



BILL RICHARDSON
GOVERNOR

State of New Mexico
ENVIRONMENT DEPARTMENT
DOE Oversight Bureau
Carlsbad Field Office

604B N. Canal, Carlsbad, New Mexico 88220
Tel: (575)-887-6851, Fax (575)-887-6862



RON CURRY
SECRETARY

JON GOLDSTEIN
DEPUTY SECRETARY

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 Second 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.

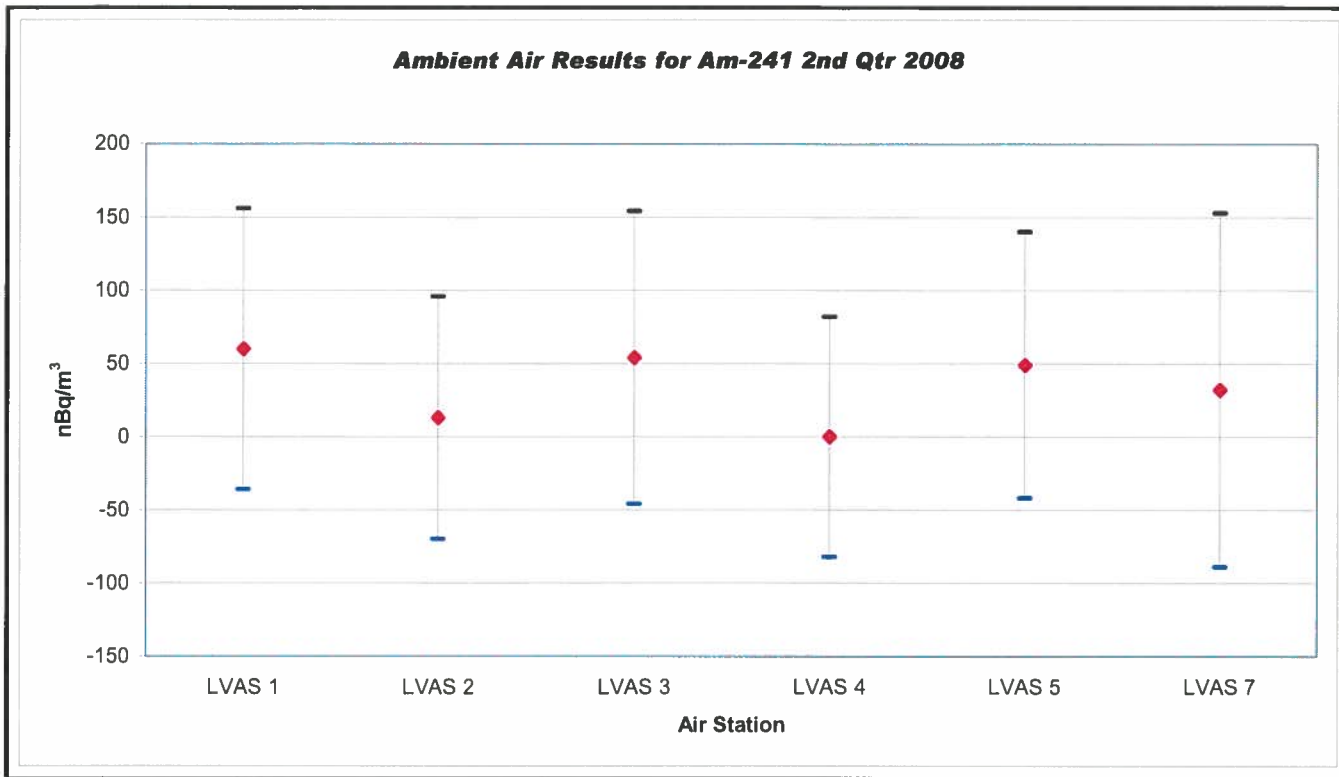
Sincerely,

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 Second Calendar Quarter 2008" with the following enclosures:

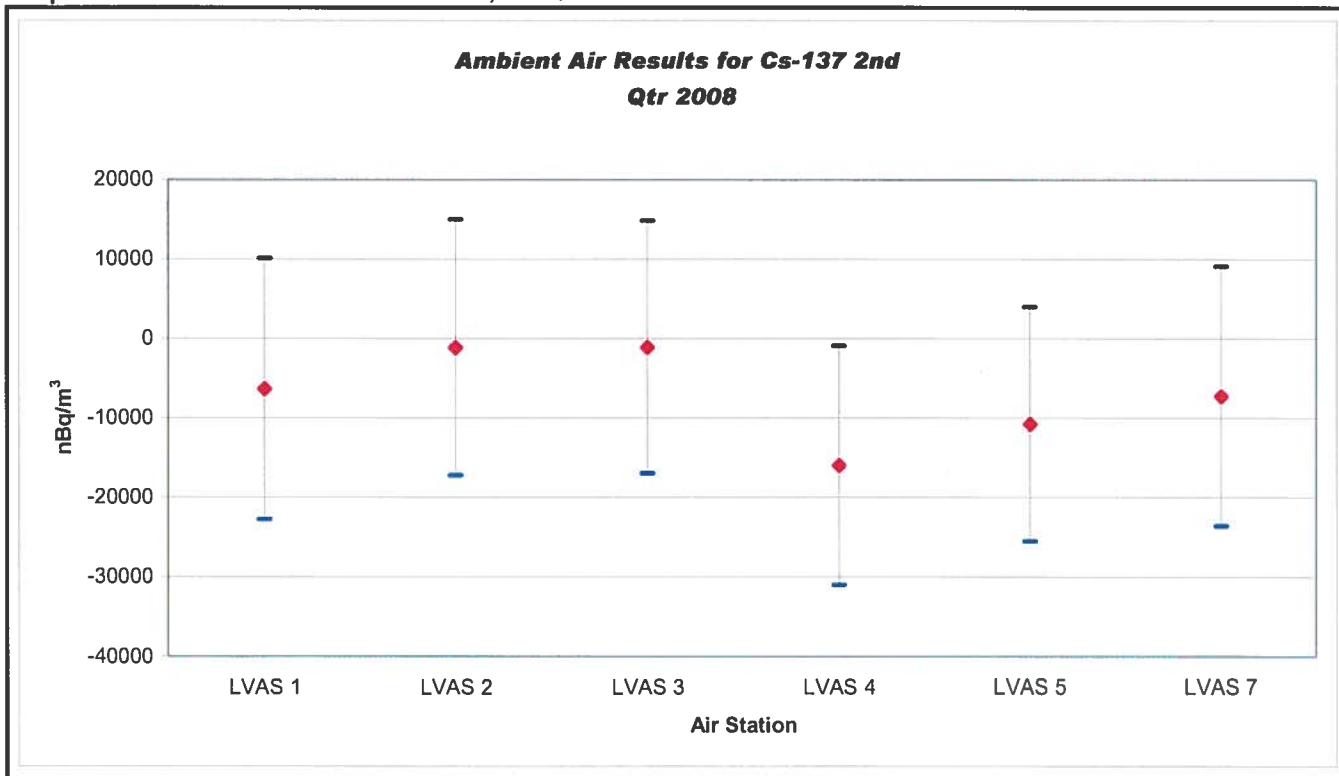
1. Graph 1 – Ambient Air Results for Am-241, 2nd Calendar Qtr 2008.
2. Graph 2 – Ambient Air Results for Cs-137, 2nd Calendar Qtr 2008.
3. Graph 3 – Ambient Air Results for Pu-238, 2nd Calendar Qtr 2008.
4. Graph 4 – Ambient Air Results for Pu-239/240, 2nd Calendar Qtr 2008.
5. Graph 5 – Ambient Air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

