

Table 4-11  
Ecological Risk Assessment Tissue PFAS Analytical Results  
  
PFAS CERCLA Remedial Investigation Site Characterization Summary Report  
Former Loring Air Force Base  
Limestone, ME

| Category:                                                          | Aquatic                    |                         |                         |                         |                         |                         |                         |                         |                         |                         |
|--------------------------------------------------------------------|----------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Drainage/Area:                                                     | Butterfield Brook Drainage |                         |                         |                         |                         |                         |                         |                         |                         |                         |
| Location ID:                                                       | E-A-BIOA_FSH01             | E-A-BIOA_INV01          | E-A-BIOA_INV02          | E-A-BIOA_PLT01          | E-A-BIOB_FSH01          | E-A-BIOB_INV01          | E-A-BIOB_PLT01          | E-A-BIOC_FSH01          | E-A-BIOC_INV01          | E-A-BIOC_PLT01          |
| Sample ID:                                                         | E-A-BIOA_FSH01_20240820    | E-A-BIOA_INV01_20240820 | E-A-BIOA_INV02_20240820 | E-A-BIOA_PLT01_20240820 | E-A-BIOB_FSH01_20240815 | E-A-BIOB_INV01_20240817 | E-A-BIOB_PLT01_20240815 | E-A-BIOC_FSH01_20240817 | E-A-BIOC_INV01_20240816 | E-A-BIOC_PLT01_20240816 |
| Sample Date:                                                       | 8/20/2024                  | 8/20/2024               | 8/20/2024               | 8/20/2024               | 8/15/2024               | 8/17/2024               | 8/15/2024               | 8/17/2024               | 8/16/2024               | 8/16/2024               |
| Sample Depth (ft bgs):                                             | 0.00-0.00                  | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               |
| Sample Type:                                                       | N                          | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       |
| Latitude:                                                          | 46.96935755                | 46.96933903             | 46.96933337             | 46.96934152             | 46.96677956             | 46.96691                | 46.96666                | 46.96743509             | 46.967669               | 46.96765345             |
| Longitude:                                                         | -67.89050658               | -67.89061225            | -67.89059246            | -67.89059243            | -67.87684574            | -67.877                 | -67.87679               | -67.87416297            | -67.873971              | -67.87393837            |
| Analyte                                                            | mg/kg                      | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   |
| Perfluorobutanoic acid (PFBA)                                      | 0.00243 U                  | 0.00295 U               | 0.004 U                 | 0.000599 J              | 0.00243 U               | 0.00211 U               | 0.000602 U              | 0.0028 U                | 0.000842 U              | 0.000882 U              |
| Perfluoropentanoic acid (PFPeA)                                    | 0.00235 U                  | 0.00284 U               | 0.00386 U               | 0.000688 U              | 0.00235 U               | 0.00204 UJ              | 0.000581 U              | 0.0027 U                | 0 R                     | 0.00085 U               |
| Perfluorohexanoic acid (PFHxA)                                     | 0.00161 U                  | 0.00195 U               | 0.00264 U               | 0.000471 U              | 0.00161 U               | 0.0014 UJ               | 0.000398 U              | 0.00185 U               | 0 R                     | 0.000583 U              |
| Perfluoroheptanoic acid (PFHpA)                                    | 0.00152 U                  | 0.00184 U               | 0.0025 U                | 0.000446 U              | 0.00152 U               | 0.00132 UJ              | 0.000376 U              | 0.00175 U               | 0 R                     | 0.000551 U              |
| Perfluorooctanoic acid (PFOA)                                      | 0.00132 J                  | 0.00132 U               | 0.00179 U               | 0.000318 U              | 0.00109 U               | 0.000992 J              | 0.000269 U              | 0.00125 U               | 0.000302 J              | 0.000394 U              |
| Perfluorononanoic acid (PFNA)                                      | 0.00281                    | 0.0011 J                | 0.00257 U               | 0.000459 U              | 0.000798 J              | 0.00136 U               | 0.000387 U              | 0.00118 J               | 0.000541 U              | 0.000482 J              |
| Perfluorodecanoic acid (PFDA)                                      | 0.00487                    | 0.00205 U               | 0.00279 U               | 0.000497 U              | 0.00176                 | 0.00147 U               | 0.000419 U              | 0.00274                 | 0.000586 U              | 0.000614 U              |
| Perfluoroundecanoic acid (PFUnA)                                   | 0.0113                     | 0.00261                 | 0.00393                 | 0.000382 U              | 0.00213                 | 0.00113 U               | 0.000323 U              | 0.0015 U                | 0.000451 U              | 0.000472 U              |
| Perfluorododecanoic acid (PFDoA)                                   | 0.00197                    | 0.00126 U               | 0.00171 U               | 0.000306 U              | 0.00104 U               | 0.000906 U              | 0.000258 U              | 0.0012 U                | 0.000361 U              | 0.000378 U              |
| Perfluorotridecanoic acid (PFTrDA)                                 | 0.0017 U                   | 0.00209 J               | 0.0102                  | 0.000497 U              | 0.00101 J               | 0.000996 J              | 0.000419 U              | 0.00148 J               | 0.000586 U              | 0.000614 U              |
| Perfluorotetradecanoic acid (PFTeDA)                               | 0.00135 U                  | 0.00163 U               | 0.00227 J               | 0.000395 U              | 0.00135 U               | 0.00117 U               | 0.000333 U              | 0.00155 U               | 0.000466 U              | 0.000488 U              |
| Perfluorobutanesulfonic acid (PFBS)                                | 0.00148 U                  | 0.00179 U               | 0.00243 U               | 0.000433 U              | 0.00148 U               | 0.00128 U               | 0.000366 U              | 0.0017 U                | 0.000511 U              | 0.000535 U              |
| Perfluoropentanesulfonic acid (PFPeS)                              | 0.00087 U                  | 0.00105 U               | 0.00143 U               | 0.000255 U              | 0.00087 U               | 0.000755 U              | 0.000215 U              | 0.001 U                 | 0.000301 U              | 0.000315 U              |
| Perfluorohexanesulfonic acid (PFHxS)                               | 0.0123                     | 0.011                   | 0.0287                  | 0.000359 J              | 0.000887 J              | 0.0011 J                | 0.000323 U              | 0.0015 U                | 0.000451 U              | 0.000472 U              |
| Perfluoroheptanesulfonic acid (PFHpS)                              | 0.00344                    | 0.00184 U               | 0.0025 U                | 0.000446 U              | 0.00132 U               | 0.000376 U              | 0.00152 U               | 0.00175 U               | 0.000526 U              | 0.000551 U              |
| Perfluorooctanesulfonic acid (PFOS)                                | 0.632                      | 0.133                   | 0.203                   | 0.00151                 | 0.125                   | 0.00542                 | 0.000788                | 0.0661                  | 0.000793                | 0.00109                 |
| Perfluorononanesulfonic acid (PFNS)                                | 0.00476                    | 0.00176 J               | 0.00243 J               | 0.000503 U              | 0.00172 U               | 0.00149 U               | 0.000425 U              | 0.00198 U               | 0.000594 U              | 0.000622 U              |
| Perfluorodecanesulfonic acid (PFDS)                                | 0.00769                    | 0.00603                 | 0.0071                  | 0.00042 U               | 0.00143 U               | 0.00125 U               | 0.000355 U              | 0.00165 U               | 0.000496 U              | 0.00052 U               |
| Perfluorododecanesulfonic acid (PFDoS)                             | 0.00159 J                  | 0.00134 J               | 0.00256 J               | 0.000242 U              | 0.000826 U              | 0.000717 U              | 0.000204 U              | 0.00095 U               | 0.000286 U              | 0.000299 U              |
| 1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)               | 0.00574 U                  | 0.00695 U               | 0.00943 U               | 0.00168 U               | 0.00574 U               | 0.00498 U               | 0.00142 U               | 0.0066 U                | 0.00198 U               | 0.00208 U               |
| 1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)               | 0.00352 U                  | 0.00426 U               | 0.00579 U               | 0.00103 U               | 0.00352 U               | 0.00306 U               | 0.000871 U              | 0.00405 U               | 0.00122 U               | 0.00128 U               |
| 1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)               | 0.00348 U                  | 0.00421 U               | 0.00571 U               | 0.00102 U               | 0.00348 U               | 0.00302 U               | 0.00086 U               | 0.004 U                 | 0.0012 U                | 0.00126 U               |
| Perfluorooctane sulfonamide (PFOSA)                                | 0.00571                    | 0.00359                 | 0.00721                 | 0.000204 U              | 0.000696 U              | 0.000811 J              | 0.000172 U              | 0.0008 U                | 0.000241 U              | 0.000252 U              |
| N-methyl perfluorooctanesulfonamide (NMeFOSA)                      | 0.000435 U                 | 0.000526 U              | 0.000714 U              | 0.000127 U              | 0.000435 U              | 0.000377 U              | 0.000108 U              | 0.0005 U                | 0.00015 U               | 0.000157 U              |
| N-ethyl perfluorooctanesulfonamide (NEtFOSA)                       | 0.00148 U                  | 0.00179 U               | 0.00243 U               | 0.000433 U              | 0.00148 U               | 0.00128 U               | 0.000366 U              | 0.0017 U                | 0.000511 U              | 0.000535 U              |
| N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)          | 0.00161 U                  | 0.00195 U               | 0.00264 U               | 0.000471 U              | 0.00161 U               | 0.0014 U                | 0.000398 U              | 0.00185 U               | 0.000556 U              | 0.000583 U              |
| N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)           | 0.00165 U                  | 0.002 U                 | 0.00271 U               | 0.000484 U              | 0.00165 U               | 0.00143 U               | 0.000409 U              | 0.0019 U                | 0.000571 U              | 0.000598 U              |
| N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)               | 0.0083 U                   | 0.0101 U                | 0.0136 U                | 0.00243 U               | 0.0083 U                | 0.00721 U               | 0.00205 U               | 0.00955 U               | 0.00287 U               | 0.00301 U               |
| N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)                | 0.0087 U                   | 0.0105 U                | 0.0143 U                | 0.00255 U               | 0.0087 U                | 0.00755 U               | 0.00215 U               | 0.01 U                  | 0.00301 U               | 0.00315 U               |
| Hexafluoropropylene oxide dimer acid (HFPO-DA)                     | 0.00504 U                  | 0.00611 U               | 0.00829 U               | 0.00148 U               | 0.00504 U               | 0.00438 UJ              | 0.00125 U               | 0.0058 U                | 0 R                     | 0.00183 U               |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA)                        | 0.00391 U                  | 0.00474 U               | 0.00643 U               | 0.00115 U               | 0.00391 U               | 0.0034 UJ               | 0.000968 U              | 0.0045 U                | 0 R                     | 0.00142 U               |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                          | 0.003 U                    | 0.00363 U               | 0.00493 U               | 0.000879 U              | 0.003 U                 | 0.0026 UJ               | 0.000742 U              | 0.00345 U               | 0 R                     | 0.00109 U               |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                           | 0.00235 U                  | 0.00284 U               | 0.00386 U               | 0.000688 U              | 0.00235 U               | 0.00204 UJ              | 0.000581 UJ             | 0.0027 U                | 0 R                     | 0.00085 UJ              |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)                         | 0.000913 U                 | 0.00111 U               | 0.0015 U                | 0.000268 U              | 0.000913 U              | 0.000792 UJ             | 0.000226 U              | 0.00105 U               | 0 R                     | 0.000331 U              |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)    | 0.00543 U                  | 0.00658 U               | 0.00893 U               | 0.00159 U               | 0.00543 U               | 0.00472 UJ              | 0.00134 U               | 0.00625 U               | 0 R                     | 0.00197 U               |
| 11-Chlororeicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) | 0.00517 U                  | 0.00626 U               | 0.0085 U                | 0.00152 U               | 0.00517 U               | 0.00449 UJ              | 0.00128 U               | 0.00595 U               | 0 R                     | 0.00187 U               |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)                   | 0.00152 U                  | 0.00184 U               | 0.0025 U                | 0.000446 U              | 0.00152 U               | 0.00132 UJ              | 0.000376 U              | 0.00175 U               | 0 R                     | 0.000551 U              |
| 3-Perfluoropropyl propanoic acid (3:3FTCA)                         | 0.00213 U                  | 0.00258 U               | 0.0035 U                | 0.000624 U              | 0.00213 U               | 0.00185 UJ              | 0.000527 U              | 0.00245 U               | 0 R                     | 0.000772 U              |
| 2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)                       | 0.0297 U                   | 0.036 U                 | 0.0489 U                | 0.00871 U               | 0.0297 U                | 0.0258 UJ               | 0.00735 U               | 0.0342 U                | 0 R                     | 0.0108 U                |
| 3-Perfluoroheptyl propanoic acid (7:3FTCA)                         | 0.0161 U                   | 0.0195 U                | 0.0277 J                | 0.00471 U               | 0.0161 U                | 0.014 UJ                | 0.00398 U               | 0.0185 U                | 0 R                     | 0.00583 U               |

Notes  
There are no applicable screening levels for ecological tissue.  
See Table 1-1 for notes.

