

THERMO EBERLINE LLC
BUILDING CHARACTERIZATION - VOLUMETRIC LABORATORY ANALYSES
Table 3-17: PAOC-6

Sample ID				6SW-F-12-C				6NE-F-56-C				6NE-F-56-C				6NE-F-56-C			
GEL Laboratory ID				1204660602				522022002				1204655861				1204660085			
Collection Date				09/17/20				09/17/20				09/17/20				09/17/20			
Substrate				Vinyl Tile				Vinyl Tile				Vinyl Tile				Vinyl Tile			
Building Surface				Floor				Floor				Floor				Floor			
QC Code				Duplicate				Normal				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	-0.001	0.007	U	0.017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HASL 300 Am-05-RC Mod	Cf-252	0.05	4.12	0.000	0.007	U	0.009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cm-243/244	0.05	2.5	0.000	0.009	U	0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
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	0.184	0.232	U	0.455	-0.025	0.090	U	0.162	NA	NA	NA	NA
300, 4.5.2.3/Ga-	Cs-137	1	6.6	NA	NA	NA	NA	0.007	0.057	U	0.117	-0.013	0.051	U	0.099	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	-0.035	0.031	U	0.057	NA	NA	NA	NA	NA	NA	NA	NA
Liquid Scintillation Counting																			
EPA 906.0 Modified	Tritium	1	64.8	NA	NA	NA	NA	1.640	0.829		1.340	NA	NA	NA	NA	NA	NA	NA	NA
EPA EERF C-01 Modified	C-14	1	6.96	NA	NA	NA	NA	-0.128	0.494	U	0.850	NA	NA	NA	NA	-0.039	0.512	U	0.878

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

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Sample ID				6SW-F-12-C				6NE-W-E-8-C				6NE-W-N-8-C				6NE-W-W-3-M			
GEL Laboratory ID				522022001				522023006				522023005				522023003			
Collection Date				09/17/20				09/17/20				09/17/20				09/17/20			
Substrate				Vinyl Tile				Sheetrock				Sheetrock				Sheetrock			
Building Surface				Floor				Wall				Wall				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	-0.008	0.013	U	0.041	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DOE EML	Am-241	0.05	1.25	0.004	0.016	U	0.031	NA	NA	NA	NA	NA	NA	NA	NA	0.002	0.014	U	0.027
HASL 300 Am-05-RC Mod	CF-252	0.05	4.12	-0.003	0.008	U	0.021	NA	NA	NA	NA	NA	NA	NA	NA	-0.005	0.008	U	0.022
	Cm-243/244	0.05	2.5	-0.003	0.010	U	0.025	NA	NA	NA	NA	NA	NA	NA	NA	-0.011	0.014	U	0.034
DOE EML	Pu-238	0.05	1.52	-0.015	0.014	U	0.038	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HASL 300 Pu-	Pu-239/240	0.05	1.37	-0.008	0.009	U	0.027	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	-0.003	0.027	U	0.052	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	U-235/236	0.05	4.82	0.006	0.021	U	0.039	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	U-238		8.4 ²	0.014	0.023	U	0.039	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	0.213	0.576	U	0.965	0.085	0.287	U	0.550	NA	NA	NA	NA
300, 4.5.2.3/Ga-	Cs-137	1	6.6	NA	NA	NA	NA	-0.143	0.104	U	0.155	0.004	0.079	U	0.150	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:

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Table 3-17: PAOC-6

Sample ID				6NW-W-W-22-C				6NW-W-W-22-C				6SE-W-E-48-B-M				6SE-W-S-37-C			
GEL Laboratory ID				1204664512				522023002				522023008				522023009			
Collection Date				09/17/20				09/17/20				09/17/20				09/17/20			
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	-0.005	0.009	U	0.029	NA	NA	NA	NA	NA	NA	NA	NA
DOE EML	Am-241	0.05	1.25	-0.002	0.011	U	0.023	0.009	0.014	U	0.023	0.014	0.014	U	0.022	0.000	0.007	U	0.014
HASL 300 Am-05-RC Mod	CF-252	0.05	4.12	-0.002	0.005	U	0.012	-0.003	0.007	U	0.019	0.001	0.004	U	0.004	0.001	0.007	U	0.012
	Cm-243/244	0.05	2.5	0.001	0.006	U	0.011	-0.004	0.012	U	0.028	0.001	0.004	U	0.004	0.000	0.008	U	0.015
DOE EML	Pu-238	0.05	1.52	NA	NA	NA	NA	-0.012	0.016	U	0.037	NA	NA	NA	NA	NA	NA	NA	NA
HASL 300 Pu-	Pu-239/240	0.05	1.37	NA	NA	NA	NA	-0.002	0.014	U	0.029	NA	NA	NA	NA	NA	NA	NA	NA
	U-233/234		7.8 ²	NA	NA	NA	NA	-0.015	0.020	U	0.042	NA	NA	NA	NA	NA	NA	NA	NA
DOE EML	U-235/236	0.05	4.82	NA	NA	NA	NA	0.009	0.013	U	0.020	NA	NA	NA	NA	NA	NA	NA	NA
HASL 300 U-02-RC Mod	U-238		8.4 ²	NA	NA	NA	NA	0.011	0.017	U	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				6SW-W-N-39-M				6NE-W-E-56-C				6NW-W-E-2-M				6NW-W-N-49-C			
GEL Laboratory ID				522023007				522023004				522023001				522024001			
Collection Date				09/17/20				09/17/20				09/17/20				09/18/20			
Substrate				Sheetrock				Sheetrock				Sheetrock				Painted Block			
Building Surface				Wall				Wall				Wall				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	0.005	0.015	U	0.025
DOE EML	Am-241	0.05	1.25	0.001	0.011	U	0.021	-0.003	0.011	U	0.023	0.006	0.009	U	0.015	0.003	0.014	U	0.025
HASL 300 Am-05-RC Mod	CF-252	0.05	4.12	-0.001	0.005	U	0.012	-0.001	0.005	U	0.012	-0.002	0.005	U	0.013	0.000	0.004	U	0.004
	Cm-243/244	0.05	2.5	-0.002	0.005	U	0.014	-0.001	0.006	U	0.014	-0.006	0.006	U	0.018	0.005	0.011	U	0.018
DOE EML	Pu-238	0.05	1.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.024	0.019	U	0.026
HASL 300 Pu-	Pu-239/240	0.05	1.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.006	0.018	U	0.033
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	0.882	0.095		0.046
	U-235/236	0.05	4.82	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.030	0.020		0.019
	U-238		8.4 ²	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.962	0.097		0.024
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				6NW-W-W-9-M				6NW-W-N-49-C				6NW-W-W-17-M				6NW-W-W-17-M			
GEL Laboratory ID				522024002				1204664513				522024003				1204665166			
Collection Date				09/18/20				09/18/20				09/18/20				09/18/20			
Substrate				Painted Block				Painted Block				Painted Block				Painted Block			
Building Surface				Wall				Wall				Wall				Wall			
QC Code				Normal				Duplicate				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	NA	NA	NA	NA	0.010	0.009		0.004	NA	NA	NA	NA	NA	NA	NA	NA
HASL 300 Am-05-RC Mod	Cf-252	0.05	4.12	NA	NA	NA	NA	0.002	0.005	U	0.005	NA	NA	NA	NA	NA	NA	NA	NA
	Cm-243/244	0.05	2.5	NA	NA	NA	NA	0.004	0.008	U	0.011	NA	NA	NA	NA	NA	NA	NA	NA
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	0.126	0.142	U	0.249	NA	NA	NA	NA	-0.082	0.211	U	0.347	0.082	0.437	U	0.757
300, 4.5.2.3/Ga-	Cs-137	1	6.6	0.000	0.062	U	0.118	NA	NA	NA	NA	-0.028	0.061	U	0.093	-0.021	0.081	U	0.138
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	-0.005	0.035	U	0.070	NA	NA	NA	NA
Liquid Scintillation Counting																			
EPA 906.0 Modified	Tritium	1	64.8	NA	NA	NA	NA	NA	NA	NA	NA	-0.237	0.846	U	1.480	NA	NA	NA	NA
EPA EERF C-01 Modified	C-14	1	6.96	NA	NA	NA	NA	NA	NA	NA	NA	0.156	0.456	U	0.774	0.327	0.475	U	0.801