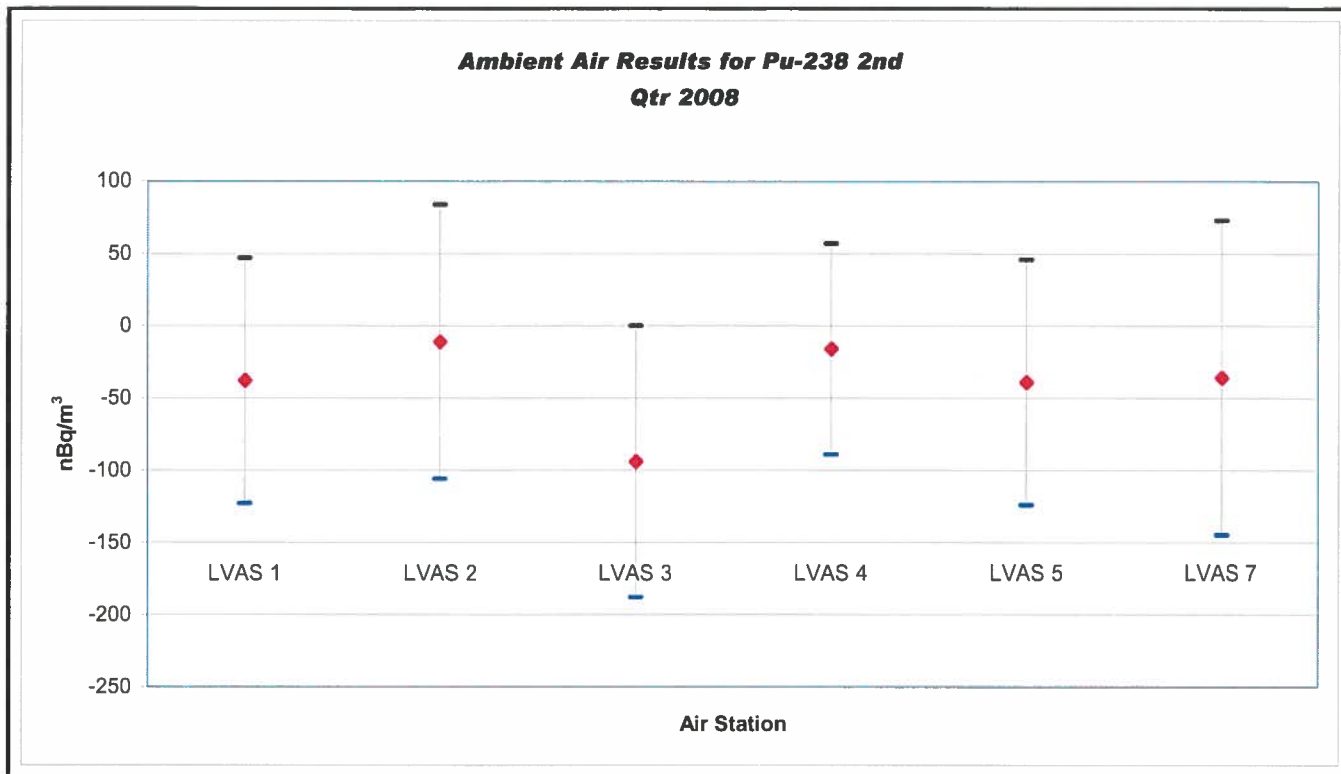
Cc: Dan Ferguson, Site Regulatory Specialist, DOE / CBFO
Tom Skibitski, Bureau Chief, NMED DOE OB



Graph 1: Ambient Air Results for Am-241, 2nd Qtr 2008

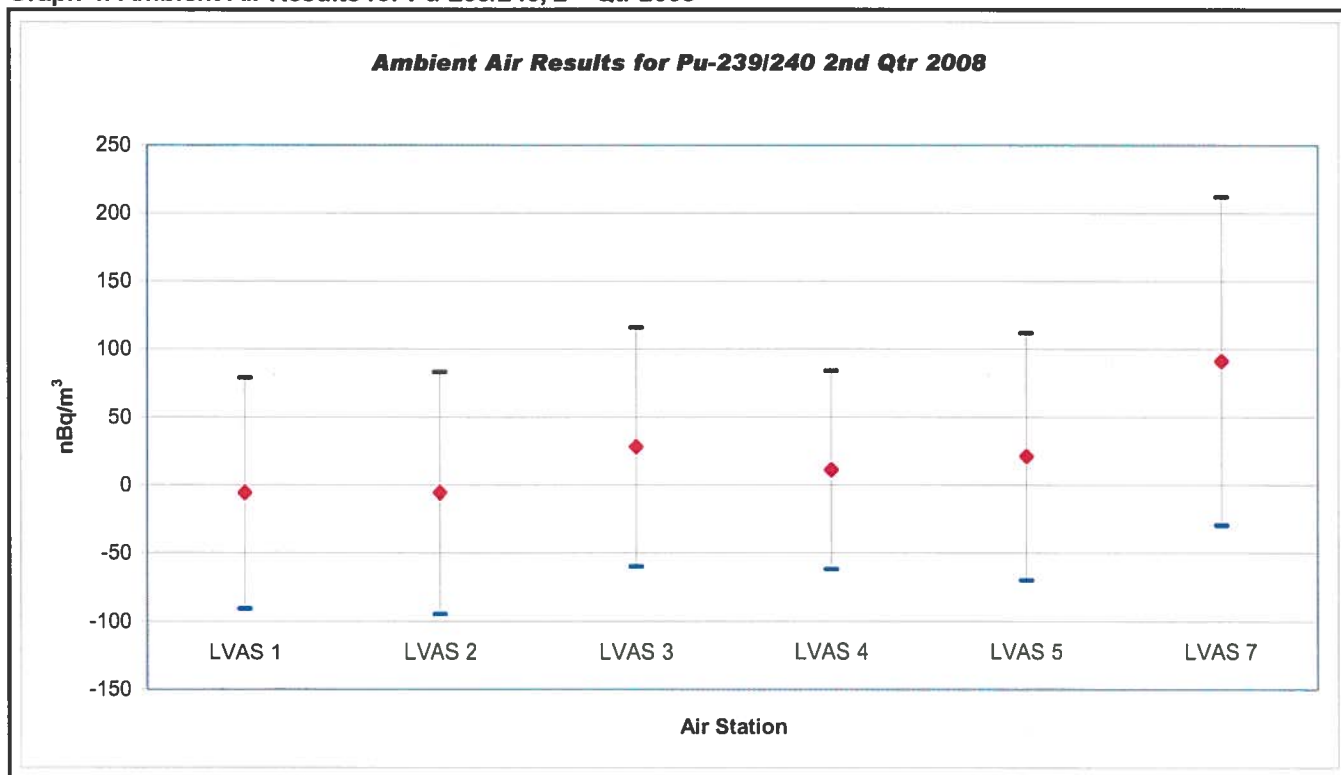
Graph 2: Ambient Air Results for Cs-137, 2nd Qtr 2008