Table 4-11  
Ecological Risk Assessment Tissue PFAS Analytical Results  
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Former Loring Air Force Base  
Limestone, ME

| Category:                                                          | Aquatic                    |                         |                         |                         |                         |                         |                         |                         |                         |                         |
|--------------------------------------------------------------------|----------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Drainage/Area:                                                     | Butterfield Brook Drainage |                         |                         |                         |                         |                         |                         |                         |                         |                         |
| Location ID:                                                       | E-A-BIOD_FSH01             | E-A-BIOD_INV01          | E-A-BIOD_PLT01          | E-A-BIOE_FSH01          | E-A-BIOE_INV01          | E-A-BIOE_PLT01          | E-A-BIOF_FSH01          | E-A-BIOF_INV01          | E-A-BIOF_PLT01          | E-A-BIOG_FSH01          |
| Sample ID:                                                         | E-A-BIOD_FSH01_20240817    | E-A-BIOD_INV01_20240817 | E-A-BIOD_PLT01_20240817 | E-A-BIOE_FSH01_20240819 | E-A-BIOE_INV01_20240819 | E-A-BIOE_PLT01_20240818 | E-A-BIOF_FSH01_20240817 | E-A-BIOF_INV01_20240819 | E-A-BIOF_PLT01_20240816 | E-A-BIOG_FSH01_20240817 |
| Sample Date:                                                       | 8/17/2024                  | 8/17/2024               | 8/17/2024               | 8/19/2024               | 8/19/2024               | 8/18/2024               | 8/17/2024               | 8/19/2024               | 8/16/2024               | 8/17/2024               |
| Sample Depth (ft bgs):                                             | 0.00-0.00                  | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               |
| Sample Type:                                                       | N                          | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       |
| Latitude:                                                          | 46.95585739                | 46.95584246             | 46.95582602             | 46.95065193             | 46.95071728             | 46.95067                | 46.94714302             | 46.9475243              | 46.947482               | 46.94680624             |
| Longitude:                                                         | -67.88387142               | -67.88385854            | -67.88384655            | -67.853884              | -67.85398173            | -67.85399               | -67.85100484            | -67.85109146            | -67.851097              | -67.84608104            |
| Analyte                                                            | mg/kg                      | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   |
| Perfluorobutanoic acid (PFBA)                                      | 0.0028 U                   | 0.004 U                 | 0.00083 U               | 0.00243 U               | 0.00215 U               | 0.000957 U              | 0.00233 U               | 0.00165 U               | 0.000421 U              | 0.00267 U               |
| Perfluoropentanoic acid (PFPeA)                                    | 0.0027 U                   | 0.00386 U               | 0.0008 U                | 0.00235 U               | 0.00208 U               | 0.000923 U              | 0.00225 U               | 0.00159 U               | 0.000406 U              | 0.00257 U               |
| Perfluorohexanoic acid (PFHxA)                                     | 0.00185 U                  | 0.00264 U               | 0.000548 U              | 0.00161 U               | 0.00142 U               | 0.000632 U              | 0.00154 U               | 0.00109 U               | 0.000278 U              | 0.00176 U               |
| Perfluoroheptanoic acid (PFHpA)                                    | 0.00175 U                  | 0.0025 U                | 0.000519 U              | 0.00152 U               | 0.00135 U               | 0.000598 U              | 0.00146 U               | 0.00103 U               | 0.000263 U              | 0.00167 U               |
| Perfluorooctanoic acid (PFOA)                                      | 0.00125 U                  | 0.00179 U               | 0.00037 U               | 0.00109 U               | 0.00222                 | 0.000584 J              | 0.000638 J              | 0.00117 J               | 0.000135 J              | 0.00119 U               |
| Perfluorononanoic acid (PFNA)                                      | 0.0018 U                   | 0.00257 U               | 0.000533 U              | 0.00157 U               | 0.000904 J              | 0.000621 J              | 0.0016 J                | 0.00106 U               | 0.000271 U              | 0.00197                 |
| Perfluorodecanoic acid (PFDA)                                      | 0.00195 U                  | 0.00279 U               | 0.000578 U              | 0.00255                 | 0.0015 U                | 0.000667 U              | 0.00413                 | 0.00115 U               | 0.000293 U              | 0.00688                 |
| Perfluoroundecanoic acid (PFUnA)                                   | 0.0015 U                   | 0.00214 U               | 0.000444 U              | 0.00442                 | 0.00133 J               | 0.000513 U              | 0.00611                 | 0.00137 J               | 0.000226 U              | 0.00695                 |
| Perfluorododecanoic acid (PFDoA)                                   | 0.0012 U                   | 0.00171 U               | 0.000356 U              | 0.00112 J               | 0.000923 U              | 0.00041 U               | 0.00172                 | 0.00061 J               | 0.00018 UJ              | 0.00138 J               |
| Perfluorotridecanoic acid (PFTrDA)                                 | 0.00195 U                  | 0.00279 U               | 0.000578 U              | 0.00374                 | 0.00174                 | 0.000667 U              | 0.00595                 | 0.002                   | 0.000293 UJ             | 0.00321                 |
| Perfluorotetradecanoic acid (PFTeDA)                               | 0.00155 U                  | 0.00221 U               | 0.000459 U              | 0.00135 U               | 0.00119 U               | 0.00053 U               | 0.00123 J               | 0.000912 U              | 0.000233 U              | 0.00148 U               |
| Perfluorobutanesulfonic acid (PFBS)                                | 0.0017 U                   | 0.00243 U               | 0.000504 U              | 0.00148 U               | 0.00131 U               | 0.000581 U              | 0.00142 U               | 0.001 U                 | 0.000256 U              | 0.00162 U               |
| Perfluoropentanesulfonic acid (PFPeS)                              | 0.001 U                    | 0.00143 U               | 0.000296 U              | 0.00087 U               | 0.000769 U              | 0.000342 U              | 0.000833 U              | 0.000588 U              | 0.00015 U               | 0.000952 U              |
| Perfluorohexanesulfonic acid (PFHxS)                               | 0.0015 U                   | 0.00319                 | 0.000673 J              | 0.00271                 | 0.00417                 | 0.000642 J              | 0.00531                 | 0.00216                 | 0.000226 U              | 0.00152 J               |
| Perfluoroheptanesulfonic acid (PFHpS)                              | 0.00175 U                  | 0.0025 U                | 0.000519 U              | 0.00152 U               | 0.00135 U               | 0.000598 U              | 0.00146 U               | 0.00103 U               | 0.000263 U              | 0.00167 U               |
| Perfluorooctanesulfonic acid (PFOS)                                | 0.0259                     | 0.0433                  | 0.00348                 | 0.408                   | 0.0187                  | 0.0115                  | 0.466                   | 0.0143                  | 0.00196                 | 0.712                   |
| Perfluorononanesulfonic acid (PFNS)                                | 0.00198 U                  | 0.00282 U               | 0.000585 U              | 0.000922 J              | 0.00152 U               | 0.000675 U              | 0.00165 U               | 0.00116 U               | 0.000297 U              | 0.00108 J               |
| Perfluorodecanesulfonic acid (PFDS)                                | 0.00165 U                  | 0.00236 U               | 0.000489 U              | 0.00143 U               | 0.00127 U               | 0.000564 U              | 0.00138 U               | 0.000971 U              | 0.000248 U              | 0.00157 U               |
| Perfluorododecanesulfonic acid (PFDoS)                             | 0.00095 U                  | 0.00136 U               | 0.000281 U              | 0.000826 U              | 0.000731 U              | 0.000325 U              | 0.000792 U              | 0.000559 U              | 0.000143 U              | 0.000905 U              |
| 1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)               | 0.0066 U                   | 0.00943 U               | 0.00196 U               | 0.00574 U               | 0.00508 U               | 0.00226 U               | 0.0055 U                | 0.00388 U               | 0.000992 U              | 0.00629 U               |
| 1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)               | 0.00405 U                  | 0.00579 U               | 0.0012 U                | 0.00352 U               | 0.00312 U               | 0.00138 U               | 0.00338 U               | 0.00238 U               | 0.000609 U              | 0.00386 U               |
| 1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)               | 0.004 U                    | 0.00571 U               | 0.00119 U               | 0.00348 U               | 0.00308 U               | 0.00137 U               | 0.00333 U               | 0.00235 U               | 0.000602 U              | 0.00381 U               |
| Perfluorooctane sulfonamide (PFOSA)                                | 0.0008 U                   | 0.00114 U               | 0.000237 U              | 0.000696 U              | 0.000919 J              | 0.000147 J              | 0.000519 J              | 0.000471 U              | 0.00012 U               | 0.000762 U              |
| N-methyl perfluorooctanesulfonamide (NMeFOSA)                      | 0.0005 U                   | 0.000714 U              | 0.000148 U              | 0.000435 U              | 0.000385 U              | 0.000171 U              | 0.000417 U              | 0.000294 U              | 0.000075 U              | 0.000476 U              |
| N-ethyl perfluorooctanesulfonamide (NEtFOSA)                       | 0.0017 U                   | 0.00243 U               | 0.000504 U              | 0.00148 U               | 0.00131 U               | 0.000581 U              | 0.00142 U               | 0.001 U                 | 0.000256 U              | 0.00162 U               |
| N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)          | 0.00185 U                  | 0.00264 U               | 0.000548 U              | 0.00161 U               | 0.00142 U               | 0.000632 U              | 0.00154 U               | 0.00109 U               | 0.000278 U              | 0.00176 U               |
| N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)           | 0.0019 U                   | 0.00271 U               | 0.000563 U              | 0.00165 U               | 0.00146 U               | 0.00065 U               | 0.00158 U               | 0.00112 U               | 0.000286 U              | 0.00181 U               |
| N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)               | 0.00955 U                  | 0.0136 U                | 0.00283 U               | 0.0083 U                | 0.00735 U               | 0.00326 U               | 0.00796 U               | 0.00562 U               | 0                       | 0.0091 U                |
| N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)                | 0.01 U                     | 0.0143 U                | 0.00296 U               | 0.0087 U                | 0.00769 U               | 0.00342 U               | 0.00833 U               | 0.00588 U               | 0.0015 U                | 0.00952 U               |
| Hexafluoropropylene oxide dimer acid (HFPO-DA)                     | 0.0058 U                   | 0.00829 U               | 0.00172 U               | 0.00504 U               | 0.00446 U               | 0.00198 U               | 0.00483 U               | 0.00341 U               | 0.000872 U              | 0.00552 U               |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA)                        | 0.0045 U                   | 0.00643 U               | 0.00133 U               | 0.00391 U               | 0.00346 U               | 0.00154 U               | 0.00375 U               | 0.00265 U               | 0.000677 U              | 0.00429 U               |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                          | 0.00345 U                  | 0.00493 U               | 0.00102 U               | 0.003 U                 | 0.00265 U               | 0.00118 U               | 0.00288 U               | 0.00203 U               | 0.000519 U              | 0.00329 U               |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                           | 0.0027 U                   | 0.00386 U               | 0.0008 UJ               | 0.00235 U               | 0.00208 U               | 0.0012 J-               | 0.00225 U               | 0.00159 U               | 0.000406 UJ             | 0.00257 U               |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)                         | 0.00105 U                  | 0.0015 U                | 0.000311 U              | 0.000913 U              | 0.000808 U              | 0.000359 U              | 0.000875 U              | 0.000618 U              | 0.000158 U              | 0.001 U                 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)    | 0.00625 U                  | 0.00893 U               | 0.00185 U               | 0.00543 U               | 0.00481 U               | 0.00214 U               | 0.00521 U               | 0.00368 U               | 0.00094 U               | 0.00595 U               |
| 11-Chlororeicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) | 0.00595 U                  | 0.0085 U                | 0.00176 U               | 0.00517 U               | 0.00458 U               | 0.00203 U               | 0.00496 U               | 0.0035 U                | 0.000895 U              | 0.00567 U               |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)                   | 0.00175 U                  | 0.0025 U                | 0.000519 U              | 0.00152 U               | 0.00135 U               | 0.000598 U              | 0.00146 U               | 0.00103 U               | 0.000263 U              | 0.00167 U               |
| 3-Perfluoropropyl propanoic acid (3:3FTCA)                         | 0.00245 U                  | 0.0035 U                | 0.000726 U              | 0.00213 U               | 0.00188 U               | 0.000838 U              | 0.00204 U               | 0.00144 U               | 0.000368 U              | 0.00233 U               |
| 2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)                       | 0.0342 U                   | 0.0489 U                | 0.0101 U                | 0.0297 U                | 0.0263 U                | 0.0117 U                | 0.0285 U                | 0.0201 U                | 0.00514 U               | 0.0326 U                |
| 3-Perfluoroheptyl propanoic acid (7:3FTCA)                         | 0.0185 U                   | 0.0264 U                | 0.00548 U               | 0.0161 U                | 0.0142 U                | 0.00632 U               | 0.0154 U                | 0.0109 U                | 0.00278 U               | 0.0176 U                |

Notes  
There are no applicable screening levels for ecological tissue.  
See Table 1-1 for notes.

Table 4-11  
Ecological Risk Assessment Tissue PFAS Analytical Results

PFAS CERCLA Remedial Investigation Site Characterization Summary Report  
Former Loring Air Force Base  
Limestone, ME