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GEL Laboratory ID				522025002				522025003				1204664514				522025004			
Collection Date				09/18/20				09/18/20				09/18/20				09/18/20			
Substrate				Concrete				Concrete				Concrete				Concrete			
Building Surface				Floor				Floor				Floor				Floor			
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	-0.007	0.012	U	0.038	NA	NA	NA	NA	NA	NA	NA	NA
DOE EML	Am-241	0.05	1.25	0.006	0.009	U	0.012	0.000	0.014	U	0.026	0.006	0.012	U	0.020	0.007	0.012	U	0.018
HASL 300 Am-05-RC Mod	CF-252	0.05	4.12	0.000	0.005	U	0.005	0.000	0.005	U	0.005	0.000	0.005	U	0.005	0.005	0.010	U	0.007
	Cm-243/244	0.05	2.5	0.002	0.008	U	0.015	0.002	0.008	U	0.015	-0.006	0.008	U	0.019	0.005	0.013	U	0.022
DOE EML	Pu-238	0.05	1.52	NA	NA	NA	NA	-0.003	0.015	U	0.032	NA	NA	NA	NA	NA	NA	NA	NA
HASL 300 Pu-	Pu-239/240	0.05	1.37	NA	NA	NA	NA	0.005	0.018	U	0.034	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	0.332	0.055		0.044	NA	NA	NA	NA	NA	NA	NA	NA
	U-235/236	0.05	4.82	NA	NA	NA	NA	0.025	0.018		0.022	NA	NA	NA	NA	NA	NA	NA	NA
	U-238		8.4 ²	NA	NA	NA	NA	0.409	0.057		0.028	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:

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THERMO EBERLINE LLC
BUILDING CHARACTERIZATION - VOLUMETRIC LABORATORY ANALYSES
Table 3-17: PAOC-6

Sample ID				6-NE-F-7-RS				6-NE-F-8-RS				6-NE-W-E-53-M				6-NE-W-E-53-M			
GEL Laboratory ID				522025006				522025007				522025009				1204664515			
Collection Date				09/18/20				09/18/20				09/18/20				09/18/20			
Substrate				Concrete				Concrete				Concrete				Concrete			
Building Surface				Floor				Floor				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	0.006	0.016	U	0.028	NA	NA	NA	NA
DOE EML	Am-241	0.05	1.25	NA	NA	NA	NA	NA	NA	NA	NA	0.005	0.008	U	0.012	-0.002	0.023	U	0.043
HASL 300 Am-05-RC Mod	Cf-252	0.05	4.12	NA	NA	NA	NA	NA	NA	NA	NA	-0.003	0.007	U	0.016	0.007	0.018	U	0.031
	Cm-243/244	0.05	2.5	NA	NA	NA	NA	NA	NA	NA	NA	0.003	0.009	U	0.015	0.003	0.016	U	0.029
DOE EML	Pu-238	0.05	1.52	NA	NA	NA	NA	NA	NA	NA	NA	-0.005	0.013	U	0.029	NA	NA	NA	NA
HASL 300 Pu-	Pu-239/240	0.05	1.37	NA	NA	NA	NA	NA	NA	NA	NA	-0.007	0.010	U	0.025	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	0.358	0.059		0.032	NA	NA	NA	NA
	U-235/236	0.05	4.82	NA	NA	NA	NA	NA	NA	NA	NA	0.021	0.016		0.007	NA	NA	NA	NA
	U-238		8.4 ²	NA	NA	NA	NA	NA	NA	NA	NA	0.379	0.061		0.032	NA	NA	NA	NA
Gamma Spectroscopy																			
DOE HASL	Am-241	0.05	1.25	-0.065	0.083	U	0.147	-0.045	0.138	U	0.256	NA	NA	NA	NA	NA	NA	NA	NA
300, 4.5.2.3/Ga-	Cs-137	1	6.6	4.200	0.286		0.108	4.980	0.140		0.040	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:

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THERMO EBERLINE LLC
BUILDING CHARACTERIZATION - VOLUMETRIC LABORATORY ANALYSES
Table 3-17: PAOC-6

Sample ID				6-NE-F-12-C				6-NE-F-16-RS				6-NE-F-16-RS				6-NE-F-38-C			
GEL Laboratory ID				522025001				522025008				1204667410				522025005			
Collection Date				09/18/20				09/18/20				09/18/20				09/18/20			
Substrate				Concrete				Concrete				Concrete				Concrete			
Building Surface				Floor				Floor				Floor				Floor			
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	NA	NA	NA	NA
DOE EML	Am-241	0.05	1.25	0.005	0.017	U	0.031	NA	NA	NA	NA	NA	NA	NA	NA	-0.007	0.022	U	0.046
HASL 300 Am-05-RC Mod	CF-252	0.05	4.12	0.002	0.006	U	0.006	NA	NA	NA	NA	NA	NA	NA	NA	-0.003	0.011	U	0.025
	Cm-243/244	0.05	2.5	0.016	0.014	U	0.017	NA	NA	NA	NA	NA	NA	NA	NA	0.002	0.016	U	0.030
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	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	0.035	0.143	U	0.242	NA	NA	NA	NA	NA	NA	NA	NA
300, 4.5.2.3/Ga-	Cs-137	1	6.6	NA	NA	NA	NA	0.011	0.028	U	0.050	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	0.034	0.043	U	0.072	NA	NA	NA	NA	NA	NA	NA	NA
Liquid Scintillation Counting																			
EPA 906.0 Modified	Tritium	1	64.8	NA	NA	NA	NA	-0.108	0.485	U	0.843	NA	NA	NA	NA	NA	NA	NA	NA
EPA EERF C-01 Modified	C-14	1	6.96	NA	NA	NA	NA	0.318	0.280	U	0.468	0.030	0.272	U	0.463	NA	NA	NA	NA

Notes:

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THERMO EBERLINE LLC
BUILDING CHARACTERIZATION - VOLUMETRIC LABORATORY ANALYSES
Table 3-17: PAOC-6

Sample ID				6SE-F-45-C				6SE-F-45-C				6SE-F-45-C				6NW-F-2-C			
GEL Laboratory ID				522026002				1204667411				1204663119				522026001			
Collection Date				09/17/20				09/17/20				09/17/20				09/17/20			
Substrate				Carpet				Carpet				Carpet				Carpet			
Building Surface				Floor				Floor				Floor				Floor			
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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-0.005	0.014	U	0.037
DOE EML	Am-241	0.05	1.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.008	0.008	U	0.011
HASL 300 Am-05-RC Mod	Cf-252	0.05	4.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-0.001	0.005	U	0.011
	Cm-243/244	0.05	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-0.001	0.006	U	0.013
DOE EML	Pu-238	0.05	1.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005	0.014	U	0.026
HASL 300 Pu-	Pu-239/240	0.05	1.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.004	0.009	U	0.015
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	0.088	0.033		0.037
	U-235/236	0.05	4.82	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.013	0.019	U	0.032
	U-238		8.4 ²	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.082	0.030		0.030
Gamma Spectroscopy																			
DOE HASL	Am-241	0.05	1.25	-0.213	0.924	U	1.290	NA	NA	NA	NA	-0.292	0.380	U	0.573	NA	NA	NA	NA
300, 4.5.2.3/Ga-	Cs-137	1	6.6	0.008	0.172	U	0.327	NA	NA	NA	NA	0.099	0.214	U	0.444	NA	NA	NA	NA
Gas Flow Proportional Counting																			
EPA 905.0 Modified/DOE RP501 Rev. 1 Modified	Sr-90	0.1	1.03	0.063	0.056	U	0.092	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Liquid Scintillation Counting																			
EPA 906.0 Modified	Tritium	1	64.8	-0.002	1.060	U	1.830	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA EERF C-01 Modified	C-14	1	6.96	1.100	0.413		0.673	1.110	0.381		0.617	NA	NA	NA	NA	NA	NA	NA	NA

