

THERMO EBERLINE LLC
BUILDING CHARACTERIZATION - VOLUMETRIC LABORATORY ANALYSES
Table 3-14: PAOC-3

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Sample ID				3-F-3-C				3-F-3-C				3-F-12-C				3-F-44-B-C			
GEL Laboratory ID				521069001				1204644393				521069002				521069003			
Collection Date				08/31/20				08/31/20				08/31/20				08/31/20			
Substrate				Vinyl Tile				Vinyl Tile				Vinyl Tile				Vinyl Tile			
Building Surface				Floor				Floor				Floor				Floor			
QC Code				Normal				Duplicate				Normal				Normal			
Analysis Method	Analyte	NMED RCB Required MDC	NMED RCB Volumetric Release Criterion ¹	Result	Uncertainty	Qualifier	MDC	Result	Uncertainty	Qualifier	MDC	Result	Uncertainty	Qualifier	MDC	Result	Uncertainty	Qualifier	MDC
Alpha Spectroscopy																			
ASTM C 1475-00 Modified	Np-237	0.05	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DOE EML	Am-241	0.05	1.25	-0.001	0.015	U	0.033	0.014	0.017	U	0.023	-0.014	0.013	U	0.044	-0.002	0.008	U	0.019
HASL 300 Am-05-RC Mod	CF252	0.05	4.12	0.000	0.007	U	0.011	-0.001	0.007	U	0.017	-0.001	0.010	U	0.024	-0.003	0.009	U	0.024
	Cm-243/244	0.05	2.5	0.002	0.010	U	0.019	-0.001	0.007	U	0.016	-0.005	0.011	U	0.031	0.003	0.010	U	0.010
DOE EML	Pu-238	0.05	1.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HASL 300 Pu-	Pu-239/240	0.05	1.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DOE EML HASL 300 U-02-RC Mod	U-233/234		7.8 ²	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	U-235/236	0.05	4.82	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	U-238		8.4 ²	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Spectroscopy																			
DOE HASL	Am-241	0.05	1.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
300, 4.5.2.3/Ga-	Cs-137	1	6.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gas Flow Proportional Counting																			
EPA 905.0 Modified/DOE RP501 Rev. 1 Modified	Sr-90	0.1	1.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liquid Scintillation Counting																			
EPA 906.0 Modified	Tritium	1	64.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA EERF C-01 Modified	C-14	1	6.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All values are reported in picoCuries per gram (pCi/g)

Table summarizes lab results following quality assurance (QA)/quality control (QC) evaluation of data- see QA/QC Evaluation (Appendix D)/Laboratory Reports (Appendix E) for additional details

NA = Not Analyzed

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² - Release Criteria for U-234 and U-238 Adopted Based NUREG/CR-5512, Volume 3 DandD Screening Methodology scaled to a 15 mrem/yr TEDE

