

THERMO EBERLINE LLC
BUILDING CHARACTERIZATION - VOLUMETRIC LABORATORY ANALYSES
Table 3-18: PAOC-7

Sample ID				7-F-4-C				7-F-4-C				7-F-4-C				7-F-4-C			
GEL Laboratory ID				1204666179				1204666083				1204667381				522483001			
Collection Date				09/21/20				09/21/20				09/21/20				09/21/20			
Substrate				Concrete				Concrete				Concrete				Concrete			
Building Surface				Floor				Floor				Floor				Floor			
QC Code				Duplicate				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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-0.013	0.010	U	0.036
DOE EML	Am-241	0.05	1.25	0.029	0.030	U	0.044	NA	NA	NA	NA	NA	NA	NA	NA	0.025	0.041	U	0.069
HASL 300 Am-05-RC Mod	CF-252	0.05	4.12	0.007	0.021	U	0.036	NA	NA	NA	NA	NA	NA	NA	NA	-0.004	0.013	U	0.029
	Cm-243/244	0.05	2.5	-0.014	0.024	U	0.055	NA	NA	NA	NA	NA	NA	NA	NA	-0.018	0.025	U	0.058
DOE EML	Pu-238	0.05	1.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.012	U	0.025
HASL 300 Pu-	Pu-239/240	0.05	1.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-0.012	0.010	U	0.031
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	0.566	0.080		0.050
	U-235/236	0.05	4.82	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.011	0.021	U	0.036
	U-238		8.4 ²	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.487	0.076		0.052
Gamma Spectroscopy																			
DOE HASL	Am-241	0.05	1.25	NA	NA	NA	NA	0.034	0.242	U	0.443	NA	NA	NA	NA	0.034	0.085	U	0.137
300, 4.5.2.3/Ga-	Cs-137	1	6.6	NA	NA	NA	NA	-0.010	0.049	U	0.079	NA	NA	NA	NA	0.039	0.035	U	0.071
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	-0.015	0.033	U	0.069
Liquid Scintillation Counting																			
EPA 906.0 Modified	Tritium	1	64.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.212	0.830	U	1.420
EPA EERF C-01 Modified	C-14	1	6.96	NA	NA	NA	NA	NA	NA	NA	NA	-0.123	0.451	U	0.776	-0.644	0.422	U	0.744

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

U = Analyte Not Identified >MDC

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

MDC - Minimum Detectable Concentration

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Table 3-18: PAOC-7

Sample ID				7C-4-C				7C-4-C				7C-4-C				7W-S-3-C			
GEL Laboratory ID				522486002				1204666084				1204667382				1204666180			
Collection Date				09/21/20				09/21/20				09/21/20				09/21/20			
Substrate				Vinyl Insulation				Vinyl Insulation				Vinyl Insulation				Vinyl Insulation			
Building Surface				Ceiling				Ceiling				Ceiling				Wall			
QC Code				Normal				Duplicate				Duplicate				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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.018	0.014		0.014
HASL 300 Am-05-RC Mod	CF-252	0.05	4.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002	0.006	U	0.006
DOE EML	Cm-243/244	0.05	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-0.011	0.014	U	0.032
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	0.003	0.533	U	0.903	2.880	1.910	U	4.320	NA	NA	NA	NA	NA	NA	NA	NA
300, 4.5.2.3/Ga-	Cs-137	1	6.6	0.012	0.307	U	0.592	-0.215	0.408	U	0.692	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	0.025	0.055	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	1.690	1.790	U	3.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA EERF C-01 Modified	C-14	1	6.96	-0.162	0.462	U	0.795	NA	NA	NA	NA	-0.030	0.372	U	0.637	NA	NA	NA	NA

Notes:

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Table 3-18: PAOC-7

Sample ID				7W-S-3-C				7W-N-1-C				7W-N-1-C				7W-N-2-C			
GEL Laboratory ID				522486001				522486003				1204666181				522486004			
Collection Date				09/21/20				09/21/20				09/21/20				09/21/20			
Substrate				Vinyl Insulation				Stucco				Stucco				Stucco			
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	-0.006	0.011	U	0.030	-0.005	0.009	U	0.023	NA	NA	NA	NA	NA	NA	NA	NA
DOE EML	Am-241	0.05	1.25	0.027	0.022	U	0.030	0.013	0.021	U	0.036	0.023	0.021	U	0.030	NA	NA	NA	NA
HASL 300 Am-05-RC Mod	CF-252	0.05	4.12	-0.009	0.011	U	0.029	-0.009	0.012	U	0.029	-0.007	0.010	U	0.024	NA	NA	NA	NA
DOE EML	Cm-243/244	0.05	2.5	0.007	0.013	U	0.021	-0.008	0.014	U	0.032	-0.013	0.017	U	0.038	NA	NA	NA	NA
DOE EML	Pu-238	0.05	1.52	0.001	0.020	U	0.040	0.000	0.012	U	0.026	NA	NA	NA	NA	NA	NA	NA	NA
HASL 300 Pu-	Pu-239/240	0.05	1.37	0.010	0.022	U	0.039	0.001	0.018	U	0.036	NA	NA	NA	NA	NA	NA	NA	NA
DOE EML HASL 300 U-02-RC Mod	U-233/234		7.8 ²	0.209	0.053		0.048	0.273	0.059		0.046	NA	NA	NA	NA	NA	NA	NA	NA
	U-235/236	0.05	4.82	0.019	0.021	U	0.031	0.030	0.020		0.008	NA	NA	NA	NA	NA	NA	NA	NA
	U-238		8.4 ²	0.210	0.050		0.034	0.292	0.059		0.037	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	0.048	0.109	U	0.196
	Cs-137	1	6.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.022	0.034	U	0.069
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	-0.025	0.031	U	0.066
Liquid Scintillation Counting																			
EPA 906.0 Modified	Tritium	1	64.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.944	0.844	U	1.410
EPA EERF C-01 Modified	C-14	1	6.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-0.031	0.405	U	0.694

