

**THERMO EBERLINE LLC**  
**BUILDING CHARACTERIZATION - VOLUMETRIC LABORATORY ANALYSES**  
**Table 3-13: PAOC-2**

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| Sample ID                                    |            |                       |                                                    | 2-F-2-R    |             |           |       | 2-F-3-R      |             |           |       | 2-F-4-R    |             |           |       | 2-F-5-R      |             |           |       |
|----------------------------------------------|------------|-----------------------|----------------------------------------------------|------------|-------------|-----------|-------|--------------|-------------|-----------|-------|------------|-------------|-----------|-------|--------------|-------------|-----------|-------|
| GEL Laboratory ID                            |            |                       |                                                    | 523950002  |             |           |       | 523950003    |             |           |       | 523950004  |             |           |       | 523950005    |             |           |       |
| Collection Date                              |            |                       |                                                    | 10/05/20   |             |           |       | 10/05/20     |             |           |       | 10/05/20   |             |           |       | 10/05/20     |             |           |       |
| Substrate                                    |            |                       |                                                    | Vinyl Tile |             |           |       | Vinyl Tile   |             |           |       | Vinyl Tile |             |           |       | Vinyl Tile   |             |           |       |
| Building Surface                             |            |                       |                                                    | Floor      |             |           |       | Floor        |             |           |       | Floor      |             |           |       | Floor        |             |           |       |
| QC Code                                      |            |                       |                                                    | Normal     |             |           |       | Normal       |             |           |       | Normal     |             |           |       | Normal       |             |           |       |
| Analysis Method                              | Analyte    | NMED RCB Required MDC | NMED RCB Volumetric Release Criterion <sup>1</sup> | Result     | Uncertainty | Qualifier | MDC   | Result       | Uncertainty | Qualifier | MDC   | Result     | Uncertainty | Qualifier | MDC   | Result       | Uncertainty | Qualifier | MDC   |
| <b>Alpha Spectroscopy</b>                    |            |                       |                                                    |            |             |           |       |              |             |           |       |            |             |           |       |              |             |           |       |
| ASTM C 1475-00 Modified                      | Np-237     | 0.05                  | 0.6                                                | NA         | NA          | NA        | NA    | 0.017        | 0.028       | U         | 0.045 | NA         | NA          | NA        | NA    | -0.002       | 0.014       | U         | 0.033 |
| DOE EML                                      | Am-241     | 0.05                  | 1.25                                               | 0.007      | 0.011       | U         | 0.018 | 0.020        | 0.015       | U         | 0.020 | 0.015      | 0.013       | U         | 0.016 | 0.015        | 0.015       | U         | 0.021 |
| HASL 300 Am-05-RC Mod                        | CF-252     | 0.05                  | 4.12                                               | 0.003      | 0.009       | U         | 0.016 | 0.000        | 0.007       | U         | 0.014 | 0.000      | 0.007       | U         | 0.013 | 0.002        | 0.008       | U         | 0.013 |
|                                              | Cm-243/244 | 0.05                  | 2.5                                                | 0.006      | 0.011       | U         | 0.018 | 0.005        | 0.012       | U         | 0.020 | -0.003     | 0.008       | U         | 0.018 | -0.002       | 0.011       | U         | 0.023 |
| DOE EML                                      | Pu-238     | 0.05                  | 1.52                                               | NA         | NA          | NA        | NA    | -0.005       | 0.009       | U         | 0.027 | NA         | NA          | NA        | NA    | -0.003       | 0.010       | U         | 0.025 |
| HASL 300 Pu-                                 | Pu-239/240 | 0.05                  | 1.37                                               | NA         | NA          | NA        | NA    | 0.000        | 0.014       | U         | 0.030 | NA         | NA          | NA        | NA    | -0.012       | 0.014       | U         | 0.037 |
| DOE EML HASL 300 U-02-RC Mod                 | U-233/234  |                       | 7.8 <sup>2</sup>                                   | NA         | NA          | NA        | NA    | <b>0.175</b> | 0.052       |           | 0.048 | NA         | NA          | NA        | NA    | <b>0.129</b> | 0.036       |           | 0.025 |
|                                              | U-235/236  | 0.05                  | 4.82                                               | NA         | NA          | NA        | NA    | 0.009        | 0.026       | U         | 0.047 | NA         | NA          | NA        | NA    | 0.025        | 0.019       | U         | 0.025 |
|                                              | U-238      |                       | 8.4 <sup>2</sup>                                   | NA         | NA          | NA        | NA    | <b>0.196</b> | 0.054       |           | 0.049 | NA         | NA          | NA        | NA    | <b>0.147</b> | 0.038       |           | 0.025 |
| <b>Gamma Spectroscopy</b>                    |            |                       |                                                    |            |             |           |       |              |             |           |       |            |             |           |       |              |             |           |       |
| DOE HASL                                     | Am-241     | 0.05                  | 1.25                                               | -0.043     | 0.142       | U         | 0.220 | 0.049        | 0.077       | U         | 0.150 | 0.004      | 0.074       | U         | 0.122 | -0.006       | 0.065       | U         | 0.108 |
| 300, 4.5.2.3/Ga-                             | Cs-137     | 1                     | 6.6                                                | 0.020      | 0.024       | U         | 0.045 | -0.004       | 0.022       | U         | 0.040 | -0.014     | 0.023       | U         | 0.039 | 0.007        | 0.024       | U         | 0.046 |
| <b>Gas Flow Proportional Counting</b>        |            |                       |                                                    |            |             |           |       |              |             |           |       |            |             |           |       |              |             |           |       |
| EPA 905.0 Modified/DOE RP501 Rev. 1 Modified | Sr-90      | 0.1                   | 1.03                                               | NA         | NA          | NA        | NA    | -0.034       | 0.044       | U         | 0.093 | NA         | NA          | NA        | NA    | -0.041       | 0.046       | U         | 0.099 |
| <b>Liquid Scintillation Counting</b>         |            |                       |                                                    |            |             |           |       |              |             |           |       |            |             |           |       |              |             |           |       |
| EPA 906.0 Modified                           | Tritium    | 1                     | 64.8                                               | NA         | NA          | NA        | NA    | -0.180       | 0.670       | U         | 1.170 | NA         | NA          | NA        | NA    | 0.131        | 0.683       | U         | 1.170 |
| EPA EERF C-01 Modified                       | C-14       | 1                     | 6.96                                               | NA         | NA          | NA        | NA    | 0.553        | 0.485       | U         | 0.811 | NA         | NA          | NA        | NA    | 0.415        | 0.485       | U         | 0.815 |