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BUILDING CHARACTERIZATION - VOLUMETRIC LABORATORY ANALYSES
Table 3-17: PAOC-6

Sample ID				6NW-F-2-C				6-C-C-254				6-C-C-123				6-C-C-123			
GEL Laboratory ID				1204662779				1204667412				522027001				1204662780			
Collection Date				09/17/20				09/18/20				09/18/20				09/18/20			
Substrate				Carpet				Concrete				Concrete				Concrete			
Building Surface				Floor				Ceiling				Ceiling				Ceiling			
QC Code				Duplicate				Duplicate				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	-0.005	0.012	U	0.032	NA	NA	NA	NA
DOE EML	Am-241	0.05	1.25	0.009	0.009	U	0.014	NA	NA	NA	NA	0.011	0.009	U	0.012	0.003	0.010	U	0.018
HASL 300 Am-05-RC Mod	Cf-252	0.05	4.12	-0.002	0.005	U	0.011	NA	NA	NA	NA	0.001	0.004	U	0.004	-0.002	0.006	U	0.013
DOE EML	Cm-243/244	0.05	2.5	-0.001	0.007	U	0.015	NA	NA	NA	NA	0.001	0.005	U	0.009	0.005	0.010	U	0.018
HASL 300 Pu-	Pu-238	0.05	1.52	NA	NA	NA	NA	NA	NA	NA	NA	-0.008	0.016	U	0.033	NA	NA	NA	NA
	Pu-239/240	0.05	1.37	NA	NA	NA	NA	NA	NA	NA	NA	0.006	0.014	U	0.025	NA	NA	NA	NA
DOE EML	U-233/234		7.8 ²	NA	NA	NA	NA	NA	NA	NA	NA	0.521	0.064		0.036	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	0.040	0.020		0.021	NA	NA	NA	NA
	U-238		8.4 ²	NA	NA	NA	NA	NA	NA	NA	NA	0.552	0.064		0.023	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	0.454	0.325	U	0.543	NA	NA	NA	NA	NA	NA	NA	NA

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BUILDING CHARACTERIZATION - VOLUMETRIC LABORATORY ANALYSES
Table 3-17: PAOC-6

Sample ID				6-C-C-254				6-C-C-254			
GEL Laboratory ID				522027002				1204663120			
Collection Date				09/18/20				09/18/20			
Substrate				Concrete				Concrete			
Building Surface				Ceiling				Ceiling			
QC Code				Normal				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	CF252	0.05	4.12	NA	NA	NA	NA	NA	NA	NA	NA
	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	0.117	0.157	U	0.301	-0.051	0.166	U	0.312
300, 4.5.2.3/Ga-	Cs-137	1	6.6	0.395	0.087		0.054	0.461	0.107		0.047
Gas Flow Proportional Counting											
EPA 905.0 Modified/DOE RP501 Rev. 1 Modified	Sr-90	0.1	1.03	-0.030	0.032	U	0.071	NA	NA	NA	NA
Liquid Scintillation Counting											
EPA 906.0 Modified	Tritium	1	64.8	0.278	0.562	U	0.956	NA	NA	NA	NA
EPA EERF C-01 Modified	C-14	1	6.96	0.068	0.319	U	0.541	NA	NA	NA	NA

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