| Category:                                                          | Aquatic                    |                         |                         |                         |                         |                         |                         |                         |                         |                         |
|--------------------------------------------------------------------|----------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Drainage/Area:                                                     | Butterfield Brook Drainage |                         |                         |                         |                         | Greenlaw Brook Drainage |                         |                         |                         |                         |
| Location ID:                                                       | E-A-BIOG_INV01             | E-A-BIOG_PLT01          | E-A-BIOH_FSH01          | E-A-BIOH_INV01          | E-A-BIOH_PLT01          | E-A-BIOI_FSH01          | E-A-BIOI_INV01          | E-A-BIOI_PLT01          | E-A-BIOJ_FSH01          | E-A-BIOJ_INV01          |
| Sample ID:                                                         | E-A-BIOG_INV01_20240818    | E-A-BIOG_PLT01_20240817 | E-A-BIOH_FSH01_20240818 | E-A-BIOH_INV01_20240819 | E-A-BIOH_PLT01_20240817 | E-A-BIOI_FSH01_20240817 | E-A-BIOI_INV01_20240817 | E-A-BIOI_PLT01_20240817 | E-A-BIOJ_FSH01_20240815 | E-A-BIOJ_INV01_20240815 |
| Sample Date:                                                       | 8/18/2024                  | 8/17/2024               | 8/18/2024               | 8/19/2024               | 8/17/2024               | 8/17/2024               | 8/17/2024               | 8/17/2024               | 8/15/2024               | 8/15/2024               |
| Sample Depth (ft bgs):                                             | 0.00-0.00                  | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               |
| Sample Type:                                                       | N                          | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       |
| Latitude:                                                          | 46.946852                  | 46.94685643             | 46.92938774             | 46.92947895             | 46.9294518              | 46.95897131             | 46.95898001             | 46.95898414             | 46.95468551             | 46.95473                |
| Longitude:                                                         | -67.846182                 | -67.84621443            | -67.8390831             | -67.83908033            | -67.83913915            | -67.90208546            | -67.90209638            | -67.90211               | -67.90832665            | -67.90828               |
| Analyte                                                            | mg/kg                      | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   |
| Perfluorobutanoic acid (PFBA)                                      | 0.00056 U                  | 0.000974 U              | 0.00229 U               | 0.002 U                 | 0.000634 J              | 0.00273 U               | 0.00339 U               | 0.000737 U              | 0.00273 U               | 0.00243 U               |
| Perfluoropentanoic acid (PFPeA)                                    | 0.00054 UJ                 | 0.000939 U              | 0.0022 U                | 0.00193 U               | 0.000401 UJ             | 0.00263 U               | 0.00327 U               | 0.000711 U              | 0.00263 U               | 0.00235 UJ              |
| Perfluorohexanoic acid (PFHxA)                                     | 0.00037 UJ                 | 0.000643 U              | 0.00151 U               | 0.00132 U               | 0.000275 UJ             | 0.0018 U                | 0.00224 U               | 0.000487 U              | 0.0018 U                | 0.00161 UJ              |
| Perfluoroheptanoic acid (PFHpA)                                    | 0.00035 UJ                 | 0.000609 U              | 0.00143 U               | 0.000838 J              | 0.00026 UJ              | 0.00171 U               | 0.00212 U               | 0.000461 U              | 0.00171 U               | 0.00152 UJ              |
| Perfluorooctanoic acid (PFOA)                                      | 0.000355 J                 | 0.000724                | 0.00102 U               | 0.00227                 | 0.000186 U              | 0.00122 U               | 0.00152 U               | 0.000329 U              | 0.00122 U               | 0.00109 U               |
| Perfluorononanoic acid (PFNA)                                      | 0.000319 J                 | 0.00104                 | 0.00164                 | 0.000923 J              | 0.000268 U              | 0.00176 U               | 0.00218 U               | 0.000474 U              | 0.00176 U               | 0.00157 U               |
| Perfluorodecanoic acid (PFDA)                                      | 0.000416                   | 0.000475 J              | 0.00353                 | 0.00139 U               | 0.00029 U               | 0.0019 U                | 0.00236 U               | 0.000513 U              | 0.0019 U                | 0.0017 U                |
| Perfluoroundecanoic acid (PFUnA)                                   | 0.00095                    | 0.000522 U              | 0.00508                 | 0.00134 J               | 0.000223 U              | 0.00146 U               | 0.00182 U               | 0.000395 U              | 0.00146 U               | 0.0013 U                |
| Perfluorododecanoic acid (PFDoA)                                   | 0.00024 U                  | 0.000417 U              | 0.00142 J               | 0.000857 U              | 0.000178 U              | 0.00117 U               | 0.00145 U               | 0.000316 U              | 0.00117 U               | 0.00104 U               |
| Perfluorotridecanoic acid (PFTrDA)                                 | 0.000292 J                 | 0.000678 U              | 0.00414                 | 0.00167                 | 0.00029 U               | 0.0019 U                | 0.00129 J               | 0.000513 U              | 0.0019 U                | 0.00431                 |
| Perfluorotetradecanoic acid (PFTeDA)                               | 0.00031 U                  | 0.000539 U              | 0.000961 J              | 0.00111 U               | 0.00023 U               | 0.00151 U               | 0.00188 U               | 0.000408 U              | 0.00151 U               | 0.000839 J              |
| Perfluorobutanesulfonic acid (PFBS)                                | 0.00034 U                  | 0.000591 U              | 0.00139 U               | 0.00121 U               | 0.000253 U              | 0.00166 U               | 0.00206 U               | 0.000447 U              | 0.00166 U               | 0.00148 U               |
| Perfluoropentanesulfonic acid (PFPeS)                              | 0.0002 U                   | 0.000348 U              | 0.000816 U              | 0.000714 U              | 0.000149 U              | 0.000976 U              | 0.00121 U               | 0.000263 U              | 0.000976 U              | 0.00087 U               |
| Perfluorohexanesulfonic acid (PFHxS)                               | 0.000232 J                 | 0.000522 U              | 0.0022                  | 0.00482 J               | 0.000223 U              | 0.00146 U               | 0.00399                 | 0.000395 U              | 0.00146 U               | 0.00676                 |
| Perfluoroheptanesulfonic acid (PFHpS)                              | 0.00035 U                  | 0.000609 U              | 0.00143 U               | 0.00125 U               | 0.00026 U               | 0.00171 U               | 0.00212 U               | 0.000461 U              | 0.00171 U               | 0.00152 U               |
| Perfluorooctanesulfonic acid (PFOS)                                | 0.00598                    | 0.0196                  | 0.311                   | 0.0167                  | 0.00136                 | 0.00343                 | 0.00582                 | 0.000314 J              | 0.00897                 | 0.0631 J-               |
| Perfluorononanesulfonic acid (PFNS)                                | 0.000395 U                 | 0.000687 U              | 0.00161 U               | 0.00141 U               | 0.000294 U              | 0.00193 U               | 0.00239 U               | 0.00052 U               | 0.00193 U               | 0.00172 U               |
| Perfluorodecanesulfonic acid (PFDS)                                | 0.00033 U                  | 0.000574 U              | 0.00135 U               | 0.00118 U               | 0.000245 U              | 0.00161 U               | 0.002 U                 | 0.000434 U              | 0.00161 U               | 0.00143 U               |
| Perfluorododecanesulfonic acid (PFDoS)                             | 0.00019 U                  | 0.00033 U               | 0.000776 U              | 0.000679 U              | 0.000141 U              | 0.000927 U              | 0.00115 U               | 0.00025 U               | 0.000927 U              | 0.000826 U              |
| 1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)               | 0.00132 U                  | 0.0023 U                | 0.00539 U               | 0.00471 U               | 0.000981 U              | 0.00644 U               | 0.008 U                 | 0.00174 U               | 0.00644 U               | 0.00574 U               |
| 1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)               | 0.00081 U                  | 0.00141 U               | 0.00331 U               | 0.00289 U               | 0.000602 U              | 0.00395 U               | 0.00491 U               | 0.00107 U               | 0.00395 U               | 0.00352 U               |
| 1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)               | 0.0008 U                   | 0.00139 U               | 0.00327 U               | 0.00286 U               | 0.000595 U              | 0.0039 U                | 0.00485 U               | 0.00105 U               | 0.0039 U                | 0.00348 U               |
| Perfluorooctane sulfonamide (PFOSA)                                | 0.000296 J                 | 0.000278 U              | 0.000467 J              | 0.000459 J              | 0.000119 U              | 0.00078 U               | 0.00097 U               | 0.000211 U              | 0.00078 U               | 0.000696 U              |
| N-methyl perfluorooctanesulfonamide (NMeFOSA)                      | 0.0001 U                   | 0.000174 U              | 0.000408 U              | 0.000357 U              | 0.000074 U              | 0.000488 U              | 0.000606 U              | 0.000132 U              | 0.000488 U              | 0.000435 U              |
| N-ethyl perfluorooctanesulfonamide (NEtFOSA)                       | 0.00034 U                  | 0 R                     | 0.00139 U               | 0.00121 U               | 0.000253 U              | 0.00166 U               | 0.00206 U               | 0.000447 U              | 0.00166 U               | 0.00148 U               |
| N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)          | 0.00037 U                  | 0.000643 U              | 0.00151 U               | 0.00132 U               | 0.000275 U              | 0.0018 U                | 0.00224 U               | 0.000487 U              | 0.0018 U                | 0.00161 U               |
| N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)           | 0.00038 U                  | 0.000661 U              | 0.00155 U               | 0.00136 U               | 0.000283 U              | 0.00185 U               | 0.0023 U                | 0.0005 U                | 0.00185 U               | 0.00165 U               |
| N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)               | 0.00191 U                  | 0 R                     | 0.0078 U                | 0.00682 U               | 0.00142 U               | 0.00932 U               | 0.0116 U                | 0.00251 U               | 0.00932 U               | 0.0083 U                |
| N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)                | 0.002 U                    | 0 R                     | 0.00816 U               | 0.00714 U               | 0.00149 U               | 0.00976 U               | 0.0121 U                | 0.00263 U               | 0.00976 UJ              | 0.0087 U                |
| Hexafluoropropylene oxide dimer acid (HFPO-DA)                     | 0.00116 UJ                 | 0.00202 U               | 0.00473 U               | 0.00414 U               | 0.000862 UJ             | 0.00566 U               | 0.00703 U               | 0.00153 U               | 0.00566 U               | 0.00504 UJ              |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA)                        | 0.0009 UJ                  | 0.00157 U               | 0.00367 U               | 0.00321 U               | 0.000669 UJ             | 0.00439 U               | 0.00545 U               | 0.00118 U               | 0.00439 U               | 0.00391 UJ              |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                          | 0.00069 UJ                 | 0.0012 U                | 0.00282 U               | 0.00246 U               | 0.000513 UJ             | 0.00337 U               | 0.00418 U               | 0.000908 U              | 0.00337 U               | 0.003 UJ                |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                           | 0.00054 UJ                 | 0.000939 UJ             | 0.0022 U                | 0.00193 U               | 0.000401 UJ             | 0.00263 U               | 0.00327 U               | 0.000711 UJ             | 0.00263 U               | 0.00235 UJ              |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)                         | 0.00021 UJ                 | 0.000365 U              | 0.000857 U              | 0.00075 U               | 0.000156 UJ             | 0.00102 U               | 0.00127 U               | 0.000276 U              | 0.00102 U               | 0.000913 UJ             |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONs)    | 0.00125 UJ                 | 0.00217 U               | 0.0051 U                | 0.00446 U               | 0.000929 UJ             | 0.0061 U                | 0.00758 U               | 0.00164 U               | 0.0061 U                | 0.00543 UJ              |
| 11-Chlororeicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) | 0.00119 UJ                 | 0.00207 U               | 0.00486 U               | 0.00425 U               | 0.000885 UJ             | 0.0058 U                | 0.00721 U               | 0.00157 U               | 0.0058 U                | 0.00517 UJ              |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)                   | 0.00035 UJ                 | 0.000609 U              | 0.00143 U               | 0.00125 U               | 0.00026 UJ              | 0.00171 U               | 0.00212 U               | 0.000461 U              | 0.00171 U               | 0.00152 UJ              |
| 3-Perfluoropropyl propanoic acid (3:3FTCA)                         | 0.00049 UJ                 | 0.000852 U              | 0.002 U                 | 0.00175 U               | 0.000364 UJ             | 0.00239 U               | 0.00297 U               | 0.000645 U              | 0.00239 U               | 0.00213 UJ              |
| 2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)                       | 0.00684 UJ                 | 0.0119 U                | 0.0279 U                | 0.0244 U                | 0.00509 UJ              | 0.0334 U                | 0.0415 U                | 0.009 U                 | 0.0334 U                | 0.0297 UJ               |
| 3-Perfluoroheptyl propanoic acid (7:3FTCA)                         | 0.0037 UJ                  | 0.00643 U               | 0.0151 U                | 0.0132 U                | 0.00275 UJ              | 0.018 U                 | 0.0224 U                | 0.00487 U               | 0.018 U                 | 0.0124 J                |

Notes  
There are no applicable screening levels for ecological tissue.  
See Table 1-1 for notes.

Table 4-11  
Ecological Risk Assessment Tissue PFAS Analytical Results

PFAS CERCLA Remedial Investigation Site Characterization Summary Report  
Former Loring Air Force Base  
Limestone, ME