**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

**Bolded Values** Represent Reported Concentrations > MDC

<sup>1</sup>- NMED RCB Release Criterion and Required MDC Issued by NMED RCB in Letter to Thermo Eberline LLC dated December 6, 2019

<sup>2</sup> - 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



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**Table 3-13: PAOC-2**

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| Sample ID                                    |            |                       |                                                    | 2-F-5-R    |             |           |       | 2-F-5-R    |             |           |       | 2-W-E-3-R    |             |           |       | 2-W-E-3-R  |             |           |       |
|----------------------------------------------|------------|-----------------------|----------------------------------------------------|------------|-------------|-----------|-------|------------|-------------|-----------|-------|--------------|-------------|-----------|-------|------------|-------------|-----------|-------|
| GEL Laboratory ID                            |            |                       |                                                    | 1204669317 |             |           |       | 1204669203 |             |           |       | 523952003    |             |           |       | 1204681922 |             |           |       |
| Collection Date                              |            |                       |                                                    | 10/05/20   |             |           |       | 10/05/20   |             |           |       | 10/05/20     |             |           |       | 10/05/20   |             |           |       |
| Substrate                                    |            |                       |                                                    | Vinyl Tile |             |           |       | Vinyl Tile |             |           |       | Sheetrock    |             |           |       | Sheetrock  |             |           |       |
| Building Surface                             |            |                       |                                                    | Floor      |             |           |       | Floor      |             |           |       | Wall         |             |           |       | Wall       |             |           |       |
| QC Code                                      |            |                       |                                                    | Duplicate  |             |           |       | Duplicate  |             |           |       | Normal       |             |           |       | Duplicate  |             |           |       |
| Analysis Method                              | Analyte    | NMED RCB Required MDC | NMED RCB Volumetric Release Criterion <sup>1</sup> | Result     | Uncertainty | Qualifier | MDC   | Result     | Uncertainty | Qualifier | MDC   | Result       | Uncertainty | Qualifier | MDC   | Result     | Uncertainty | Qualifier | MDC   |
| <b>Alpha Spectroscopy</b>                    |            |                       |                                                    |            |             |           |       |            |             |           |       |              |             |           |       |            |             |           |       |
| ASTM C 1475-00 Modified                      | Np-237     | 0.05                  | 0.6                                                | NA         | NA          | NA        | NA    | NA         | NA          | NA        | NA    | -0.008       | 0.013       | U         | 0.037 | NA         | NA          | NA        | NA    |
| DOE EML                                      | Am-241     | 0.05                  | 1.25                                               | 0.005      | 0.015       | U         | 0.026 | NA         | NA          | NA        | NA    | 0.070        | 0.064       | U         | 0.084 | 0.006      | 0.030       | U         | 0.055 |
| HASL 300 Am-05-RC Mod                        | Cf-252     | 0.05                  | 4.12                                               | 0.000      | 0.007       | U         | 0.014 | NA         | NA          | NA        | NA    | -0.027       | 0.040       | U         | 0.100 | -0.018     | 0.026       | U         | 0.066 |
|                                              | Cm-243/244 | 0.05                  | 2.5                                                | 0.007      | 0.013       | U         | 0.022 | NA         | NA          | NA        | NA    | -0.035       | 0.054       | U         | 0.124 | -0.011     | 0.027       | U         | 0.063 |
| DOE EML                                      | Pu-238     | 0.05                  | 1.52                                               | NA         | NA          | NA        | NA    | NA         | NA          | NA        | NA    | 0.006        | 0.011       | U         | 0.019 | NA         | NA          | NA        | NA    |
| HASL 300 Pu-                                 | Pu-239/240 | 0.05                  | 1.37                                               | NA         | NA          | NA        | NA    | NA         | NA          | NA        | NA    | -0.002       | 0.009       | U         | 0.019 | NA         | NA          | NA        | NA    |