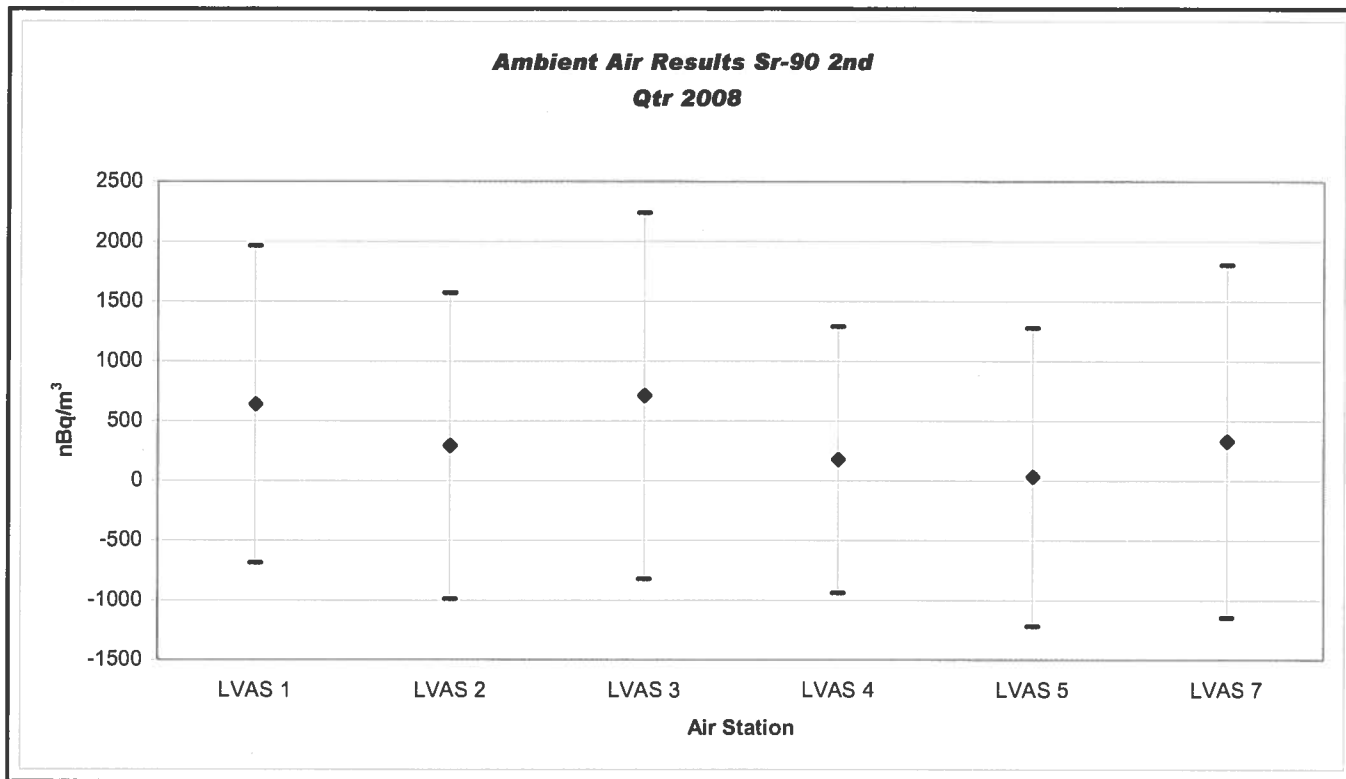




Graph 3: Ambient Air Results for Pu-238, 2nd Qtr 2008

Graph 4: Ambient Air Results for Pu-239/240, 2nd Qtr 2008





Graph 5: Ambient Air Results for Sr-90, 2nd Qtr 2008.

Second Calendar Quarter 2008 Ambient Air Laboratory Results

2008 2nd Qtr LVAS 1				Data Summaries		
Analyte	Result	2 s TPU	MDC	Lab Flag	Result	2 s TPU
	pCi/composite				nBq/m3	
Sr 90	0.120	0.250	0.560	U	637	1327
Pu-239/40	-0.001	0.016	0.034	U	-6	85
Pu-238	-0.007	0.016	0.038	U	-38	85
Am 241	0.014	0.018	0.013	LT	60	96
Cs 137	-1.200	3.100	5.300	U, M	-6370	16456
Total Air Flow (m ³) 6970						

2008 2nd Qtr LVAS 2				Data Summaries		
Analyte	Result	2 s TPU	MDC	Lab Flag	Result	2 s TPU
	pCi/composite				nBq/m3	
Sr 90	0.052	0.230	0.540	U	289	1280
Pu-239/40	-0.001	0.016	0.035	U	-6	89
Pu-238	-0.002	0.017	0.025	U	-11	95
Am 241	0.002	0.015	0.022	U	13	83
Cs 137	-0.210	2.900	4.900	U	-1169	16140
Total Air Flow (m ³) 6648						

2008 2nd Qtr LVAS 3			Data Summaries			
Analyte	Result	2 s TPU	MDC	Lab Flag	Result	2 s TPU
	pCi/composite				nBq/m3	
Sr 90	0.120	0.260	0.580	U	707	1531
Pu-239/40	0.005	0.015	0.029	U	28	88
Pu-238	-0.016	0.016	0.048	U	-94	94