| Category:                                                           | Aquatic                 |                         |                         |                         |                         |                         |                         |                         |                         |                         |
|---------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Drainage/Area:                                                      | Greenlaw Brook Drainage |                         |                         |                         |                         |                         |                         |                         |                         |                         |
| Location ID:                                                        | E-A-BIOJ_PLT01          | E-A-BIOK_FSH01          | E-A-BIOK_INV01          | E-A-BIOK_INV02          | E-A-BIOK_PLT01          | E-A-BIOK_PLT02          | E-A-BIOL_INV01          | E-A-BIOL_PLT01          | E-A-BIOM_FSH01          | E-A-BIOM_PLT01          |
| Sample ID:                                                          | E-A-BIOJ_PLT01_20240816 | E-A-BIOK_FSH01_20240817 | E-A-BIOK_INV01_20240816 | E-A-BIOK_INV02_20240818 | E-A-BIOK_PLT01_20240816 | E-A-BIOK_PLT02_20240816 | E-A-BIOL_INV01_20240815 | E-A-BIOL_PLT01_20240815 | E-A-BIOM_FSH01_20240814 | E-A-BIOM_PLT01_20240816 |
| Sample Date:                                                        | 8/16/2024               | 8/17/2024               | 8/16/2024               | 8/18/2024               | 8/16/2024               | 8/16/2024               | 8/15/2024               | 8/15/2024               | 8/14/2024               | 8/16/2024               |
| Sample Depth (ft bgs):                                              | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               |
| Sample Type:                                                        | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       |
| Latitude:                                                           | 46.95447227             | 46.948641               | 46.94861246             | 46.948626               | 46.94861                | 46.94861                | 46.94331783             | 46.94326827             | 46.94590994             | 46.94589                |
| Longitude:                                                          | -67.90931054            | -67.904395              | -67.90440344            | -67.90439               | -67.90445               | -67.90445               | -67.90965134            | -67.90963864            | -67.9041804             | -67.9043                |
| Analyte                                                             | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   |
| Perfluorobutanoic acid (PFBA)                                       | 0.00119 U               | 0.00287 U               | 0.000549 U              | 0.000554 U              | 0.00323                 | 0.00304                 | 0.00209 J               | 0.00171 J               | 0.00311 U               | 0.000533 U              |
| Perfluoropentanoic acid (PFPeA)                                     | 0.00115 U               | 0.00277 U               | 0.000529 U              | 0.000535 U              | 0.00409                 | 0.00439                 | 0.00246 J               | 0.00144 U               | 0.003 U                 | 0.000514 U              |
| Perfluorohexanoic acid (PFHxA)                                      | 0.000787 U              | 0.0019 U                | 0.000363 U              | 0.000366 U              | 0.0012                  | 0.000587 U              | 0.00243                 | 0.000987 U              | 0.00206 U               | 0.00125                 |
| Perfluoroheptanoic acid (PFHpA)                                     | 0.000745 U              | 0.00179 U               | 0.000343 U              | 0.000347 U              | 0.000568 J              | 0.000772                | 0.00748                 | 0.000933 U              | 0.00194 U               | 0.000681                |
| Perfluorooctanoic acid (PFOA)                                       | 0.000532 U              | 0.000997 J              | 0.000475                | 0.000395 J              | 0.0022                  | 0.00298                 | 0.00854                 | 0.0019                  | 0.0007 J                | 0.00315                 |
| Perfluorononanoic acid (PFNA)                                       | 0.000727 J              | 0.00185 U               | 0.000217 J              | 0.000229 J              | 0.000576 J              | 0.000863                | 0.00202                 | 0.000675 J              | 0.00119 J               | 0.001                   |
| Perfluorodecanoic acid (PFDA)                                       | 0.00083 U               | 0.00627                 | 0.000692                | 0.000898                | 0.000671                | 0.000872                | 0.00113 J               | 0.00104 U               | 0.00217 U               | 0.000223 J              |
| Perfluoroundecanoic acid (PFUnA)                                    | 0.000638 U              | 0.00154 U               | 0.00127 J               | 0.00187 J               | 0.000599 J              | 0.000598 J              | 0.00298                 | 0.0008 U                | 0.00158 J               | 0.000357 J              |
| Perfluorododecanoic acid (PFDoA)                                    | 0.000511 U              | 0.00192 J               | 0.000235 U              | 0.000238 U              | 0.000369 U              | 0.000537 J              | 0.00255                 | 0.00064 U               | 0.00114 J               | 0.000229 U              |
| Perfluorotridecanoic acid (PFTrDA)                                  | 0.00083 U               | 0.00116 J               | 0.000409                | 0.000554                | 0.0006 U                | 0.000619 U              | 0.0117                  | 0.00104 U               | 0.00163 J               | 0.000379 J+             |
| Perfluorotetradecanoic acid (PFTeDA)                                | 0.00066 U               | 0.00159 U               | 0.000304 U              | 0.000307 U              | 0.000477 U              | 0.000492 U              | 0.00225                 | 0.000827 U              | 0.00172 U               | 0.000295 U              |
| Perfluorobutanesulfonic acid (PFBS)                                 | 0.000723 UJ             | 0.00305                 | 0.000333 U              | 0.000337 U              | 0.000523 U              | 0.00054 U               | 0.00142 U               | 0.000907 U              | 0.00189 U               | 0.000324 U              |
| Perfluoropentanesulfonic acid (PFPeS)                               | 0.000426 U              | 0.0189                  | 0.000196 U              | 0.000198 U              | 0.000986                | 0.00105                 | 0.00342                 | 0.000533 U              | 0.00111 U               | 0.000825                |
| Perfluorohexanesulfonic acid (PFHxS)                                | 0.000638 U              | 0.191                   | 0.00167                 | 0.00195                 | 0.00728                 | 0.0111                  | 0.0395                  | 0.00685                 | 0.024                   | 0.00719                 |
| Perfluoroheptanesulfonic acid (PFHpS)                               | 0.000745 U              | 0.0693                  | 0.000238 J              | 0.000286 J              | 0.000884                | 0.00144                 | 0.000971 J              | 0.000817 J              | 0.00758                 | 0.000333 U              |
| Perfluorooctanesulfonic acid (PFOS)                                 | 0.00361 J-              | 3.58                    | 0.114                   | 0.112                   | 0.193                   | 0.26                    | 0.119                   | 0.0498                  | 1.07                    | 0.301                   |
| Perfluorononanesulfonic acid (PFNS)                                 | 0.00084 U               | 0.025                   | 0.00195                 | 0.00194                 | 0.00134                 | 0.00164                 | 0.00117 J               | 0.00105 U               | 0.00548                 | 0.00158                 |
| Perfluorodecanesulfonic acid (PFDS)                                 | 0.000702 U              | 0.0183                  | 0.00921                 | 0.0111                  | 0.00412 J+              | 0.00534 J+              | 0.00238                 | 0.00088 U               | 0.00589                 | 0.00414 J+              |
| Perfluorododecanesulfonic acid (PFDoS)                              | 0.000404 U              | 0.00415                 | 0.00374                 | 0.00205 J               | 0.00423 J+              | 0.0031 J+               | 0.000792 U              | 0.000507 U              | 0.00121 J               | 0.000181 U              |
| 1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)                | 0.00281 U               | 0.00677 U               | 0.00129 U               | 0.00131 U               | 0.00203 U               | 0.0021 U                | 0.0055 U                | 0.00352 U               | 0.00733 U               | 0.00126 U               |
| 1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)                | 0.00172 U               | 0.00415 U               | 0.000615 J-             | 0.000704 J-             | 0.00239 J               | 0.00315                 | 0.00338 U               | 0.00216 U               | 0.0045 U                | 0.00384                 |
| 1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)                | 0.0017 U                | 0.134                   | 0.012 J-                | 0.0154                  | 0.0165                  | 0.0172                  | 0.00333 U               | 0.00213 U               | 0.0258                  | 0.0114                  |
| Perfluorooctane sulfonamide (PFOSA)                                 | 0.00034 U               | 0.0475 J-               | 0.0225 J-               | 0.0478                  | 0.011                   | 0.0111                  | 0.00673                 | 0.000621 J              | 0.0106                  | 0.013                   |
| N-methyl perfluorooctanesulfonamide (NMeFOSA)                       | 0.000213 U              | 0.000513 U              | 0.000098 U              | 0.000099 U              | 0.000154 U              | 0.000159 U              | 0.000417 U              | 0.000267 U              | 0.000556 U              | 0.000095 U              |
| N-ethyl perfluorooctanesulfonamide (NEtFOSA)                        | 0.000723 U              | 0.00174 U               | 0.000333 U              | 0.000337 U              | 0.000523 U              | 0.00054 U               | 0.00142 U               | 0.000907 U              | 0.00189 U               | 0.000324 U              |
| N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)           | 0.000787 U              | 0.0019 U                | 0.000363 U              | 0.000366 U              | 0.000569 U              | 0.000587 U              | 0.00154 U               | 0.000987 U              | 0.00206 U               | 0.00139                 |
| N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)            | 0.000809 U              | 0.00117 J               | 0.000283 J-             | 0.000761 J-             | 0.000585 U              | 0.000603 U              | 0.00158 U               | 0.00101 U               | 0.00211 U               | 0.000362 U              |
| N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)                | 0.00406 U               | 0.00979 U               | 0.00187 U               | 0.00189 U               | 0.00294 U               | 0.00303 U               | 0.00796 U               | 0.00509 U               | 0.0106 U                | 0.00628                 |
| N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)                 | 0.00426 U               | 0.0103 U                | 0.00196 U               | 0.00198 U               | 0.00308 U               | 0.00317 U               | 0.00833 U               | 0.00533 U               | 0.0111 U                | 0.0019 U                |
| Hexafluoropropylene oxide dimer acid (HFPO-DA)                      | 0.00247 U               | 0.00595 U               | 0.00114 U               | 0.00115 U               | 0.00178 U               | 0.00184 U               | 0.00483 U               | 0.00309 U               | 0.00644 U               | 0.0011 U                |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA)                         | 0.00191 U               | 0.00462 U               | 0.000882 U              | 0.000891 U              | 0.00138 U               | 0.00143 U               | 0.00375 U               | 0.0024 U                | 0.005 U                 | 0.000857 U              |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                           | 0.00147 U               | 0.00354 U               | 0.000676 U              | 0.000683 U              | 0.00106 U               | 0.0011 U                | 0.00288 U               | 0.00184 U               | 0.00383 U               | 0.000657 U              |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                            | 0.00115 UJ              | 0.00277 U               | 0.000529 U              | 0.000535 U              | 0.00251 J-              | 0.00337 J-              | 0.00149 J               | 0.00144 UJ              | 0.003 U                 | 0.000514 UJ             |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)                          | 0.000447 U              | 0.00108 U               | 0.000206 U              | 0.000208 U              | 0.000323 U              | 0.000333 U              | 0.000875 U              | 0.00056 U               | 0.00117 U               | 0.0002 U                |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)     | 0.00266 U               | 0.00641 U               | 0.00123 U               | 0.00124 U               | 0.00192 UJ              | 0.00198 UJ              | 0.00521 U               | 0.00333 U               | 0.00694 U               | 0.00119 UJ              |
| 11-Chlororeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUDs) | 0.00253 U               | 0.0061 U                | 0.00117 U               | 0.00118 U               | 0.00183 U               | 0.00189 U               | 0.00496 U               | 0.00317 U               | 0.00661 U               | 0.00113 U               |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)                    | 0.000745 U              | 0.00179 U               | 0.000343 U              | 0.000347 U              | 0.000538 U              | 0.000556 U              | 0.00146 U               | 0.000933 U              | 0.00194 U               | 0.000333 U              |
| 3-Perfluoropropyl propanoic acid (3:3FTCA)                          | 0.00104 U               | 0.00251 U               | 0.00048 U               | 0.000485 U              | 0.000754 U              | 0.000778 U              | 0.00204 U               | 0.00131 U               | 0.00272 U               | 0.000467 U              |
| 2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)                        | 0.0146 U                | 0.0351 U                | 0.00671 U               | 0.00677 U               | 0.0105 U                | 0.0109 U                | 0.0325 J                | 0.0182 U                | 0.0326 J                | 0.00651 U               |
| 3-Perfluoroheptyl propanoic acid (7:3FTCA)                          | 0.00787 U               | 0.0652                  | 0.0189                  | 0.0366                  | 0.00569 U               | 0.00587 U               | 0.0154 U                | 0.00987 U               | 0.092                   | 0.00348 J               |

Notes  
There are no applicable screening levels for ecological tissue.  
See Table 1-1 for notes.

Table 4-11  
Ecological Risk Assessment Tissue PFAS Analytical Results

PFAS CERCLA Remedial Investigation Site Characterization Summary Report  
Former Loring Air Force Base  
Limestone, ME