| DOE EML HASL 300 U-02-RC Mod                 | U-233/234  |                       | 7.8 <sup>2</sup>                                   | NA         | NA          | NA        | NA    | NA         | NA          | NA        | NA    | <b>0.037</b> | 0.028       |           | 0.034 | NA         | NA          | NA        | NA    |
|                                              | U-235/236  | 0.05                  | 4.82                                               | NA         | NA          | NA        | NA    | NA         | NA          | NA        | NA    | 0.010        | 0.018       | U         | 0.027 | NA         | NA          | NA        | NA    |
|                                              | U-238      |                       | 8.4 <sup>2</sup>                                   | NA         | NA          | NA        | NA    | NA         | NA          | NA        | NA    | <b>0.062</b> | 0.032       |           | 0.026 | NA         | NA          | NA        | NA    |
| <b>Gamma Spectroscopy</b>                    |            |                       |                                                    |            |             |           |       |            |             |           |       |              |             |           |       |            |             |           |       |
| DOE HASL 300, 4.5.2.3/Ga-                    | Am-241     | 0.05                  | 1.25                                               | NA         | NA          | NA        | NA    | 0.045      | 0.252       | U         | 0.457 | 0.074        | 0.432       | U         | 0.681 | NA         | NA          | NA        | NA    |
|                                              | Cs-137     | 1                     | 6.6                                                | NA         | NA          | NA        | NA    | -0.014     | 0.058       | U         | 0.103 | 0.013        | 0.069       | U         | 0.140 | NA         | NA          | NA        | NA    |
| <b>Gas Flow Proportional Counting</b>        |            |                       |                                                    |            |             |           |       |            |             |           |       |              |             |           |       |            |             |           |       |
| 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    |
| <b>Liquid Scintillation Counting</b>         |            |                       |                                                    |            |             |           |       |            |             |           |       |              |             |           |       |            |             |           |       |
| 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                                    |            |                       |                                                    | 2-W-S-1-B-R  |             |           |       | 2-W-S-2-B-R |             |           |       | 2-W-S-4-B-R |             |           |       | 2-W-W-5-R    |             |           |       |
|----------------------------------------------|------------|-----------------------|----------------------------------------------------|--------------|-------------|-----------|-------|-------------|-------------|-----------|-------|-------------|-------------|-----------|-------|--------------|-------------|-----------|-------|
| GEL Laboratory ID                            |            |                       |                                                    | 523952001    |             |           |       | 523952002   |             |           |       | 523952004   |             |           |       | 523952005    |             |           |       |
| Collection Date                              |            |                       |                                                    | 10/05/20     |             |           |       | 10/05/20    |             |           |       | 10/05/20    |             |           |       | 10/05/20     |             |           |       |
| Substrate                                    |            |                       |                                                    | Sheetrock    |             |           |       | Sheetrock   |             |           |       | Sheetrock   |             |           |       | Sheetrock    |             |           |       |
| Building Surface                             |            |                       |                                                    | Wall         |             |           |       | Wall        |             |           |       | Wall        |             |           |       | Wall         |             |           |       |
| QC Code                                      |            |                       |                                                    | Normal       |             |           |       | Normal      |             |           |       | Normal      |             |           |       | Normal       |             |           |       |
| Analysis Method                              | Analyte    | NMED RCB Required MDC | NMED RCB Volumetric Release Criterion <sup>1</sup> | Result       | Uncertainty | Qualifier | MDC   | Result      | Uncertainty | Qualifier | MDC   | Result      | Uncertainty | Qualifier | MDC   | Result       | Uncertainty | Qualifier | MDC   |
