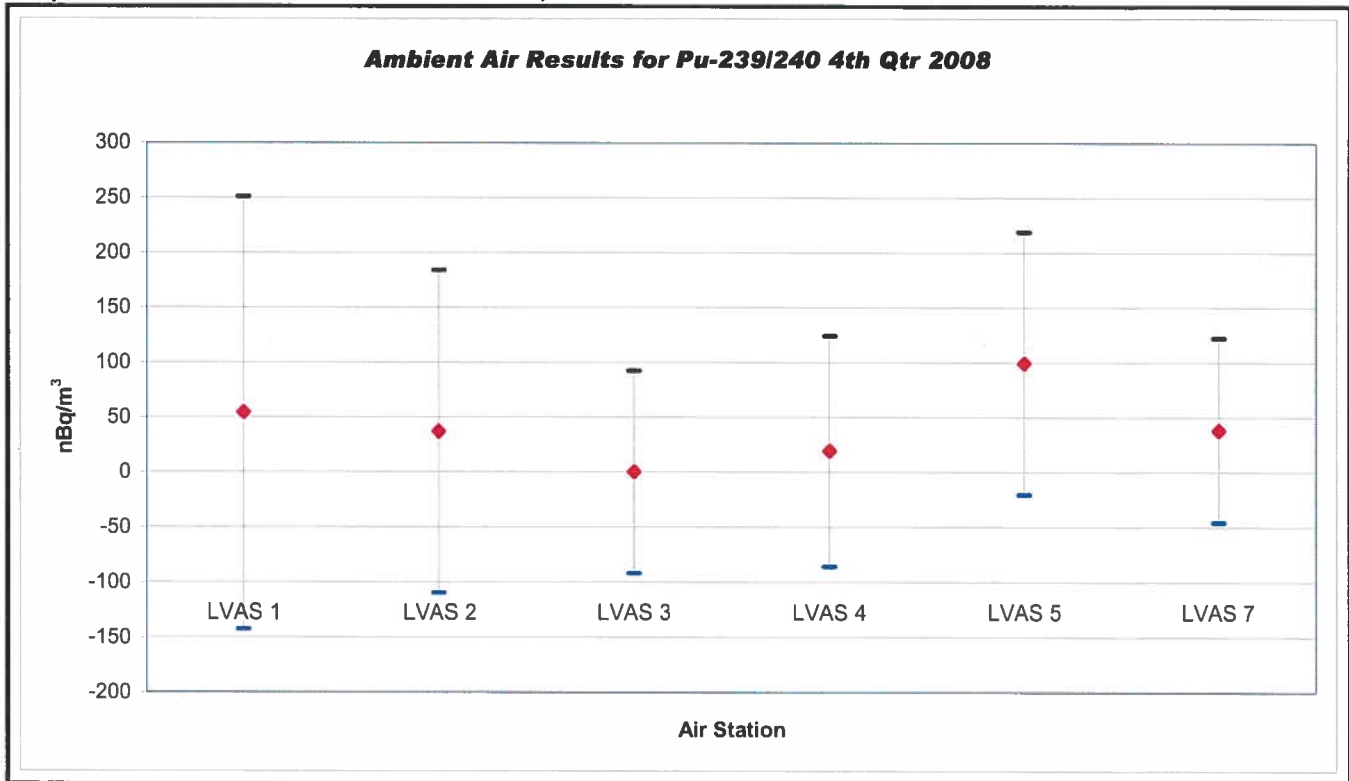
Graph 2: Ambient Air Results for Cs-137, 4th Qtr 2008