| Category:                                                          | Aquatic                 |                         |                         |                         |                         |                         |                         |                         |                         |                         |
|--------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Drainage/Area:                                                     | Greenlaw Brook Drainage |                         |                         |                         |                         |                         |                         |                         |                         |                         |
| Location ID:                                                       | E-A-BION_FSH01          | E-A-BION_INV01          | E-A-BION_INV02          | E-A-BION_PLT01          | E-A-BIOO_FSH01          | E-A-BIOO_INV01          | E-A-BIOO_INV02          | E-A-BIOO_PLT01          | E-A-BIOO_PLT02          | E-A-BIOP_FSH01          |
| Sample ID:                                                         | E-A-BION_FSH01_20240815 | E-A-BION_INV01_20240815 | E-A-BION_INV02_20240815 | E-A-BION_PLT01_20240815 | E-A-BIOO_FSH01_20240818 | E-A-BIOO_INV01_20240813 | E-A-BIOO_INV02_20240818 | E-A-BIOO_PLT01_20240813 | E-A-BIOO_PLT02_20240818 | E-A-BIOP_FSH01_20240813 |
| Sample Date:                                                       | 8/15/2024               | 8/15/2024               | 8/15/2024               | 8/15/2024               | 8/18/2024               | 8/13/2024               | 8/18/2024               | 8/13/2024               | 8/18/2024               | 8/13/2024               |
| Sample Depth (ft bgs):                                             | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               |
| Sample Type:                                                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       |
| Latitude:                                                          | 46.93973573             | 46.93969976             | 46.939709               | 46.93978094             | 46.93140123             | 46.930657               | 46.93136688             | 46.930337               | 46.93112                | 46.9295665              |
| Longitude:                                                         | -67.91167739            | -67.91215112            | -67.912145              | -67.91206958            | -67.92042799            | -67.92118981            | -67.92043793            | -67.921787              | -67.92036               | -67.92312887            |
| Analyte                                                            | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   |
| Perfluorobutanoic acid (PFBA)                                      | 0.00224 U               | 0.00279 J               | 0.00116 J               | 0.00148 J               | 0.00255 U               | 0.0155                  | 0.00255 U               | 0.001 U                 | 0.000868 U              | 0.0028 U                |
| Perfluoropentanoic acid (PFPeA)                                    | 0.00216 U               | 0.00554                 | 0.00159 J               | 0.000947 U              | 0.00245 U               | 0.00132 J               | 0.00245 U               | 0.000964 U              | 0.000837 U              | 0.0027 U                |
| Perfluorohexanoic acid (PFHxA)                                     | 0.00148 U               | 0.00532                 | 0.00148 U               | 0.000649 U              | 0.00168 U               | 0.0334                  | 0.00168 U               | 0.000661 U              | 0.000574 U              | 0.00185 U               |
| Perfluoroheptanoic acid (PFHpA)                                    | 0.0014 U                | 0.00493                 | 0.0027                  | 0.000614 U              | 0.00159 U               | 0.00795                 | 0.000898 J              | 0.000625 U              | 0.000543 U              | 0.00175 U               |
| Perfluorooctanoic acid (PFOA)                                      | 0.000974 J              | 0.0032                  | 0.004                   | 0.000615 J              | 0.00114 U               | 1.26                    | 0.00266                 | 0.000961                | 0.000248 J              | 0.00125 U               |
| Perfluorononanoic acid (PFNA)                                      | 0.00488                 | 0.000688 J              | 0.00107 J               | 0.000335 J              | 0.00164 U               | 0.00814                 | 0.00164 U               | 0.000867                | 0.000302 J              | 0.00317                 |
| Perfluorodecanoic acid (PFDA)                                      | 0.00777                 | 0.00139 U               | 0.00156 U               | 0.000684 U              | 0.00318                 | 0.00142 U               | 0.00177 U               | 0.000696 U              | 0.000605 U              | 0.00762                 |
| Perfluoroundecanoic acid (PFUnA)                                   | 0.00831                 | 0.00166                 | 0.00154 J               | 0.000526 U              | 0.00672                 | 0.00137 J               | 0.0012 J                | 0.000536 U              | 0.000465 U              | 0.0102                  |
| Perfluorododecanoic acid (PFDoA)                                   | 0.00459                 | 0.00169                 | 0.00131 J               | 0.000421 U              | 0.00308                 | 0.000536 J              | 0.000702 J              | 0.000429 U              | 0.000372 U              | 0.00282                 |
| Perfluorotridecanoic acid (PFTrDA)                                 | 0.00949                 | 0.00489                 | 0.00408                 | 0.000684 U              | 0.00643                 | 0.000958 J              | 0.00177 U               | 0.000696 U              | 0.000605 U              | 0.00429                 |
| Perfluorotetradecanoic acid (PFTeDA)                               | 0.00284                 | 0.00111 J               | 0.000986 J              | 0.000544 U              | 0.00109 J               | 0.00113 U               | 0.00141 U               | 0.000554 U              | 0.000481 U              | 0.00155 U               |
| Perfluorobutanesulfonic acid (PFBS)                                | 0.00136 U               | 0.00105 J               | 0.000992 J              | 0.000596 U              | 0.00155 U               | 0.0582                  | 0.000596 U              | 0.000607 U              | 0.000527 U              | 0.0017 U                |
| Perfluoropentanesulfonic acid (PFPeS)                              | 0.00115 J               | 0.00312                 | 0.0008 U                | 0.000351 U              | 0.000909 U              | 0.000727 U              | 0.000909 U              | 0.000357 U              | 0.00031 U               | 0.001 U                 |
| Perfluorohexanesulfonic acid (PFHxS)                               | 0.0249                  | 0.0164                  | 0.00911                 | 0.00113                 | 0.00286                 | 0.0297                  | 0.00426                 | 0.000756                | 0.000533 J              | 0.00464                 |
| Perfluoroheptanesulfonic acid (PFHpS)                              | 0.00779                 | 0.000666 J              | 0.0014 U                | 0.000614 U              | 0.00101 J               | 0.000904 J              | 0.00159 U               | 0.000625 U              | 0.000543 U              | 0.00188 J               |
| Perfluorooctanesulfonic acid (PFOS)                                | 2.99                    | 0.103                   | 0.0775                  | 0.0294                  | 0.942                   | 0.0696                  | 0.0317                  | 0.0335                  | 0.0132                  | 1.94                    |
| Perfluorononanesulfonic acid (PFNS)                                | 0.0276                  | 0.000873 J              | 0.000828 J              | 0.000693 U              | 0.00604                 | 0.00144 U               | 0.0018 U                | 0.000705 U              | 0.000612 U              | 0.0172                  |
| Perfluorodecanesulfonic acid (PFDS)                                | 0.0202                  | 0.00117 J               | 0.000786 J              | 0.000579 U              | 0.00143 J               | 0.0012 U                | 0.0015 U                | 0.000589 U              | 0.000512 U              | 0.0044                  |
| Perfluorododecanesulfonic acid (PFDoS)                             | 0.000948 J              | 0.000679 U              | 0.00076 U               | 0.000333 U              | 0.000864 U              | 0.000691 U              | 0.000864 U              | 0.000339 U              | 0.000295 U              | 0.00095 U               |
| 1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)               | 0.00528 U               | 0.00471 U               | 0.00528 U               | 0.00232 U               | 0.006 U                 | 0.0048 U                | 0.006 U                 | 0.00236 U               | 0.00205 U               | 0.0066 U                |
| 1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)               | 0.00324 U               | 0.00289 U               | 0.00324 U               | 0.00142 U               | 0.00368 U               | 0.0216                  | 0.00368 U               | 0.00145 U               | 0.00126 U               | 0.00405 U               |
| 1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)               | 0.00904                 | 0.00286 U               | 0.0032 U                | 0.0014 U                | 0.00364 U               | 0.00911                 | 0.00364 U               | 0.00143 U               | 0.00124 U               | 0.004 U                 |
| Perfluorooctane sulfonamide (PFOSA)                                | 0.0159                  | 0.00522                 | 0.00478                 | 0.00023 J               | 0.00182 J               | 0.000582 U              | 0.00188                 | 0.000286 U              | 0.000248 U              | 0.00318                 |
| N-methyl perfluorooctanesulfonamide (NMeFOSA)                      | 0.0004 U                | 0.000357 U              | 0.0004 U                | 0.000175 U              | 0.000455 U              | 0.000364 U              | 0.000455 U              | 0.000179 U              | 0.000155 U              | 0.0005 U                |
| N-ethyl perfluorooctanesulfonamide (NEtFOSA)                       | 0.00136 U               | 0.00121 U               | 0.00136 U               | 0.000596 U              | 0.00155 U               | 0.00124 U               | 0.00155 U               | 0.000607 U              | 0.000527 U              | 0.0017 U                |
| N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)          | 0.00148 U               | 0.00132 U               | 0.00148 U               | 0.000649 U              | 0.00168 U               | 0.00135 U               | 0.00168 U               | 0.000661 U              | 0.000574 U              | 0.00185 U               |
| N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)           | 0.00152 U               | 0.00136 U               | 0.00152 U               | 0.000667 U              | 0.00173 U               | 0.00237                 | 0.00173 U               | 0.000679 U              | 0.000589 U              | 0.0019 U                |
| N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)               | 0.00764 U               | 0.00682 U               | 0.00764 U               | 0.00335 U               | 0.00868 U               | 0.00695 U               | 0.00868 U               | 0.00341 U               | 0.00296 U               | 0.00955 U               |
| N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)                | 0.008 U                 | 0.00714 U               | 0.008 U                 | 0.00351 U               | 0.00909 U               | 0 R                     | 0.00909 U               | 0.00357 U               | 0.0031 U                | 0.01 U                  |
| Hexafluoropropylene oxide dimer acid (HFPO-DA)                     | 0.00464 U               | 0.00414 U               | 0.00464 U               | 0.00204 U               | 0.00527 U               | 0.00377 J               | 0.00527 U               | 0.00207 U               | 0.0018 U                | 0.0058 U                |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA)                        | 0.0036 U                | 0.00321 U               | 0.0036 U                | 0.00158 U               | 0.00409 U               | 0.00327 U               | 0.00409 U               | 0.00161 U               | 0.0014 U                | 0.0045 U                |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                          | 0.00276 U               | 0.00246 U               | 0.00276 U               | 0.00121 U               | 0.00314 U               | 0.00251 U               | 0.00314 U               | 0.00123 U               | 0.00107 U               | 0.00345 U               |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                           | 0.00216 U               | 0.00193 U               | 0.00117 J               | 0.000607 J-             | 0.00245 U               | 0.00196 U               | 0.00245 U               | 0.000964 U              | 0.000837 U              | 0.0027 U                |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)                         | 0.00084 U               | 0.00075 U               | 0.00084 U               | 0.000368 U              | 0.000955 U              | 0.000764 U              | 0.000955 U              | 0.000375 U              | 0.000326 U              | 0.00105 U               |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)    | 0.005 U                 | 0.00446 U               | 0.005 U                 | 0.00219 U               | 0.00568 U               | 0.00455 U               | 0.00568 U               | 0.00223 U               | 0.00194 U               | 0.00625 U               |
| 11-Chlororeicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) | 0.00476 U               | 0.00425 U               | 0.00476 U               | 0.00209 U               | 0.00541 U               | 0.00433 U               | 0.00541 U               | 0.00213 U               | 0.00184 U               | 0.00595 U               |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)                   | 0.0014 U                | 0.00125 U               | 0.0014 U                | 0.000614 U              | 0.00159 U               | 0.00127 U               | 0.00159 U               | 0.000625 U              | 0.000543 U              | 0.00175 U               |
| 3-Perfluoropropyl propanoic acid (3:3FTCA)                         | 0.00196 U               | 0.00175 U               | 0.00196 U               | 0.00086 U               | 0.00223 U               | 0.00178 U               | 0.00223 U               | 0.000875 U              | 0.00076 U               | 0.00245 U               |
| 2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)                       | 0.0274 U                | 0.0244 U                | 0.0274 U                | 0.012 U                 | 0.0311 U                | 0.0249 U                | 0.0311 U                | 0.0122 U                | 0.0106 U                | 0.0342 U                |
| 3-Perfluoroheptyl propanoic acid (7:3FTCA)                         | 0.0263 J                | 0.0132 U                | 0.0148 U                | 0.00649 U               | 0.0168 U                | 0.0135 U                | 0.0168 U                | 0.00661 U               | 0.00574 U               | 0.0185 U                |

Notes  
There are no applicable screening levels for ecological tissue.  
See Table 1-1 for notes.

Table 4-11  
Ecological Risk Assessment Tissue PFAS Analytical Results

PFAS CERCLA Remedial Investigation Site Characterization Summary Report  
Former Loring Air Force Base  
Limestone, ME

| Category:                                                          | Aquatic                 |                         |                         |                         |                         |                         |                         |                         |                         |                         |
|--------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Drainage/Area:                                                     | Greenlaw Brook Drainage |                         |                         |                         |                         |                         |                         |                         |                         |                         |
| Location ID:                                                       | E-A-BIOP_INV01          | E-A-BIOP_INV02          | E-A-BIOP_PLT01          | E-A-BIOP_PLT02          | E-A-BIOQ_FSH01          | E-A-BIOQ_INV01          | E-A-BIOQ_PLT01          | E-A-BIOR_FSH01          | E-A-BIOR_INV01          | E-A-BIOR_INV02          |
| Sample ID:                                                         | E-A-BIOP_INV01_20240814 | E-A-BIOP_INV02_20240815 | E-A-BIOP_PLT01_20240813 | E-A-BIOP_PLT02_20240813 | E-A-BIOQ_FSH01_20240815 | E-A-BIOQ_INV01_20240814 | E-A-BIOQ_PLT01_20240814 | E-A-BIOR_FSH01_20240814 | E-A-BIOR_INV01_20240815 | E-A-BIOR_INV02_20240817 |
| Sample Date:                                                       | 8/14/2024               | 8/15/2024               | 8/13/2024               | 8/13/2024               | 8/15/2024               | 8/14/2024               | 8/14/2024               | 8/14/2024               | 8/15/2024               | 8/17/2024               |
| Sample Depth (ft bgs):                                             | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               |
| Sample Type:                                                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       |
| Latitude:                                                          | 46.929598               | 46.92876394             | 46.9296271              | 46.9296271              | 46.92670079             | 46.92652014             | 46.92650032             | 46.92592                | 46.92577531             | 46.92593                |
| Longitude:                                                         | -67.923051              | -67.92145226            | -67.92307381            | -67.92307381            | -67.92395346            | -67.92391806            | -67.92377883            | -67.9235                | -67.92347159            | -67.92329               |
| Analyte                                                            | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   |
| Perfluorobutanoic acid (PFBA)                                      | 0.00175 U               | 0.00207 U               | 0.000848 U              | 0.000889 U              | 0.00243 U               | 0.00196 U               | 0.00219 J               | 0.00243 U               | 0.00193 U               | 0.00181 U               |
| Perfluoropentanoic acid (PFPeA)                                    | 0.00169 U               | 0.002 U                 | 0.0048                  | 0.000857 U              | 0.00235 U               | 0.00189 U               | 0.00133 U               | 0.00235 U               | 0.00186 U               | 0.00174 U               |
| Perfluorohexanoic acid (PFHxA)                                     | 0.00116 U               | 0.00137 U               | 0.000561 U              | 0.000587 U              | 0.00161 U               | 0.0013 U                | 0.000914 U              | 0.00161 U               | 0.00128 U               | 0.00119 U               |
| Perfluoroheptanoic acid (PFHpA)                                    | 0.00109 U               | 0.0013 U                | 0.00053 U               | 0.000556 U              | 0.00152 U               | 0.00123 U               | 0.000864 U              | 0.00152 U               | 0.00121 U               | 0.00114 J               |
| Perfluorooctanoic acid (PFOA)                                      | 0.00315                 | 0.00283 J               | 0.000379 U              | 0.000397 U              | 0.00109 U               | 0.00296                 | 0.000617 U              | 0.00109 U               | 0.00202                 | 0.0027                  |
| Perfluorononanoic acid (PFNA)                                      | 0.00075 J               | 0.00133 U               | 0.000545 U              | 0.000341 J              | 0.00199                 | 0.000684 J              | 0.000611 J              | 0.00187                 | 0.00124 U               | 0.00116 U               |
| Perfluorodecanoic acid (PFDA)                                      | 0.00122 U               | 0.00144 U               | 0.000591 U              | 0.000619 U              | 0.00529                 | 0.00137 U               | 0.000963 U              | 0.00615                 | 0.00134 U               | 0.00126 U               |
| Perfluoroundecanoic acid (PFUnA)                                   | 0.00173                 | 0.00126 J               | 0.000455 U              | 0.000476 U              | 0.0103                  | 0.000863 J              | 0.000741 U              | 0.00982                 | 0.00099 J               | 0.00131                 |
| Perfluorododecanoic acid (PFDoA)                                   | 0.000878 J              | 0.000724 J              | 0.000364 U              | 0.000381 U              | 0.0037                  | 0.000479 J              | 0.000593 U              | 0.0041                  | 0.000434 J              | 0.000668 J              |
| Perfluorotridecanoic acid (PFTrDA)                                 | 0.000955 J              | 0.00106 J               | 0.000591 U              | 0.000619 U              | 0.00847                 | 0.000863 J              | 0.000963 U              | 0.00774                 | 0.00085 J               | 0.00146                 |
| Perfluorotetradecanoic acid (PFTeDA)                               | 0.000969 U              | 0.00115 U               | 0.00047 U               | 0.000492 U              | 0.00112 J               | 0.00109 U               | 0.000765 U              | 0.00176                 | 0.00107 U               | 0.001 U                 |
| Perfluorobutanesulfonic acid (PFBS)                                | 0.00106 U               | 0.00126 U               | 0.000515 U              | 0.00054 U               | 0.00148 U               | 0.00119 U               | 0.00084 U               | 0.00148 U               | 0.00117 U               | 0.0011 U                |
| Perfluoropentanesulfonic acid (PFPeS)                              | 0.000625 U              | 0.000741 U              | 0.000303 U              | 0.000317 U              | 0.00087 U               | 0.000702 U              | 0.000494 U              | 0.00087 U               | 0.00069 U               | 0.000645 U              |
| Perfluorohexanesulfonic acid (PFHxS)                               | 0.00602                 | 0.00321                 | 0.000441 J              | 0.000548 J              | 0.00336                 | 0.00243                 | 0.000659 J              | 0.0036                  | 0.00192                 | 0.00233 J-              |
| Perfluoroheptanesulfonic acid (PFHpS)                              | 0.00109 U               | 0.0013 U                | 0.00053 U               | 0.000556 U              | 0.00121 J               | 0.00123 U               | 0.000864 U              | 0.00174                 | 0.00121 U               | 0.00113 U               |
| Perfluorooctanesulfonic acid (PFOS)                                | 0.0568                  | 0.0294                  | 0.00161                 | 0.0085                  | 1.72                    | 0.0262                  | 0.0347                  | 1.57                    | 0.0235                  | 0.031                   |
| Perfluorononanesulfonic acid (PFNS)                                | 0.00123 U               | 0.00146 U               | 0.000598 U              | 0.000627 U              | 0.00954                 | 0.00139 U               | 0.000975 U              | 0.0112                  | 0.00136 U               | 0.00127 U               |
| Perfluorodecanesulfonic acid (PFDS)                                | 0.00103 U               | 0.00122 U               | 0.0005 U                | 0.000524 U              | 0.00179                 | 0.00116 U               | 0.000815 U              | 0.00457                 | 0.00114 U               | 0.00106 U               |
| Perfluorododecanesulfonic acid (PFDoS)                             | 0.000594 U              | 0.000704 U              | 0.000288 U              | 0.000302 U              | 0.000826 U              | 0.000667 U              | 0.000469 U              | 0.000837 J              | 0.000655 U              | 0.000613 UJ             |
| 1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)               | 0.00413 U               | 0.00489 U               | 0.002 U                 | 0.0021 U                | 0.00574 U               | 0.00463 U               | 0.00326 U               | 0.00574 U               | 0.00455 U               | 0.00426 U               |
| 1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)               | 0.00253 U               | 0.003 U                 | 0.00123 U               | 0.00129 U               | 0.00352 U               | 0.00284 U               | 0.002 U                 | 0.00352 U               | 0.00279 U               | 0.00261 U               |
| 1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)               | 0.0025 U                | 0.00296 U               | 0.00121 U               | 0.00127 U               | 0.00348 U               | 0.00281 U               | 0.00198 U               | 0.00367 J               | 0.00276 U               | 0.00258 U               |
| Perfluorooctane sulfonamide (PFOSA)                                | 0.00189 J               | 0.000839 J              | 0.000242 U              | 0.000254 U              | 0.00167 J-              | 0.000561 U              | 0.000395 U              | 0.00174 J               | 0.000578 J              | 0.000516 U              |
| N-methyl perfluorooctanesulfonamide (NMeFOSA)                      | 0.000313 U              | 0.00037 U               | 0.000152 U              | 0.000159 U              | 0.000435 U              | 0.000351 U              | 0.000247 U              | 0.000435 U              | 0.000345 U              | 0.000323 U              |
| N-ethyl perfluorooctanesulfonamide (NEtFOSA)                       | 0.00106 U               | 0.00126 U               | 0.000515 U              | 0.00054 U               | 0.00148 U               | 0.00119 U               | 0.00084 U               | 0.00148 U               | 0.00117 U               | 0.0011 U                |
| N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)          | 0.00116 U               | 0.00137 U               | 0.000561 U              | 0.000587 U              | 0.00161 U               | 0.0013 U                | 0.000914 U              | 0.00161 U               | 0.00128 U               | 0.00119 U               |
| N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)           | 0.00119 U               | 0.00141 U               | 0.000576 U              | 0.000603 U              | 0.00165 U               | 0.00133 U               | 0.000938 U              | 0.00165 U               | 0.00131 U               | 0.00123 U               |
| N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)               | 0.00597 U               | 0.00707 U               | 0.00289 U               | 0.00303 U               | 0.0083 U                | 0.0067 U                | 0.00472 U               | 0.0083 U                | 0.00659 U               | 0.00616 U               |
| N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)                | 0.00625 U               | 0.00741 U               | 0.00303 U               | 0.00317 U               | 0.0087 U                | 0.00702 U               | 0.00494 U               | 0.0087 U                | 0.0069 U                | 0.00645 U               |
| Hexafluoropropylene oxide dimer acid (HFPO-DA)                     | 0.00363 U               | 0.0043 U                | 0.00176 U               | 0.00184 U               | 0.00504 U               | 0.00407 U               | 0.00286 U               | 0.00504 U               | 0.004 U                 | 0.00374 U               |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA)                        | 0.00281 U               | 0.00333 U               | 0.00136 U               | 0.00143 U               | 0.00391 U               | 0.00316 U               | 0.00222 U               | 0.00391 U               | 0.0031 U                | 0.0029 U                |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                          | 0.00216 U               | 0.00256 U               | 0.00105 U               | 0.0011 U                | 0.003 U                 | 0.00242 U               | 0.0017 U                | 0.003 U                 | 0.00238 U               | 0.00223 U               |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                           | 0.00169 U               | 0.002 U                 | 0.000818 U              | 0.000857 U              | 0.00235 U               | 0.00189 U               | 0.00133 U               | 0.00235 U               | 0.00186 U               | 0.00174 U               |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)                         | 0.000656 U              | 0.000778 U              | 0.000318 U              | 0.000333 U              | 0.000913 U              | 0.000737 U              | 0.000519 U              | 0.000913 U              | 0.000724 U              | 0.000677 U              |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)    | 0.00391 U               | 0.00463 U               | 0.00189 U               | 0.00198 U               | 0.00543 U               | 0.00439 U               | 0.00309 U               | 0.00543 U               | 0.00431 U               | 0.00403 U               |
| 11-Chlororeicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) | 0.00372 U               | 0.00441 U               | 0.0018 U                | 0.00189 U               | 0.00517 U               | 0.00418 U               | 0.00294 U               | 0.00517 U               | 0.0041 U                | 0.00384 U               |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)                   | 0.00109 U               | 0.0013 U                | 0.00053 U               | 0.000556 U              | 0.00152 U               | 0.00123 U               | 0.000864 U              | 0.00152 U               | 0.00121 U               | 0.00113 U               |
| 3-Perfluoropropyl propanoic acid (3:3FTCA)                         | 0.00153 U               | 0.00181 U               | 0.000742 U              | 0.000778 U              | 0.00213 U               | 0.00172 U               | 0.00121 U               | 0.00213 U               | 0.00169 U               | 0.00158 U               |
| 2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)                       | 0.0214 U                | 0.0253 U                | 0.0104 U                | 0.0109 U                | 0.0297 U                | 0.024 U                 | 0.0169 U                | 0.0297 U                | 0.0236 U                | 0.0221 U                |
| 3-Perfluoroheptyl propanoic acid (7:3FTCA)                         | 0.0116 U                | 0.0137 U                | 0.00561 U               | 0.00587 U               | 0.0161 U                | 0.013 U                 | 0.00914 U               | 0.019 J                 | 0.0128 U                | 0.0119 U                |