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Table 3-14: PAOC-3

Sample ID				3-F-79-C				3-F-79-C				3-F-79-C				3-W-E-11-C-C			
GEL Laboratory ID				521069004				1204644172				1204646678				521069006			
Collection Date				08/31/20				08/31/20				08/31/20				08/31/20			
Substrate				Vinyl Tile				Vinyl Tile				Vinyl Tile				Sheetrock			
Building Surface				Floor				Floor				Floor				Wall			
QC Code				Normal				Duplicate				Duplicate				Normal			
Analysis Method	Analyte	NMED RCB Required MDC	NMED RCB Volumetric Release Criterion ¹	Result	Uncertainty	Qualifier	MDC	Result	Uncertainty	Qualifier	MDC	Result	Uncertainty	Qualifier	MDC	Result	Uncertainty	Qualifier	MDC
Alpha Spectroscopy																			
ASTM C 1475-00 Modified	Np-237	0.05	0.6	0.011	0.021	U	0.029	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DOE EML	Am-241	0.05	1.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.006	0.020	U	0.036
HASL 300 Am-05-RC Mod	Cf-252	0.05	4.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000	0.012	U	0.023
	Cm-243/244	0.05	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000	0.011	U	0.022
DOE EML	Pu-238	0.05	1.52	-0.003	0.006	U	0.018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HASL 300 Pu-	Pu-239/240	0.05	1.37	-0.003	0.006	U	0.017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DOE EML HASL 300 U-02-RC Mod	U-233/234		7.8 ²	0.160	0.071		0.066	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	U-235/236	0.05	4.82	0.023	0.030	U	0.037	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	U-238		8.4 ²	0.232	0.080		0.053	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Spectroscopy																			
DOE HASL	Am-241	0.05	1.25	0.009	0.166	U	0.310	-0.025	0.082	U	0.131	NA	NA	NA	NA	NA	NA	NA	NA
300, 4.5.2.3/Ga-	Cs-137	1	6.6	0.039	0.039	U	0.087	-0.023	0.033	U	0.055	NA	NA	NA	NA	NA	NA	NA	NA
Gas Flow Proportional Counting																			
EPA 905.0 Modified/DOE RP501 Rev. 1 Modified	Sr-90	0.1	1.03	-0.073	0.048	U	0.096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liquid Scintillation Counting																			
EPA 906.0 Modified	Tritium	1	64.8	0.328	0.330	U	0.549	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA EERF C-01 Modified	C-14	1	6.96	-0.757	0.557	U	0.972	NA	NA	NA	NA	-0.226	0.564	U	0.969	NA	NA	NA	NA