| <b>Alpha Spectroscopy</b>                    |            |                       |                                                    |              |             |           |       |             |             |           |       |             |             |           |       |              |             |           |       |
| ASTM C 1475-00 Modified                      | Np-237     | 0.05                  | 0.6                                                | -0.007       | 0.007       | U         | 0.025 | NA          | NA          | NA        | NA    | NA          | NA          | NA        | NA    | -0.013       | 0.013       | U         | 0.045 |
| DOE EML                                      | Am-241     | 0.05                  | 1.25                                               | 0.002        | 0.016       | U         | 0.034 | 0.009       | 0.021       | U         | 0.034 | 0.012       | 0.013       | U         | 0.019 | 0.009        | 0.010       | U         | 0.015 |
| HASL 300 Am-05-RC Mod                        | Cf-252     | 0.05                  | 4.12                                               | -0.001       | 0.012       | U         | 0.028 | 0.005       | 0.018       | U         | 0.030 | 0.001       | 0.006       | U         | 0.011 | 0.004        | 0.008       | U         | 0.013 |
|                                              | Cm-243/244 | 0.05                  | 2.5                                                | 0.007        | 0.020       | U         | 0.034 | 0.008       | 0.021       | U         | 0.037 | 0.000       | 0.008       | U         | 0.016 | 0.000        | 0.007       | U         | 0.015 |
| DOE EML                                      | Pu-238     | 0.05                  | 1.52                                               | 0.008        | 0.010       | U         | 0.013 | NA          | NA          | NA        | NA    | NA          | NA          | NA        | NA    | 0.011        | 0.011       | U         | 0.015 |
| HASL 300 Pu-                                 | Pu-239/240 | 0.05                  | 1.37                                               | 0.005        | 0.009       | U         | 0.013 | NA          | NA          | NA        | NA    | NA          | NA          | NA        | NA    | 0.005        | 0.007       | U         | 0.009 |
| DOE EML<br>HASL 300 U-02-RC Mod              | U-233/234  |                       | 7.8 <sup>2</sup>                                   | 0.021        | 0.024       | U         | 0.038 | NA          | NA          | NA        | NA    | NA          | NA          | NA        | NA    | 0.021        | 0.020       | U         | 0.030 |
|                                              | U-235/236  | 0.05                  | 4.82                                               | 0.014        | 0.016       | U         | 0.022 | NA          | NA          | NA        | NA    | NA          | NA          | NA        | NA    | 0.014        | 0.014       | U         | 0.019 |
|                                              | U-238      |                       | 8.4 <sup>2</sup>                                   | <b>0.032</b> | 0.020       |           | 0.022 | NA          | NA          | NA        | NA    | NA          | NA          | NA        | NA    | <b>0.024</b> | 0.014       |           | 0.006 |
| <b>Gamma Spectroscopy</b>                    |            |                       |                                                    |              |             |           |       |             |             |           |       |             |             |           |       |              |             |           |       |
| DOE HASL                                     | Am-241     | 0.05                  | 1.25                                               | 0.093        | 0.321       | U         | 0.574 | 0.029       | 0.221       | U         | 0.360 | -0.021      | 0.155       | U         | 0.248 | 0.068        | 0.116       | U         | 0.199 |
| 300, 4.5.2.3/Ga-                             | Cs-137     | 1                     | 6.6                                                | 0.058        | 0.085       | U         | 0.192 | 0.022       | 0.113       | U         | 0.224 | 0.046       | 0.053       | U         | 0.122 | 0.008        | 0.058       | U         | 0.114 |
| <b>Gas Flow Proportional Counting</b>        |            |                       |                                                    |              |             |           |       |             |             |           |       |             |             |           |       |              |             |           |       |
| 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    |
| <b>Liquid Scintillation Counting</b>         |            |                       |                                                    |              |             |           |       |             |             |           |       |             |             |           |       |              |             |           |       |
| 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    | -0.627      | 0.548       | U         | 0.954 | NA           | NA          | NA        | NA    |