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Sample ID				7W-N-2-C				7W-N-2-C			
GEL Laboratory ID				1204666085				1204667383			
Collection Date				09/21/20				09/21/20			
Substrate				Stucco				Stucco			
Building Surface				Wall				Wall			
QC Code				Duplicate				Duplicate			
Analysis Method	Analyte	NMED RCB Required MDC	NMED RCB Volumetric Release Criterion ¹	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
DOE EML	Am-241	0.05	1.25	NA	NA	NA	NA	NA	NA	NA	NA
HASL 300 Am-05-RC Mod	CF-252	0.05	4.12	NA	NA	NA	NA	NA	NA	NA	NA
DOE EML	Cm-243/244	0.05	2.5	NA	NA	NA	NA	NA	NA	NA	NA
DOE EML	Pu-238	0.05	1.52	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
DOE EML HASL 300 U-02 RC Mod	U-233/234		7.8 ²	NA	NA	NA	NA	NA	NA	NA	NA
	U-235/236	0.05	4.82	NA	NA	NA	NA	NA	NA	NA	NA
	U-238		8.4 ²	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Spectroscopy											
DOE HASL	Am-241	0.05	1.25	0.008	0.117	U	0.204	NA	NA	NA	NA
300, 4.5.2.3/Ga-	Cs-137	1	6.6	0.000	0.136	UI	0.153	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
Liquid Scintillation Counting											
EPA 906.0 Modified	Tritium	1	64.8	NA	NA	NA	NA	NA	NA	NA	NA
EPA EERF C-01 Modified	C-14	1	6.96	NA	NA	NA	NA	-0.345	0.471	U	0.818

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Table 3-18: PAOC-7

Sample ID				7CS-1-V				7CS-2-V				7CS-3-V				7W-N-1-R			
GEL Laboratory ID				580099003				580099004				580099005				580098001			
Collection Date				4/7/2022				4/7/2022				4/7/2022				4/7/2022			
Substrate				Vinyl Tile				Vinyl Tile				Vinyl Tile				Stucco			
Building Surface				Ceiling				Ceiling				Ceiling				Wall			
QC Code				Normal				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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DOE EML	Am-241	0.05	1.25	0.015	0.024	U	0.040	-0.014	0.023	U	0.050	-0.011	0.021	U	0.049	0.000	0.007	U	0.013
HASL 300 Am-05-RC Mod	CF-252	0.05	4.12	0.003	0.009	U	0.008	0.003	0.012	U	0.022	0.000	0.011	U	0.012	0.000	0.005	U	0.005
DOE EML	Cm-243/244	0.05	2.5	-0.005	0.015	U	0.033	0.011	0.021	U	0.036	-0.004	0.016	U	0.035	-0.002	0.006	U	0.013
HASL 300 Pu-	Pu-238	0.05	1.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	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	U-233/234		7.8 ²	NA	NA	NA	NA	NA	NA	NA	NA	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	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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GEL Laboratory ID				580098002				582885003				582885004				582885005			
Collection Date				4/7/2022				44658.000				44658.000				44658.000			
Substrate				Stucco				Concrete				Concrete				Concrete			
Building Surface				Wall				Floor				Floor				Floor			
QC Code				Normal				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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DOE EML	Am-241	0.05	1.25	0.011	0.017	U	0.026	0.010	0.013	U	0.017	-0.002	0.009	U	0.019	-0.005	0.013	U	0.028
HASL 300 Am-05-RC Mod	CF-252	0.05	4.12	0.003	0.010	U	0.009	0.003	0.008	U	0.008	-0.001	0.007	U	0.016	-0.002	0.006	U	0.015
DOE EML	Cm-243/244	0.05	2.5	0.005	0.015	U	0.026	-0.008	0.012	U	0.029	-0.006	0.007	U	0.019	-0.005	0.009	U	0.021
HASL 300 Pu-	Pu-238	0.05	1.52	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pu-239/240	0.05	1.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DOE EML	U-233/234		7.8 ²	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HASL 300 U-02-RC Mod	U-235/236	0.05	4.82	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	U-238		8.4 ²	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gamma Spectroscopy																			
DOE HASL	Am-241	0.05	1.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
300, 4.5.2.3/Ga-	Cs-137	1	6.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gas Flow Proportional Counting																			
EPA 905.0 Modified/DOE RP501 Rev. 1 Modified	Sr-90	0.1	1.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Liquid Scintillation Counting																			
EPA 906.0 Modified	Tritium	1	64.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA EERF C-01 Modified	C-14	1	6.96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:

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NA = Not Analyzed

U = Analyte Not Identified >MDC

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