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Sample ID				3-W-W-1-M				3-W-W-23-M				3-W-W-74-C				3-W-W-74-C			
GEL Laboratory ID				521069005				521070001				521070004				1204659413			
Collection Date				09/02/20				09/02/20				09/02/20				09/02/20			
Substrate				Sheetrock				Sheetrock				Sheetrock				Sheetrock			
Building Surface				Wall				Wall				Wall				Wall			
QC Code				Normal				Normal				Normal				Duplicate			
Analysis Method	Analyte	NMED RCB Required MDC	NMED RCB Volumetric Release Criterion ¹	Result	Uncertainty	Qualifier	MDC	Result	Uncertainty	Qualifier	MDC	Result	Uncertainty	Qualifier	MDC	Result	Uncertainty	Qualifier	MDC
Alpha Spectroscopy																			
ASTM C 1475-00 Modified	Np-237	0.05	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DOE EML	Am-241	0.05	1.25	0.023	0.027	U	0.042	0.013	0.026	U	0.044	0.046	0.156	U	0.283	0.018	0.206	U	0.384
HASL 300 Am-05-RC Mod	Cf-252	0.05	4.12	0.000	0.008	U	0.011	-0.004	0.014	U	0.033	0.024	0.081	U	0.072	0.057	0.083		0.057
	Cm-243/244	0.05	2.5	0.002	0.014	U	0.028	0.006	0.018	U	0.031	0.046	0.167	U	0.305	-0.054	0.117	U	0.260
DOE EML	Pu-238	0.05	1.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HASL 300 Pu-	Pu-239/240	0.05	1.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DOE EML HASL 300 U-02-RC Mod	U-233/234		7.8 ²	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	U-235/236	0.05	4.82	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	U-238		8.4 ²	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Spectroscopy																			
DOE HASL	Am-241	0.05	1.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
300, 4.5.2.3/Ga-	Cs-137	1	6.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gas Flow Proportional Counting																			
EPA 905.0 Modified/DOE RP501 Rev. 1 Modified	Sr-90	0.1	1.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liquid Scintillation Counting																			
EPA 906.0 Modified	Tritium	1	64.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA EERF C-01 Modified	C-14	1	6.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Sample ID				3-W-E-73-B-C				3-W-E-73-B-C				3-W-S-88-B-C				3-W-S-87-A-M			
GEL Laboratory ID				1204644409				521070003				521070006				521070005			
Collection Date				09/01/20				09/01/20				09/02/20				08/31/20			
Substrate				Sheetrock				Sheetrock				Sheetrock				Sheetrock			
Building Surface				Wall				Wall				Wall				Wall			
QC Code				Duplicate				Normal				Normal				Normal			
Analysis Method	Analyte	NMED RCB Required MDC	NMED RCB Volumetric Release Criterion ¹	Result	Uncertainty	Qualifier	MDC	Result	Uncertainty	Qualifier	MDC	Result	Uncertainty	Qualifier	MDC	Result	Uncertainty	Qualifier	MDC
Alpha Spectroscopy																			
ASTM C 1475-00 Modified	Np-237	0.05	0.6	NA	NA	NA	NA	-0.007	0.013	U	0.036	NA	NA	NA	NA	NA	NA	NA	NA
DOE EML	Am-241	0.05	1.25	0.008	0.018	U	0.031	0.004	0.012	U	0.021	0.004	0.020	U	0.039	-0.008	0.042	U	0.090
HASL 300 Am-05-RC Mod	Cf-252	0.05	4.12	0.000	0.009	U	0.014	0.000	0.007	U	0.011	0.000	0.015	U	0.022	0.000	0.023	U	0.025
DOE EML	Cm-243/244	0.05	2.5	0.007	0.018	U	0.033	0.000	0.010	U	0.022	-0.010	0.016	U	0.051	0.008	0.035	U	0.061
HASL 300 Pu-	Pu-238	0.05	1.52	NA	NA	NA	NA	-0.001	0.012	U	0.028	NA	NA	NA	NA	NA	NA	NA	NA
	Pu-239/240	0.05	1.37	NA	NA	NA	NA	0.000	0.017	U	0.036	NA	NA	NA	NA	NA	NA	NA	NA
DOE EML	U-233/234		7.8 ²	NA	NA	NA	NA	0.065	0.031		0.026	NA	NA	NA	NA	NA	NA	NA	NA
HASL 300 U-02-RC Mod	U-235/236	0.05	4.82	NA	NA	NA	NA	-0.003	0.014	U	0.029	NA	NA	NA	NA	NA	NA	NA	NA
	U-238		8.4 ²	NA	NA	NA	NA	0.064	0.031		0.029	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Spectroscopy																			
DOE HASL	Am-241	0.05	1.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
300, 4.5,2.3/Ga-	Cs-137	1	6.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gas Flow Proportional Counting																			
EPA 905.0 Modified/DOE RP501 Rev. 1 Modified	Sr-90	0.1	1.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liquid Scintillation Counting																			
EPA 906.0 Modified	Tritium	1	64.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA EERF C-01 Modified	C-14	1	6.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Sample ID				3-W-E-73-A-C				3-W-E-74-M				3-W-E-74-M				3-W-S-85-A-C			
GEL Laboratory ID				521070002				521071001				1204661834				521071002			
Collection Date				09/01/20				09/01/20				09/01/20				09/03/20			
