



Allen, Pam, NMENV

From: Maestas, Ricardo, NMENV
Sent: Friday, May 02, 2014 10:05 AM
To: Allen, Pam, NMENV
Subject: FW: Update to Environmental Air Sampler Filter Status
Attachments: Environmental Air Sampler Filter Status.doc

Email and att for WIPP file

From: Kliphuis, Trais, NMENV
Sent: Friday, February 21, 2014 2:29 PM
To: Flynn, Ryan, NMENV; Skibitski, Thomas, NMENV; LucasKamat, Susan, NMENV
Cc: Kieling, John, NMENV; Tongate, Butch, NMENV; Maestas, Ricardo, NMENV; Holmes, Steve, NMENV; Smith, Coleman, NMENV; Blaine, Tom, NMENV; Kendall, Jeff, NMENV
Subject: Update to Environmental Air Sampler Filter Status

Updated Filter Data – see highlights

Please let me know if you would like to see the values presented with different units.



Environmental Air Filter Analytical Status
Preliminary Information – Not for Public Release

Location	Sample ID	Filter Install Date	Filter Retrieval Date	Gross α / β Count			Radiochemistry						
				Field Smears and Surveys of Sampling Equipment and Area	* Initial 10 Minute DPM Gross α / β Count > 200 α > 600 β	ISOLO Spectrum Analyzer	Data from WIPP Labs	Am-241 Bq/mL x 10 ⁻¹²		Pu-238 Bq/mL x 10 ⁻¹²		Pu-239/240 Bq/mL x 10 ⁻¹²	
								Baseline Value**	Sample	Baseline Value**	Sample	Baseline Value**	Sample
WIPP Farfield (WFF)	AL-WFF-20140212-1.1	2/11/14	2/15/14	Field Smears and Surveys at accepted levels	Within Radon Background	36 DPM counted on 2/18/14	About three weeks	Mean = 2.6 σ = 9.7	Value = TPU =	Mean = -1.5 σ = 7.7	Value = TPU =	Mean = 0.3 σ = 3.3	Value = TPU =
WIPP Farfield (WFF)	AL-WFF-20140219-1.1	2/15/14	2/18/14	Field Smears and Surveys at accepted levels	Within Radon Background	UPDATE 2/21/2014: 53 DPM (still needs verification)	About three weeks	Mean = 2.6 σ = 9.7	Value = TPU =	Mean = -1.5 σ = 7.7	Value = TPU =	Mean = 0.3 σ = 3.3	Value = TPU =
WIPP East (WEE)	AL-WEE-20140212-1.1	2/11/14	2/17/14	Field Smears and Surveys at accepted levels	Within Radon Background	UPDATE 2/21/2014: 8 DPM (still needs verification)	About three weeks	Mean = 2.6 σ = 9.7	Value = TPU =	Mean = -1.5 σ = 7.7	Value = TPU =	Mean = 0.3 σ = 3.3	Value = TPU =
WIPP South (WSS)	AL-WSS-20140212-1.1	2/11/14	2/17/14	Field Smears and Surveys at accepted levels	Within Radon Background	UPDATE 2/21/2014: 8 DPM (still needs verification)	About three weeks	Mean = 2.6 σ = 9.7	Value = TPU =	Mean = -1.5 σ = 7.7	Value = TPU =	Mean = 0.3 σ = 3.3	Value = TPU =
Mills Ranch (MLR)	AL-MLR-20140212-1.1	2/11/14	2/18/14	Field Smears and Surveys at accepted levels	Within Radon Background	Awaiting 72 Hour Radon Decay to Analyze	About three weeks	Mean = 2.6 σ = 9.7	Value = TPU =	Mean = -1.5 σ = 7.7	Value = TPU =	Mean = 0.3 σ = 3.3	Value = TPU =
Smith Ranch (SMR)	AL-SMR-20140212-1.1	2/11/14	2/18/14	Field Smears and Surveys at accepted levels	Within Radon Background	Awaiting 72 Hour Radon Decay to Analyze	About three weeks	Mean = 2.6 σ = 9.7	Value = TPU =	Mean = -1.5 σ = 7.7	Value = TPU =	Mean = 0.3 σ = 3.3	Value = TPU =
Carlsbad (CBD)	AL-CBD-20140212-1.1	2/11/14	2/18/14	Field Smears and Surveys at accepted levels	Within Radon Background	Awaiting 72 Hour Radon Decay to Analyze	About three weeks	Mean = 2.6 σ = 9.7	Value = TPU =	Mean = -1.5 σ = 7.7	Value = TPU =	Mean = 0.3 σ = 3.3	Value = TPU =
South East Control (SEC)	AL-SEC-20140212-1.2	2/11/14	2/18/14	Field Smears and Surveys at accepted levels	Within Radon Background	Awaiting 72 Hour Radon Decay to Analyze	About three weeks	Mean = 2.6 σ = 9.7	Value = TPU =	Mean = -1.5 σ = 7.7	Value = TPU =	Mean = 0.3 σ = 3.3	Value = TPU =
South East Control	AL-SEC-20140212-	2/11/14	2/18/14	Field Smears and Surveys	Within Radon	Awaiting 72 Hour Radon	About three	Mean = 2.6	Value =	Mean = -1.5	Value =	Mean = 0.3	Value =

(SEC) Blank sample	2.2			at accepted levels	Background	Decay to Analyze	weeks	$\sigma = 9.7$	TPU =	$\sigma = 7.7$	TPU =	$\sigma = 3.3$	TPU =
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* These are screening values that will inform filter counting staff that there appears to be reading that could be above background and further evaluation is necessary.

** These values are from the DOE/WIPP 92-037, Attachment 1, Statistical Summary of the Radiological Baseline for the WIPP, Table 3-10. These values were derived from the summary statistics for samples at all locations in the baseline. The Units are noted as Becquerels per milliliter x 10^{-12} or Becquerels per cubic meter x 10^{-6} .

TPU = Total Propagated Uncertainty