Notes  
There are no applicable screening levels for ecological tissue.  
See Table 1-1 for notes.

Table 4-11  
Ecological Risk Assessment Tissue PFAS Analytical Results

PFAS CERCLA Remedial Investigation Site Characterization Summary Report  
Former Loring Air Force Base  
Limestone, ME

| Category:                                                          | Aquatic                 |                         |                         |                         |                         |                         |                         |                         |                         |                         |
|--------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Drainage/Area:                                                     | Greenlaw Brook Drainage |                         |                         |                         |                         |                         |                         |                         |                         |                         |
| Location ID:                                                       | E-A-BIOR_PLT01          | E-A-BIOR_PLT02          | E-A-BIOS_FSH01          | E-A-BIOS_INV01          | E-A-BIOS_PLT01          | E-A-BIOT_FSH01          | E-A-BIOT_INV01          | E-A-BIOT_PLT01          | E-A-BIOU_FSH01          | E-A-BIOU_INV01          |
| Sample ID:                                                         | E-A-BIOR_PLT01_20240814 | E-A-BIOR_PLT02_20240814 | E-A-BIOS_FSH01_20240817 | E-A-BIOS_INV01_20240817 | E-A-BIOS_PLT01_20240817 | E-A-BIOT_FSH01_20240813 | E-A-BIOT_INV01_20240816 | E-A-BIOT_PLT01_20240814 | E-A-BIOU_FSH01_20240814 | E-A-BIOU_INV01_20240814 |
| Sample Date:                                                       | 8/14/2024               | 8/14/2024               | 8/17/2024               | 8/17/2024               | 8/17/2024               | 8/13/2024               | 8/16/2024               | 8/14/2024               | 8/14/2024               | 8/14/2024               |
| Sample Depth (ft bgs):                                             | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               |
| Sample Type:                                                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       |
| Latitude:                                                          | 46.92569557             | 46.92568935             | 46.92872002             | 46.92874467             | 46.92874467             | 46.92660715             | 46.92656572             | 46.92664842             | 46.92633                | 46.92632                |
| Longitude:                                                         | -67.92347087            | -67.92345279            | -67.87760326            | -67.87759748            | -67.87753049            | -67.88600814            | -67.88584121            | -67.88571949            | -67.89529               | -67.89527               |
| Analyte                                                            | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   |
| Perfluorobutanoic acid (PFBA)                                      | 0.000305 J              | 0.000516 U              | 0.00311 U               | 0.00361 U               | 0.00115 J               | 0.00233 U               | 0.00273 U               | 0.000734 J              | 0.0022 U                | 0.00193 U               |
| Perfluoropentanoic acid (PFPeA)                                    | 0.000584 U              | 0.000498 U              | 0.003 U                 | 0.00348 U               | 0.000563 UJ             | 0.00225 U               | 0.00263 U               | 0.000505 U              | 0.00212 U               | 0.00186 U               |
| Perfluorohexanoic acid (PFHxA)                                     | 0.0004 U                | 0.000341 U              | 0.00206 U               | 0.00239 U               | 0.000385 UJ             | 0.00154 U               | 0.0018 U                | 0.000346 U              | 0.00145 U               | 0.00128 U               |
| Perfluoroheptanoic acid (PFHpA)                                    | 0.000378 U              | 0.000323 U              | 0.00194 U               | 0.00226 U               | 0.000365 UJ             | 0.00146 U               | 0.00171 U               | 0.000327 U              | 0.00137 U               | 0.00154                 |
| Perfluorooctanoic acid (PFOA)                                      | 0.00027 U               | 0.00023 U               | 0.00139 U               | 0.00161 U               | 0.00026 U               | 0.00104 U               | 0.00122 U               | 0.000234 U              | 0.00098 U               | 0.00343                 |
| Perfluorononanoic acid (PFNA)                                      | 0.000389 U              | 0.000332 U              | 0.002 U                 | 0.00132 J               | 0.000375 U              | 0.00127 J               | 0.0012 J                | 0.000336 U              | 0.00141 U               | 0.000864 J              |
| Perfluorodecanoic acid (PFDA)                                      | 0.000422 U              | 0.000359 U              | 0.00217 U               | 0.00252 U               | 0.000406 U              | 0.00417                 | 0.00107 J               | 0.000364 U              | 0.00269                 | 0.000929 J              |
| Perfluoroundecanoic acid (PFUnA)                                   | 0.000324 U              | 0.000276 U              | 0.00167 U               | 0.00194 U               | 0.000313 U              | 0.00644                 | 0.00113 J               | 0.00028 U               | 0.00419                 | 0.00214                 |
| Perfluorododecanoic acid (PFDoA)                                   | 0.000259 U              | 0.000221 UJ             | 0.00133 U               | 0.00155 U               | 0.00025 U               | 0.0022                  | 0.00117 U               | 0.000224 U              | 0.00238                 | 0.002                   |
| Perfluorotridecanoic acid (PFTrDA)                                 | 0.000422 U              | 0.000359 UJ             | 0.00217 U               | 0.00252 U               | 0.000406 U              | 0.00568 J+              | 0.0019 U                | 0.000364 U              | 0.00408                 | 0.00429                 |
| Perfluorotetradecanoic acid (PFTeDA)                               | 0.000335 U              | 0.000286 U              | 0.00172 U               | 0.002 U                 | 0.000323 U              | 0.00129 U               | 0.00151 U               | 0.00029 U               | 0.00122 U               | 0.00152                 |
| Perfluorobutanesulfonic acid (PFBS)                                | 0.000368 U              | 0.000313 U              | 0.00189 U               | 0.00219 U               | 0.000354 U              | 0.00142 U               | 0.00166 U               | 0.000318 U              | 0.00133 U               | 0.00117 U               |
| Perfluoropentanesulfonic acid (PFPeS)                              | 0.000216 U              | 0.000184 U              | 0.00111 U               | 0.00129 U               | 0.000208 U              | 0.000833 U              | 0.000976 U              | 0.000187 U              | 0.000784 U              | 0.00136 J               |
| Perfluorohexanesulfonic acid (PFHxS)                               | 0.000449                | 0.00015 J               | 0.00274                 | 0.00518                 | 0.000313 U              | 0.00293                 | 0.00269                 | 0.000268 J              | 0.0044                  | 0.0176                  |
| Perfluoroheptanesulfonic acid (PFHpS)                              | 0.000378 U              | 0.000323 U              | 0.00194 U               | 0.00226 U               | 0.000365 U              | 0.00146 U               | 0.00171 U               | 0.000327 U              | 0.00137 U               | 0.00121 U               |
| Perfluorooctanesulfonic acid (PFOS)                                | 0.00943                 | 0.00147                 | 0.0288                  | 0.037                   | 0.000334 J              | 0.451 J                 | 0.0492                  | 0.000374                | 0.505                   | 0.0342                  |
| Perfluorononanesulfonic acid (PFNS)                                | 0.000427 U              | 0.000364 U              | 0.00219 U               | 0.00255 U               | 0.000411 U              | 0.000833 J              | 0.00193 U               | 0.000369 U              | 0.00343                 | 0.00136 U               |
| Perfluorodecanesulfonic acid (PFDS)                                | 0.000357 U              | 0.000304 U              | 0.00126 J               | 0.00213 U               | 0.000344 U              | 0.00134 J               | 0.00161 U               | 0.000308 U              | 0.00261                 | 0.000574 J              |
| Perfluorododecanesulfonic acid (PFDoS)                             | 0.000205 U              | 0.000175 U              | 0.00106 U               | 0.00123 U               | 0.000198 U              | 0.000754 J-             | 0.000927 U              | 0.000178 U              | 0.00102 J               | 0.00119                 |
| 1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)               | 0.00143 U               | 0.00122 U               | 0.00733 U               | 0.00852 U               | 0.00138 U               | 0.0055 U                | 0.00644 U               | 0.00123 U               | 0.00518 U               | 0.00455 U               |
| 1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)               | 0.000876 U              | 0.000747 U              | 0.0045 U                | 0.00523 U               | 0.000844 U              | 0.00338 UJ              | 0.00395 U               | 0.000757 U              | 0.00318 U               | 0.00279 U               |
| 1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)               | 0.000865 U              | 0.000737 U              | 0.00444 U               | 0.00516 U               | 0.00333 U               | 0.00333 U               | 0.0039 U                | 0.000748 U              | 0.00314 U               | 0.00276 U               |
| Perfluorooctane sulfonamide (PFOSA)                                | 0.000173 U              | 0.000147 U              | 0.000889 U              | 0.00103 U               | 0.000167 U              | 0.000667 U              | 0.00078 U               | 0.00015 U               | 0.00397                 | 0.00367                 |
| N-methyl perfluorooctanesulfonamide (NMeFOSA)                      | 0.000108 U              | 0.000092 U              | 0.000556 U              | 0.000645 U              | 0.000104 U              | 0.000417 U              | 0.000488 U              | 0.000093 U              | 0.000392 U              | 0.000345 U              |
| N-ethyl perfluorooctanesulfonamide (NEtFOSA)                       | 0.000368 U              | 0.000313 U              | 0.00189 U               | 0.00219 U               | 0.000354 U              | 0.00142 U               | 0.00166 U               | 0.000318 U              | 0.00133 U               | 0.00117 U               |
| N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)          | 0.0004 U                | 0.000341 U              | 0.00206 U               | 0.00239 U               | 0.000385 U              | 0.00154 U               | 0.0018 U                | 0.000346 U              | 0.00145 U               | 0.00128 U               |
| N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)           | 0.000411 U              | 0.00035 U               | 0.00211 U               | 0.00245 U               | 0.000396 U              | 0.00158 U               | 0.00185 U               | 0.000355 U              | 0.00149 U               | 0.00131 U               |
| N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)               | 0.00206 U               | 0.00176 U               | 0.0106 U                | 0.0123 U                | 0.00199 U               | 0.00796 U               | 0.00932 U               | 0.00179 U               | 0.00749 U               | 0.00659 U               |
| N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)                | 0.00216 U               | 0.00184 U               | 0.0111 U                | 0.0129 U                | 0.00208 U               | 0.00833 U               | 0.00976 U               | 0.00187 U               | 0.00784 U               | 0.0069 U                |
| Hexafluoropropylene oxide dimer acid (HFPO-DA)                     | 0.00125 U               | 0.00107 U               | 0.00644 U               | 0.00748 U               | 0.00121 UJ              | 0.00483 U               | 0.00566 U               | 0.00108 U               | 0.00455 U               | 0.004 U                 |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA)                        | 0.000973 U              | 0.000829 U              | 0.005 U                 | 0.00581 U               | 0.000938 UJ             | 0.00375 UJ              | 0.00439 U               | 0.000841 U              | 0.00353 U               | 0.0031 U                |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                          | 0.000746 U              | 0.000636 U              | 0.00383 U               | 0.00445 U               | 0.000719 UJ             | 0.00288 U               | 0.00337 U               | 0.000645 U              | 0.00271 U               | 0.00238 U               |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                           | 0.000584 U              | 0.000498 U              | 0.003 U                 | 0.00348 U               | 0.000563 UJ             | 0.00225 U               | 0.00263 U               | 0.000505 UJ             | 0.00212 U               | 0.00186 U               |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)                         | 0.000227 U              | 0.000194 U              | 0.00117 U               | 0.00135 U               | 0.000219 UJ             | 0.000875 U              | 0.00102 U               | 0.000196 U              | 0.000824 U              | 0.000724 U              |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)    | 0.00135 U               | 0.00115 U               | 0.00694 U               | 0.00806 U               | 0.0013 UJ               | 0.00521 U               | 0.0061 U                | 0.00117 U               | 0.0049 U                | 0.00431 U               |
| 11-Chlororeicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) | 0.00129 U               | 0.0011 U                | 0.00661 U               | 0.00768 U               | 0.00124 UJ              | 0.00496 U               | 0.0058 U                | 0.00111 U               | 0.00467 U               | 0.0041 U                |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)                   | 0.000378 U              | 0.000323 U              | 0.00194 U               | 0.00226 U               | 0.000365 UJ             | 0.00146 U               | 0.00171 U               | 0.000327 U              | 0.00137 U               | 0.00121 U               |
| 3-Perfluoropropyl propanoic acid (3:3FTCA)                         | 0.00053 U               | 0.000452 U              | 0.00272 U               | 0.00316 U               | 0.00051 UJ              | 0.00204 U               | 0.00239 U               | 0.000458 U              | 0.00192 U               | 0.00169 U               |
| 2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)                       | 0.00739 U               | 0.0063 U                | 0.038 U                 | 0.0441 U                | 0.00713 UJ              | 0.0285 U                | 0.0334 U                | 0.00639 U               | 0.0268 U                | 0.0236 U                |
| 3-Perfluoroheptyl propanoic acid (7:3FTCA)                         | 0.004 U                 | 0.00341 U               | 0.0206 U                | 0.0239 U                | 0.00385 UJ              | 0.0154 U                | 0.018 U                 | 0.00346 U               | 0.0145 U                | 0.0128 U                |