Substrate				Sheetrock				Painted Block				Painted Block				Painted Block			
Building Surface				Wall				Wall				Wall				Wall			
QC Code				Normal				Normal				Duplicate				Normal			
Analysis Method	Analyte	NMED RCB Required MDC	NMED RCB Volumetric Release Criterion ¹	Result	Uncertainty	Qualifier	MDC	Result	Uncertainty	Qualifier	MDC	Result	Uncertainty	Qualifier	MDC	Result	Uncertainty	Qualifier	MDC
Alpha Spectroscopy																			
ASTM C 1475-00 Modified	Np-237	0.05	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-0.002	0.007	U	0.013
DOE EML	Am-241	0.05	1.25	-0.001	0.012	U	0.028	0.140	0.215	U	0.358	0.040	0.112	U	0.193	-0.004	0.009	U	0.025
HASL 300 Am-05-RC Mod	Cf-252	0.05	4.12	-0.001	0.013	U	0.029	0.000	0.117	U	0.234	0.021	0.092	U	0.161	0.000	0.008	U	0.011
	Cm-243/244	0.05	2.5	-0.010	0.014	U	0.045	0.070	0.136	U	0.222	-0.060	0.087	U	0.220	-0.003	0.012	U	0.029
DOE EML	Pu-238	0.05	1.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-0.004	0.007	U	0.021
HASL 300 Pu-	Pu-239/240	0.05	1.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.004	0.012	U	0.023
DOE EML HASL 300 U-02-RC Mod	U-233/234		7.8 ²	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.917	0.103		0.043
	U-235/236	0.05	4.82	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.049	0.026		0.022
	U-238		8.4 ²	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.030	0.107		0.022
Gamma Spectroscopy																			
DOE HASL	Am-241	0.05	1.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
300, 4.5.2.3/Ga-	Cs-137	1	6.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gas Flow Proportional Counting																			
EPA 905.0 Modified/DOE RP501 Rev. 1 Modified	Sr-90	0.1	1.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liquid Scintillation Counting																			
EPA 906.0 Modified	Tritium	1	64.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA EERF C-01 Modified	C-14	1	6.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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GEL Laboratory ID				521071004				1204657009				521071003			
Collection Date				09/01/20				09/01/20				09/01/20			
Substrate				Concrete				Concrete				Concrete			
Building Surface				Wall				Wall				Wall			
QC Code				Normal				Duplicate				Normal			
Analysis Method	Analyte	NMED RCB Required MDC	NMED RCB Volumetric Release Criterion ¹	Result	Uncertainty	Qualifier	MDC	Result	Uncertainty	Qualifier	MDC	Result	Uncertainty	Qualifier	MDC
Alpha Spectroscopy															
ASTM C 1475-00 Modified	Np-237	0.05	0.6	-0.005	0.004	U	0.009	NA	NA	NA	NA	NA	NA	NA	NA
DOE EML	Am-241	0.05	1.25	-0.001	0.009	U	0.022	0.005	0.020	U	0.036	-0.015	0.031	U	0.064
HASL 300 Am-05-RC Mod	Cf-252	0.05	4.12	-0.002	0.010	U	0.023	-0.003	0.011	U	0.026	0.006	0.012	U	0.009
	Cm-243/244	0.05	2.5	-0.010	0.012	U	0.037	0.008	0.016	U	0.025	-0.015	0.018	U	0.043
DOE EML	Pu-238	0.05	1.52	0.000	0.013	U	0.028	NA	NA	NA	NA	NA	NA	NA	NA
HASL 300 Pu-	Pu-239/240	0.05	1.37	0.002	0.013	U	0.024	NA	NA	NA	NA	NA	NA	NA	NA
DOE EML HASL 300 U-02-RC Mod	U-233/234		7.8 ²	0.831	0.0875		0.022	NA	NA	NA	NA	NA	NA	NA	NA
	U-235/236	0.05	4.82	0.033	0.021		0.023	NA	NA	NA	NA	NA	NA	NA	NA
	U-238		8.4 ²	0.833	0.0876		0.023	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Spectroscopy															
DOE HASL 300, 4.5.2.3/Ga-	Am-241	0.05	1.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cs-137	1	6.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gas Flow Proportional Counting															
EPA 905.0 Modified/DOE RP501 Rev. 1 Modified	Sr-90	0.1	1.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liquid Scintillation Counting															
EPA 906.0 Modified	Tritium	1	64.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA EERF C-01 Modified	C-14	1	6.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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NMED RCB- New Mexico Environmental Department (NMED), Radiation Control Bureau (RCB)

MDC - Minimum Detectable Concentration

Bolded Values Represent Reported Concentrations > MDC¹- NMED RCB Release Criterion and Required MDC Issued by NMED RCB in Letter to Thermo Eberline LLC dated December 6, 2019² - Release Criteria for U-234 and U-238 Adopted Based NUREG/CR-5512, Volume 3 DandD Screening Methodology scaled to a 15 mrem/yr TEDE

QC Code Normal = Sample, Duplicate = Duplicate of Sample