**Notes:**

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<sup>2</sup> - 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



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| Sample ID                                    |            |                       |                                                    | 2-W-W-5-R  |             |           |       | 2-W-W-5-R  |             |           |       | 2-W-W-5-R  |             |           |       | 2-W-W-5-R    |             |           |       |
|----------------------------------------------|------------|-----------------------|----------------------------------------------------|------------|-------------|-----------|-------|------------|-------------|-----------|-------|------------|-------------|-----------|-------|--------------|-------------|-----------|-------|
| GEL Laboratory ID                            |            |                       |                                                    | 1204666387 |             |           |       | 1204666761 |             |           |       | 1204666391 |             |           |       | 120466395    |             |           |       |
| Collection Date                              |            |                       |                                                    | 10/05/20   |             |           |       | 10/05/20   |             |           |       | 10/05/20   |             |           |       | 10/05/20     |             |           |       |
| Substrate                                    |            |                       |                                                    | Sheetrock  |             |           |       | Sheetrock  |             |           |       | Sheetrock  |             |           |       | Sheetrock    |             |           |       |
| Building Surface                             |            |                       |                                                    | Wall       |             |           |       | Wall       |             |           |       | Wall       |             |           |       | Wall         |             |           |       |
| QC Code                                      |            |                       |                                                    | Duplicate  |             |           |       | Duplicate  |             |           |       | Duplicate  |             |           |       | Duplicate    |             |           |       |
| Analysis Method                              | Analyte    | NMED RCB Required MDC | NMED RCB Volumetric Release Criterion <sup>1</sup> | Result     | Uncertainty | Qualifier | MDC   | Result     | Uncertainty | Qualifier | MDC   | Result     | Uncertainty | Qualifier | MDC   | Result       | Uncertainty | Qualifier | MDC   |
| <b>Alpha Spectroscopy</b>                    |            |                       |                                                    |            |             |           |       |            |             |           |       |            |             |           |       |              |             |           |       |
| ASTM C 1475-00 Modified                      | Np-237     | 0.05                  | 0.6                                                | NA         | NA          | NA        | NA    | NA         | NA          | NA        | NA    | -0.002     | 0.010       | U         | 0.026 | NA           | NA          | NA        | NA    |
| DOE EML                                      | Am-241     | 0.05                  | 1.25                                               | 0.006      | 0.013       | U         | 0.022 | 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      | 0.006       | U         | 0.012 | NA         | NA          | NA        | NA    | NA         | NA          | NA        | NA    | NA           | NA          | NA        | NA    |
|                                              | Cm-243/244 | 0.05                  | 2.5                                                | 0.000      | 0.009       | U         | 0.018 | 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    | 0.002        | 0.007       | U         | 0.012 |
| DOE EML<br>HASL 300 U-02-RC Mod              | U-233/234  |                       | 7.8 <sup>2</sup>                                   | NA         | NA          | NA        | NA    | NA         | NA          | NA        | NA    | NA         | NA          | NA        | NA    | 0.024        | 0.021       | U         | 0.028 |
|                                              | U-235/236  | 0.05                  | 4.82                                               | NA         | NA          | NA        | NA    | NA         | NA          | NA        | NA    | NA         | NA          | NA        | NA    | 0.005        | 0.012       | U         | 0.019 |
|                                              | U-238      |                       | 8.4 <sup>2</sup>                                   | NA         | NA          | NA        | NA    | NA         | NA          | NA        | NA    | NA         | NA          | NA        | NA    | <b>0.029</b> | 0.020       |           | 0.023 |
| <b>Gamma Spectroscopy</b>                    |            |                       |                                                    |            |             |           |       |            |             |           |       |            |             |           |       |              |             |           |       |
| DOE HASL                                     | Am-241     | 0.05                  | 1.25                                               | NA         | NA          | NA        | NA    | -0.106     | 0.126       | U         | 0.181 | NA         | NA          | NA        | NA    | NA           | NA          | NA        | NA    |
| 300, 4.5.2.3/Ga-                             | Cs-137     | 1                     | 6.6                                                | NA         | NA          | NA        | NA    | 0.012      | 0.060       | U         | 0.103 | NA         | NA          | NA        | NA    | NA           | NA          | NA        | NA    |
| <b>Gas Flow Proportional Counting</b>        |            |                       |                                                    |            |             |           |       |            |             |           |       |            |             |           |       |              |             |           |       |
| 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    |
| <b>Liquid Scintillation Counting</b>         |            |                       |                                                    |            |             |           |       |            |             |           |       |            |             |           |       |              |             |           |       |
| 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