Am 241	0.009	0.017	0.012	U	54	100
Cs 137	-0.190	2.700	4.600	U	-1119	15903
Total Air Flow (m³) 6282						

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

2008 2nd Qtr
LVAS 4

Data Summaries

Analyte	Result	2 s TPU	MDC	Lab Flag	Result	2 s TPU
	pCi/composite				nBq/m3	
Sr 90	0.036	0.230	0.540	U	174	1114
Pu-239/40	0.002	0.015	0.023	U	11	73
Pu-238	-0.003	0.015	0.028	U	-16	73
Am 241	0.000	0.017	0.012	U	0	82
Cs 137	-3.300	3.100	5.400	U, M	-15988	15019
Total Air Flow (m ³) 7637						

2008 2nd Qtr
LVAS 5

Data Summaries

Analyte	Result	2 s TPU	MDC	Lab Flag	Result	2 s TPU
	pCi/composite				nBq/m3	
Sr 90	0.005	0.220	0.510	U	28	1250
Pu-239/40	0.004	0.016	0.038	U	21	91
Pu-238	-0.007	0.015	0.036	U	-39	85
Am 241	0.009	0.016	0.012	U	49	91
Cs 137	-1.900	2.600	4.500	U	-10794	14770
Total Air Flow (m ³) 6513						

2008 2nd Qtr
LVAS 7

Data Summaries

Analyte	Result	2 s TPU	MDC	Lab Flag	Result	2 s TPU
	pCi/composite				nBq/m3	
Sr 90	-0.028	0.260	0.610	U	-170	1579
Pu-239/40	0.015	0.020	0.033	U	91	121
Pu-238	-0.006	0.018	0.037	U	-36	109
Am 241	0.005	0.020	0.014	U	32	121
Cs 137	-1.200	2.700	4.600	U	-7288	16399
Total Air Flow (m³) 6092						

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