Notes  
There are no applicable screening levels for ecological tissue.  
See Table 1-1 for notes.

Table 4-11  
Ecological Risk Assessment Tissue PFAS Analytical Results

PFAS CERCLA Remedial Investigation Site Characterization Summary Report  
Former Loring Air Force Base  
Limestone, ME

| Category:                                                          | Aquatic                 |                         |                         |                         |                         |                         |                         |                         |                         |                         |
|--------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Drainage/Area:                                                     | Greenlaw Brook Drainage |                         |                         |                         |                         |                         |                         |                         |                         |                         |
| Location ID:                                                       | E-A-BIOU_PLT01          | E-A-BIOV_FSH01          | E-A-BIOV_INV01          | E-A-BIOV_PLT01          | E-A-BIOV_FSH01          | E-A-BIOV_INV01          | E-A-BIOV_INV02          | E-A-BIOV_PLT01          | E-A-BIOX_FSH01          | E-A-BIOX_FSH02          |
| Sample ID:                                                         | E-A-BIOU_PLT01_20240814 | E-A-BIOV_FSH01_20240815 | E-A-BIOV_INV01_20240814 | E-A-BIOV_PLT01_20240815 | E-A-BIOV_FSH01_20240814 | E-A-BIOV_INV01_20240815 | E-A-BIOV_INV02_20240815 | E-A-BIOV_PLT01_20240814 | E-A-BIOX_FSH01_20240813 | E-A-BIOX_FSH02_20240813 |
| Sample Date:                                                       | 8/14/2024               | 8/15/2024               | 8/14/2024               | 8/15/2024               | 8/14/2024               | 8/15/2024               | 8/15/2024               | 8/14/2024               | 8/13/2024               | 8/13/2024               |
| Sample Depth (ft bgs):                                             | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               |
| Sample Type:                                                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       |
| Latitude:                                                          | 46.92633318             | 46.93667                | 46.93694561             | 46.93642269             | 46.92864417             | 46.92861718             | 46.92858592             | 46.92860643             | 46.92400595             | 46.92399487             |
| Longitude:                                                         | -67.8952506             | -67.89657               | -67.89655873            | -67.89659632            | -67.89911793            | -67.89925216            | -67.89914421            | -67.89911346            | -67.90237337            | -67.90242333            |
| Analyte                                                            | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   |
| Perfluorobutanoic acid (PFBA)                                      | 0.000842 U              | 0.00303 U               | 0.00306 J               | 0.00121 J               | 0.00224 U               | 0.002 U                 | 0.00207 U               | 0.00159 J               | 0.00229 U               | 0.00211 U               |
| Perfluoropentanoic acid (PFPeA)                                    | 0.00291                 | 0.00292 U               | 0.00535 J               | 0.00085 U               | 0.00216 U               | 0.00104 J               | 0.00085 U               | 0.0011 J                | 0.00657                 | 0.0022 U                |
| Perfluorohexanoic acid (PFHxA)                                     | 0.000556 U              | 0.002 U                 | 0.00148 UJ              | 0.000583 U              | 0.00148 U               | 0.00106 J               | 0.00102 J               | 0.000892 U              | 0.00151 U               | 0.0014 U                |
| Perfluoroheptanoic acid (PFHpA)                                    | 0.000526 U              | 0.00189 U               | 0.00766 J               | 0.000551 U              | 0.0014 U                | 0.00208                 | 0.00181                 | 0.000843 U              | 0.00143 U               | 0.00132 U               |
| Perfluorooctanoic acid (PFOA)                                      | 0.000376 U              | 0.00135 U               | 0.018                   | 0.00142                 | 0.00182                 | 0.0101                  | 0.00621                 | 0.0027                  | 0.00102 U               | 0.000943 U              |
| Perfluorononanoic acid (PFNA)                                      | 0.000541 U              | 0.00195 U               | 0.00404                 | 0.000706                | 0.00333                 | 0.00187                 | 0.00107 J               | 0.00182                 | 0.00179                 | 0.00215                 |
| Perfluorodecanoic acid (PFDA)                                      | 0.000586 U              | 0.00139 J               | 0.00315                 | 0.000614 U              | 0.00641                 | 0.00078 J               | 0.000826 J              | 0.000725 J              | 0.00561                 | 0.00657                 |
| Perfluoroundecanoic acid (PFUnA)                                   | 0.000451 U              | 0.00214 J               | 0.0105                  | 0.000472 U              | 0.00804                 | 0.00221                 | 0.00177                 | 0.000723 U              | 0.0085                  | 0.00968                 |
| Perfluorododecanoic acid (PFDoA)                                   | 0.000361 U              | 0.00189 J               | 0.00716                 | 0.000378 U              | 0.00289                 | 0.00116 J               | 0.0009 J                | 0.000578 U              | 0.00482                 | 0.00435                 |
| Perfluorotridecanoic acid (PFTrDA)                                 | 0.000586 U              | 0.00154 J               | 0.00893                 | 0.000614 U              | 0.00476                 | 0.0023                  | 0.00138 J               | 0.00094 U               | 0.00819 J+              | 0.00508                 |
| Perfluorotetradecanoic acid (PFTeDA)                               | 0.000466 U              | 0.00168 U               | 0.00299                 | 0.000488 U              | 0.00124 U               | 0.000641 J              | 0.00115 U               | 0.000747 U              | 0.00227                 | 0.00116 J               |
| Perfluorobutanesulfonic acid (PFBS)                                | 0.000511 U              | 0.00184 U               | 0.00136 U               | 0.000535 U              | 0.00136 U               | 0.00121 U               | 0.000535 U              | 0.000819 U              | 0.00139 U               | 0.00128 U               |
| Perfluoropentanesulfonic acid (PFPeS)                              | 0.000301 U              | 0.00108 U               | 0.0008 U                | 0.000315 U              | 0.0008 U                | 0.0011 J                | 0.00103 J               | 0.000482 U              | 0.000998 J-             | 0.000755 U              |
| Perfluorohexanesulfonic acid (PFHxS)                               | 0.000451 U              | 0.011                   | 0.0653                  | 0.00217                 | 0.0225                  | 0.0179                  | 0.00761                 | 0.00273                 | 0.0113                  | 0.00634                 |
| Perfluoroheptanesulfonic acid (PFHpS)                              | 0.000526 U              | 0.00119 J               | 0.00126 J               | 0.000551 U              | 0.00316                 | 0.00125 U               | 0.000737 J              | 0.000843 U              | 0.00211                 | 0.00203                 |
| Perfluorooctanesulfonic acid (PFOS)                                | 0.000586 U              | 0.271                   | 0.161                   | 0.03                    | 1.24                    | 0.0608                  | 0.055                   | 0.0691 J                | 1.31 J                  | 1.34                    |
| Perfluorononanesulfonic acid (PFNS)                                | 0.000594 U              | 0.00171 J               | 0.00118 J               | 0.000622 U              | 0.0065                  | 0.00141 U               | 0.00146 U               | 0.000952 U              | 0.00753                 | 0.00734                 |
| Perfluorodecanesulfonic acid (PFDS)                                | 0.000496 U              | 0.00323                 | 0.00301                 | 0.00052 U               | 0.00699                 | 0.00118 U               | 0.00122 U               | 0.000795 U              | 0.00716                 | 0.00677                 |
| Perfluorododecanesulfonic acid (PFDoS)                             | 0.000286 U              | 0.000657 J              | 0.00587                 | 0.000299 U              | 0.00115 J               | 0.000575 J              | 0.000704 U              | 0.000458 U              | 0.00313 J-              | 0.00159                 |
| 1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)               | 0.00198 U               | 0.00714 U               | 0.00528 U               | 0.00208 U               | 0.00528 U               | 0.00471 U               | 0.00489 U               | 0.00318 U               | 0.00539 U               | 0.00498 U               |
| 1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)               | 0.00122 U               | 0.00438 U               | 0.00457 J               | 0.00128 U               | 0.00324 U               | 0.00289 U               | 0.003 U                 | 0.00195 U               | 0.00331 U               | 0.00306 U               |
| 1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)               | 0.0012 U                | 0.00691 J               | 0.00337 J               | 0.00156 J               | 0.00695                 | 0.00286 U               | 0.00296 U               | 0.00193 U               | 0.00548 J               | 0.00404 J               |
| Perfluorooctane sulfonamide (PFOSA)                                | 0.000241 U              | 0.0248                  | 0.0445                  | 0.000819                | 0.0229                  | 0.00867                 | 0.00882                 | 0.000386 U              | 0.0147                  | 0.0133                  |
| N-methyl perfluorooctanesulfonamide (NMeFOSA)                      | 0.00015 U               | 0.000541 U              | 0.0004 U                | 0.000157 U              | 0.0004 U                | 0.000357 U              | 0.00037 U               | 0.000241 U              | 0.000408 U              | 0.000377 U              |
| N-ethyl perfluorooctanesulfonamide (NEtFOSA)                       | 0.000511 U              | 0.00184 U               | 0.00136 U               | 0.000535 U              | 0.00136 U               | 0.00121 U               | 0.00126 U               | 0.000819 U              | 0.00139 U               | 0.00128 U               |
| N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)          | 0.000556 U              | 0.002 U                 | 0.00148 U               | 0.000583 U              | 0.00148 U               | 0.00132 U               | 0.00137 U               | 0.000892 U              | 0.00151 U               | 0.0014 U                |
| N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)           | 0.000571 U              | 0.00205 U               | 0.00152 U               | 0.000598 U              | 0.00152 U               | 0.00136 U               | 0.00141 U               | 0.000916 U              | 0.00155 U               | 0.00143 U               |
| N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)               | 0.00287 U               | 0.0103 U                | 0.00764 U               | 0.00301 U               | 0.00764 U               | 0.00682 U               | 0.00707 U               | 0.0046 U                | 0.0078 U                | 0.00721 U               |
| N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)                | 0.00301 U               | 0.0108 U                | 0.008 U                 | 0.00315 U               | 0.008 U                 | 0.00714 U               | 0.00741 U               | 0.00482 U               | 0.00816 U               | 0.00755 U               |
| Hexafluoropropylene oxide dimer acid (HFPO-DA)                     | 0.00174 U               | 0.00627 U               | 0.00464 UJ              | 0.00183 U               | 0.00464 U               | 0.00414 U               | 0.0043 U                | 0.0028 U                | 0.00473 U               | 0.00438 U               |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA)                        | 0.00135 U               | 0.00486 U               | 0.0036 UJ               | 0.00142 U               | 0.0036 U                | 0.00321 U               | 0.00333 U               | 0.00217 U               | 0.00367 UJ              | 0.0034 U                |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                          | 0.00104 U               | 0.00373 U               | 0.00276 UJ              | 0.00109 U               | 0.00276 U               | 0.00246 U               | 0.00256 U               | 0.00166 U               | 0.00282 U               | 0.0026 U                |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                           | 0.000812 U              | 0.00292 U               | 0.00216 UJ              | 0.00085 UJ              | 0.00216 U               | 0.00193 U               | 0.002 U                 | 0.0017 J                | 0.0022 U                | 0.00204 U               |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)                         | 0.000316 U              | 0.00114 U               | 0.00084 UJ              | 0.000331 U              | 0.00084 U               | 0.00075 U               | 0.000778 U              | 0.000506 U              | 0.000857 U              | 0.000792 U              |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)    | 0.00188 U               | 0.00676 U               | 0.005 UJ                | 0.00197 U               | 0.005 U                 | 0.00446 U               | 0.00463 U               | 0.00301 U               | 0.0051 U                | 0.00472 U               |
| 11-Chlororeicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) | 0.00179 U               | 0.00643 U               | 0.00476 UJ              | 0.00187 U               | 0.00476 U               | 0.00425 U               | 0.00441 U               | 0.00287 U               | 0.00486 U               | 0.00449 U               |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)                   | 0.000526 U              | 0.00189 U               | 0.0014 UJ               | 0.000551 U              | 0.0014 U                | 0.00125 U               | 0.0013 U                | 0.000843 U              | 0.00143 U               | 0.00132 U               |
| 3-Perfluoropropyl propanoic acid (3:3FTCA)                         | 0.000737 U              | 0.00265 U               | 0.00196 UJ              | 0.000772 U              | 0.00196 U               | 0.00175 U               | 0.00181 U               | 0.00118 U               | 0.002 U                 | 0.00185 U               |
| 2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)                       | 0.0103 U                | 0.037 U                 | 0.179 J                 | 0.0108 U                | 0.0274 U                | 0.0224 J                | 0.0261 J                | 0.0165 U                | 0.0279 U                | 0.0258 U                |
| 3-Perfluoroheptyl propanoic acid (7:3FTCA)                         | 0.00556 U               | 0.037 J                 | 0.0141 J                | 0.00583 U               | 0.0208 J                | 0.0132 U                | 0.0137 U                | 0.00892 U               | 0.0143 J                | 0.0151 J                |