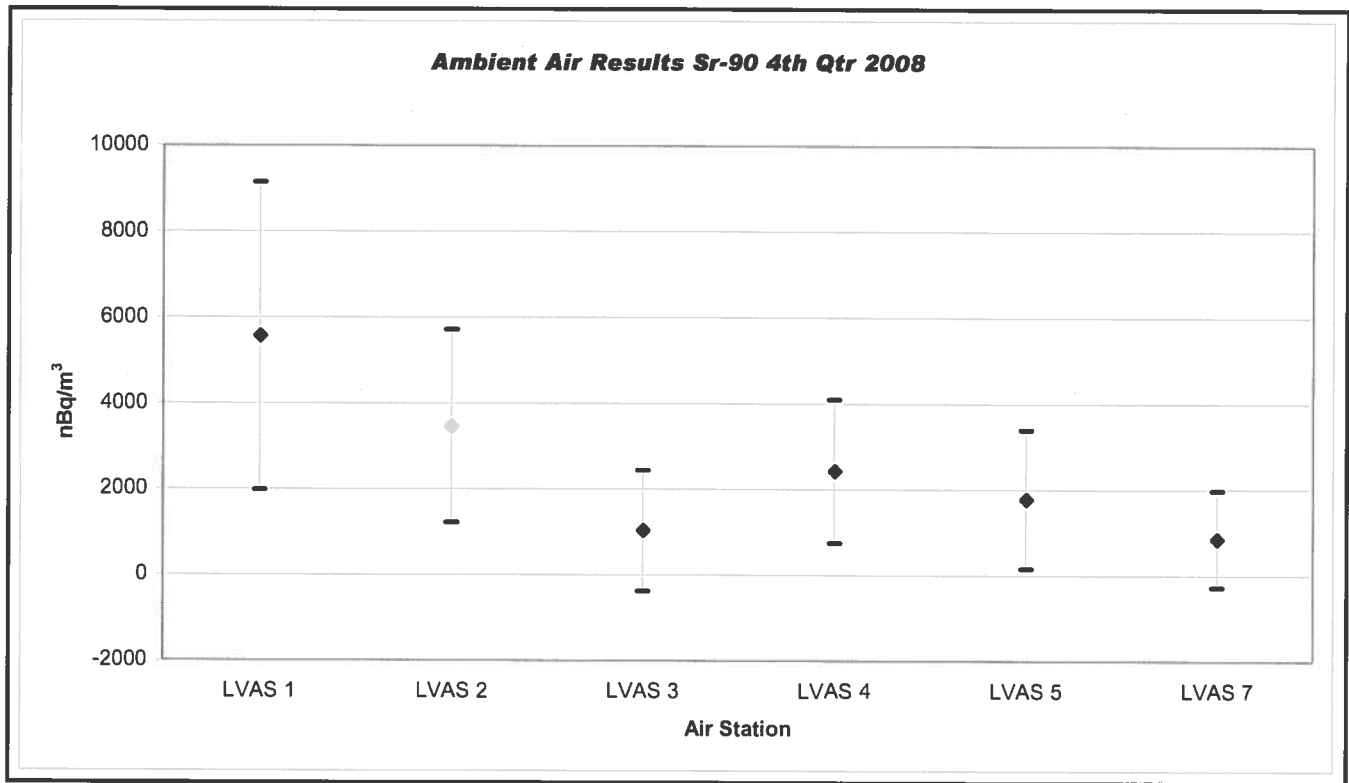




Graph 3: Ambient Air Results for Pu-238, 4th Qtr 2008

Graph 4: Ambient Air Results for Pu-239/240, 4th Qtr 2008





Graph 5: Ambient Air Results for Sr-90, 4th Qtr 2008.

Fourth Calendar Quarter 2008 Ambient Air Laboratory Results

2008 4th Qtr LVAS 1				Data Summaries		
Analyte	Result	2 s TPU	MDC	Lab Flag	Result	2 s TPU
	pCi/composite				nBq/m3	
Sr 90	0.480	0.310	0.600	U	5553	3587
Pu-239/40	0.005	0.017	0.013	U	54	197
Pu-238	0.009	0.017	0.013	U	108	197
Am 241	0.023	0.029	0.021	LT	216	336
Cs 137	-0.170	2.900	4.900	U	-1967	33552
Total Air Flow	3198	(m3)				

2008 4th Qtr LVAS 2				Data Summaries		
Analyte	Result	2 s TPU	MDC	Lab Flag	Result	2 s TPU
	pCi/composite				nBq/m3	
Sr 90	0.400	0.260	0.510	U	3460	2249
Pu-239/40	0.004	0.017	0.035	U	37	147
Pu-238	-0.005	0.017	0.035	U	-43	147
Am 241	-0.019	0.026	0.082	U	-164	225
Cs 137	1.900	2.800	4.600	U	16433	24217
Total Air Flow	4278	(m3)				

2008 4th Qtr LVAS 3				Data Summaries		
Analyte	Result	2 s TPU	MDC	Lab Flag	Result	2 s TPU
	pCi/composite				nBq/m3	
Sr 90	0.190	0.260	0.550	U	1026	1404
Pu-239/40	0.000	0.017	0.012	U	0	92
Pu-238	0.021	0.021	0.025	U	113	113
Am 241	0.000	0.024	0.017	U	0	130
Cs 137	-1.400	2.600	4.500	U	-7561	14042
Total Air Flow	6851	(m3)				

Qualifiers/Flags

U – Result is less than the sample specific MDC

LT – Result is less than the Requested MDC, greater than sample specific MDC

M – The requested MDC was not met.

Abbreviations

TPU – Total Propagated Uncertainty

MDC – Minimum Detectable Concentration

Fourth Calendar Quarter 2008 Ambient Air Laboratory Results

2008 4th Qtr LVAS 4					Data Summaries	
Analyte	Result	2 s TPU	MDC	Lab Flag	Result	2 s TPU
	pCi/composite				nBq/m3	
Sr 90	0.390	0.270	0.520	U	2415	1672
Pu-239/40	0.003	0.017	0.026	U	19	105
Pu-238	-0.009	0.017	0.042	U	-53	105
Am 241	-0.001	0.022	0.057	U	-4	136
Cs 137	-1.200	2.600	4.500	U	-7430	16098
Total Air Flow 5976 (m3)						

2008 4th Qtr LVAS 5					Data Summaries	
Analyte	Result	2 s TPU	MDC	Lab Flag	Result	2 s TPU
	pCi/composite				nBq/m3	
Sr 90	0.250	0.230	0.490	U	1762	1621
Pu-239/40	0.014	0.017	0.013	LT	99	120
Pu-238	0.000	0.017	0.013	U	0	120
Am 241	-0.004	0.027	0.042	U	-28	190
Cs 137	-3.500	3.100	5.500	U, M	-24662	21843
Total Air Flow 5251 (m3)						

2008 4th Qtr LVAS 7					Data Summaries	
Analyte	Result	2 s TPU	MDC	Lab Flag	Result	2 s TPU
	pCi/composite				nBq/m3	
Sr 90	0.180	0.240	0.520	U	844	1126
Pu-239/40	0.008	0.018	0.027	U	38	84
Pu-238	0.011	0.018	0.033	U	52	84
Am 241	0.013	0.024	0.017	U	61	113
Cs 137	-0.380	2.900	4.900	U	-1783	13605
Total Air Flow 7887 (m3)						

Qualifiers/Flags

U – Result is less than the sample specific MDC

LT – Result is less than the Requested MDC, greater than sample specific MDC

M – The requested MDC was not met.

Abbreviations

TPU – Total Propagated Uncertainty

MDC – Minimum Detectable Concentration