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 > MDC

<sup>1</sup>- NMED RCB Release Criterion and Required MDC Issued by NMED RCB in Letter to Thermo Eberline LLC dated December 6, 2019

<sup>2</sup> - 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



**THERMO EBERLINE LLC**  
**BUILDING CHARACTERIZATION - VOLUMETRIC LABORATORY ANALYSES**  
**Table 3-13: PAOC-2**

| Sample ID                                    |            |                       |                                                    | 2-W-W-5-R    |             |           |       |
|----------------------------------------------|------------|-----------------------|----------------------------------------------------|--------------|-------------|-----------|-------|
| GEL Laboratory ID                            |            |                       |                                                    | 1204666399   |             |           |       |
| Collection Date                              |            |                       |                                                    | 10/5/20      |             |           |       |
| Substrate                                    |            |                       |                                                    | Sheetrock    |             |           |       |
| Building Surface                             |            |                       |                                                    | Wall         |             |           |       |
| QC Code                                      |            |                       |                                                    | Duplicate    |             |           |       |
| Analysis Method                              | Analyte    | NMED RCB Required MDC | NMED RCB Volumetric Release Criterion <sup>1</sup> | Result       | Uncertainty | Qualifier | MDC   |
| <b>Alpha Spectroscopy</b>                    |            |                       |                                                    |              |             |           |       |
| ASTM C 1475-00 Modified                      | Np-237     | 0.05                  | 0.6                                                | NA           | NA          | NA        | NA    |
| DOE EML                                      | Am-241     | 0.05                  | 1.25                                               | NA           | NA          | NA        | NA    |
| HASL 300 Am-05-RC Mod                        | Cf-252     | 0.05                  | 4.12                                               | NA           | NA          | NA        | NA    |
| DOE EML                                      | Cm-243/244 | 0.05                  | 2.5                                                | NA           | NA          | NA        | NA    |
| DOE EML                                      | Pu-238     | 0.05                  | 1.52                                               | NA           | NA          | NA        | NA    |
| HASL 300 Pu-                                 | Pu-239/240 | 0.05                  | 1.37                                               | NA           | NA          | NA        | NA    |
| DOE EML<br>HASL 300 U-02-RC Mod              | U-233/234  |                       | 7.8 <sup>2</sup>                                   | 0.024        | 0.021       | U         | 0.028 |
|                                              | U-235/236  | 0.05                  | 4.82                                               | 0.005        | 0.012       | U         | 0.019 |
|                                              | U-238      |                       | 8.4 <sup>2</sup>                                   | <b>0.029</b> | 0.020       |           | 0.023 |
| <b>Gamma Spectroscopy</b>                    |            |                       |                                                    |              |             |           |       |
| DOE HASL                                     | Am-241     | 0.05                  | 1.25                                               | NA           | NA          | NA        | NA    |
| 300, 4.5.2.3/Ga-                             | Cs-137     | 1                     | 6.6                                                | NA           | NA          | NA        | NA    |
| <b>Gas Flow Proportional Counting</b>        |            |                       |                                                    |              |             |           |       |
| EPA 905.0 Modified/DOE RP501 Rev. 1 Modified | Sr-90      | 0.1                   | 1.03                                               | NA           | NA          | NA        | NA    |
| <b>Liquid Scintillation Counting</b>         |            |                       |                                                    |              |             |           |       |
| EPA 906.0 Modified                           | Tritium    | 1                     | 64.8                                               | NA           | NA          | NA        | NA    |
| EPA EERF C-01 Modified                       | C-14       | 1                     | 6.96                                               | 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

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QC Code Normal = Sample, Duplicate = Duplicate of Sample