Notes  
There are no applicable screening levels for ecological tissue.  
See Table 1-1 for notes.

Table 4-11  
Ecological Risk Assessment Tissue PFAS Analytical Results  
  
PFAS CERCLA Remedial Investigation Site Characterization Summary Report  
Former Loring Air Force Base  
Limestone, ME

| Category:                                                          | Aquatic                 |                         |                         |                         |                         |                         |                         |                         |                         |                         |
|--------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Drainage/Area:                                                     | Greenlaw Brook Drainage |                         |                         |                         |                         |                         |                         |                         |                         |                         |
| Location ID:                                                       | E-A-BIOX_INV01          | E-A-BIOX_INV02          | E-A-BIOX_PLT01          | E-A-BIOY_FSH01          | E-A-BIOY_INV01          | E-A-BIOY_PLT01          | E-A-BIOZ_FSH01          | E-A-BIOZ_INV01          | E-A-BIOZ_INV02          | E-A-BIOZ_PLT01          |
| Sample ID:                                                         | E-A-BIOX_INV01_20240813 | E-A-BIOX_INV02_20240813 | E-A-BIOX_PLT01_20240813 | E-A-BIOY_FSH01_20240813 | E-A-BIOY_INV01_20240813 | E-A-BIOY_PLT01_20240813 | E-A-BIOZ_FSH01_20240813 | E-A-BIOZ_INV01_20240813 | E-A-BIOZ_INV02_20240813 | E-A-BIOZ_PLT01_20240813 |
| Sample Date:                                                       | 8/13/2024               | 8/13/2024               | 8/13/2024               | 8/13/2024               | 8/13/2024               | 8/13/2024               | 8/13/2024               | 8/13/2024               | 8/13/2024               | 8/13/2024               |
| Sample Depth (ft bgs):                                             | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               |
| Sample Type:                                                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       |
| Latitude:                                                          | 46.92401639             | 46.9240214              | 46.92402684             | 46.92148                | 46.92148                | 46.92149118             | 46.91580581             | 46.91580281             | 46.91581937             | 46.91575                |
| Longitude:                                                         | -67.90245388            | -67.90240237            | -67.90247257            | -67.9169                | -67.9169                | -67.91698678            | -67.92734598            | -67.92740362            | -67.92744279            | -67.92743               |
| Analyte                                                            | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   |
| Perfluorobutanoic acid (PFBA)                                      | 0.000927 J              | 0.00255 U               | 0.00126 J               | 0.00224 U               | 0.00172 U               | 0.000875 U              | 0.00229 U               | 0.00204 U               | 0.00196 U               | 0.00256 J               |
| Perfluoropentanoic acid (PFPeA)                                    | 0.0018 U                | 0.00142 J               | 0.000551 U              | 0.00216 U               | 0.000975 J              | 0.0011 J                | 0.0022 U                | 0.00196 U               | 0.00143 J               | 0.00385                 |
| Perfluorohexanoic acid (PFHxA)                                     | 0.00131 J               | 0.00184                 | 0.000378 U              | 0.00148 U               | 0.00114 J               | 0.000578 U              | 0.00151 U               | 0.00135 U               | 0.0013 U                | 0.00121 U               |
| Perfluoroheptanoic acid (PFHpA)                                    | 0.00278                 | 0.0023                  | 0.000357 U              | 0.0014 U                | 0.00155                 | 0.000547 U              | 0.00143 U               | 0.00207                 | 0.00163                 | 0.00115 U               |
| Perfluorooctanoic acid (PFOA)                                      | 0.00717                 | 0.00924                 | 0.000255 U              | 0.001 U                 | 0.0061                  | 0.000954                | 0.00102 U               | 0.00514                 | 0.00471                 | 0.00183                 |
| Perfluorononanoic acid (PFNA)                                      | 0.000983 J              | 0.00122 J               | 0.000367 U              | 0.00154 J               | 0.0014                  | 0.000318 J              | 0.00155 J               | 0.000747 J              | 0.00114 J               | 0.00136                 |
| Perfluorodecanoic acid (PFDA)                                      | 0.000653 J              | 0.00177 U               | 0.000398 U              | 0.00433                 | 0.000834 J              | 0.000609 U              | 0.00508                 | 0.00142 U               | 0.00137 U               | 0.00128 U               |
| Perfluoroundecanoic acid (PFUnA)                                   | 0.00152                 | 0.00227                 | 0.000306 U              | 0.00585                 | 0.00198                 | 0.000469 U              | 0.00652                 | 0.00113 J               | 0.00111 J               | 0.000984 U              |
| Perfluorododecanoic acid (PFDoA)                                   | 0.00121 J               | 0.00151 J               | 0.000245 U              | 0.00225                 | 0.000903 J              | 0.000375 U              | 0.00295                 | 0.000735 J              | 0.000496 J              | 0.000787 U              |
| Perfluorotridecanoic acid (PFTrDA)                                 | 0.00287                 | 0.00266                 | 0.000398 U              | 0.0051                  | 0.0016                  | 0.000609 U              | 0.0063                  | 0.00168                 | 0.000742 J              | 0.00128 U               |
| Perfluorotetradecanoic acid (PFTeDA)                               | 0.000623 J              | 0.00141 U               | 0.000316 U              | 0.00112 J               | 0.000954 U              | 0.000484 U              | 0.00142 J               | 0.00113 U               | 0.00109 U               | 0.00102 U               |
| Perfluorobutanesulfonic acid (PFBS)                                | 0.000768 J              | 0.00155 U               | 0.000347 UJ             | 0.00136 U               | 0.00105 U               | 0.000531 U              | 0.00139 U               | 0.00124 U               | 0.00119 U               | 0.00111 U               |
| Perfluoropentanesulfonic acid (PFPeS)                              | 0.000772 J              | 0.00147 J               | 0.000204 U              | 0.0008 U                | 0.000615 U              | 0.000313 U              | 0.000816 U              | 0.000727 U              | 0.000702 U              | 0.000656 U              |
| Perfluorohexanesulfonic acid (PFHxS)                               | 0.0103                  | 0.0158                  | 0.000306 J              | 0.0101                  | 0.0103                  | 0.000293 J              | 0.00331                 | 0.00938                 | 0.00478                 | 0.00118 J               |
| Perfluoroheptanesulfonic acid (PFHpS)                              | 0.00117 U               | 0.000832 J              | 0.000357 U              | 0.00142 J               | 0.00108 U               | 0.000547 U              | 0.00137 J               | 0.00127 U               | 0.00123 U               | 0.00115 U               |
| Perfluorooctanesulfonic acid (PFOS)                                | 0.0414 J-               | 0.0531                  | 0.000682                | 0.981                   | 0.0464                  | 0.0108                  | 1.26                    | 0.032                   | 0.041                   | 0.0553                  |
| Perfluorononanesulfonic acid (PFNS)                                | 0.00132 U               | 0.0018 U                | 0.000403 U              | 0.00532                 | 0.00122 U               | 0.000617 U              | 0.0102                  | 0.00144 U               | 0.00139 U               | 0.0013 U                |
| Perfluorodecanesulfonic acid (PFDS)                                | 0.0011 U                | 0.0015 U                | 0.000337 U              | 0.00481                 | 0.00102 U               | 0.000516 U              | 0.00814                 | 0.0012 U                | 0.00116 U               | 0.00108 U               |
| Perfluorododecanesulfonic acid (PFDoS)                             | 0.000633 U              | 0.000864 U              | 0.000194 U              | 0.00147 J               | 0.000306 J              | 0.000297 U              | 0.0017                  | 0.000691 U              | 0.000667 U              | 0.000623 U              |
| 1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)               | 0.0044 U                | 0.006 U                 | 0.00135 U               | 0.00528 U               | 0.00406 U               | 0.00206 U               | 0.00539 U               | 0.0048 U                | 0.00463 U               | 0.00433 U               |
| 1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)               | 0.0027 U                | 0.00368 U               | 0.000827 U              | 0.00324 U               | 0.00249 U               | 0.00127 U               | 0.00331 U               | 0.00295 U               | 0.00284 U               | 0.00266 U               |
| 1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)               | 0.00267 U               | 0.00364 U               | 0.000816 U              | 0.00283 J               | 0.00246 U               | 0.00125 U               | 0.00174 J               | 0.00291 U               | 0.00281 U               | 0.00262 U               |
| Perfluorooctane sulfonamide (PFOSA)                                | 0.0099                  | 0.0103                  | 0.000084 J              | 0.0078                  | 0.00547                 | 0.00025 U               | 0.0042 J                | 0.00319 J               | 0.00449                 | 0.000525 U              |
| N-methyl perfluorooctanesulfonamide (NMeFOSA)                      | 0.000333 U              | 0.000455 U              | 0.000102 U              | 0.0004 U                | 0.000308 U              | 0.000156 U              | 0.000408 U              | 0.000364 U              | 0.000351 U              | 0.000328 U              |
| N-ethyl perfluorooctanesulfonamide (NEtFOSA)                       | 0.00113 U               | 0.00155 U               | 0.000347 U              | 0.00136 U               | 0.00105 U               | 0.000531 U              | 0.00139 U               | 0.00124 U               | 0.00119 U               | 0.00111 U               |
| N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)          | 0.00123 U               | 0.00168 U               | 0.000378 U              | 0.00148 U               | 0.00114 U               | 0.000578 U              | 0.00151 U               | 0.00135 U               | 0.0013 U                | 0.00121 U               |
| N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)           | 0.00127 U               | 0.00173 U               | 0.000388 U              | 0.00152 U               | 0.00117 U               | 0.000594 U              | 0.00155 U               | 0.00138 U               | 0.00133 U               | 0.00125 U               |
| N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)               | 0.00637 U               | 0.00868 U               | 0.00195 U               | 0.00764 U               | 0.00588 U               | 0.00298 U               | 0.0078 U                | 0.00695 U               | 0.0067 U                | 0.00626 U               |
| N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)                | 0.00667 U               | 0.00909 U               | 0.00204 U               | 0.008 U                 | 0.00615 U               | 0.00313 U               | 0.00816 U               | 0.00727 U               | 0.00702 U               | 0.00656 U               |
| Hexafluoropropylene oxide dimer acid (HFPO-DA)                     | 0.00387 U               | 0.00527 U               | 0.00118 U               | 0.00464 U               | 0.00357 U               | 0.00181 U               | 0.00473 U               | 0.00422 U               | 0.00407 U               | 0.0038 U                |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA)                        | 0.003 U                 | 0.00409 U               | 0.000918 U              | 0.0036 U                | 0.00277 U               | 0.00141 U               | 0.00367 U               | 0.00327 U               | 0.00316 U               | 0.00295 U               |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                          | 0.0023 U                | 0.00314 U               | 0.000704 U              | 0.00276 U               | 0.00212 U               | 0.00108 U               | 0.00282 U               | 0.00251 U               | 0.00242 U               | 0.00226 U               |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                           | 0.0018 U                | 0.00245 U               | 0.000551 UJ             | 0.00216 U               | 0.00166 U               | 0.000844 U              | 0.0022 U                | 0.00196 U               | 0.00189 U               | 0.00136 J               |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)                         | 0.0007 U                | 0.000955 U              | 0.000214 U              | 0.00084 U               | 0.000646 U              | 0.000328 U              | 0.000857 U              | 0.000764 U              | 0.000737 U              | 0.000689 U              |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)    | 0.00417 U               | 0.00568 U               | 0.00128 U               | 0.005 U                 | 0.00385 U               | 0.00195 U               | 0.0051 U                | 0.00455 U               | 0.00439 U               | 0.0041 U                |
| 11-Chlororeicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) | 0.00397 U               | 0.00541 U               | 0.00121 U               | 0.00476 U               | 0.00366 U               | 0.00186 U               | 0.00486 U               | 0.00433 U               | 0.00418 U               | 0.0039 U                |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)                   | 0.00117 U               | 0.00159 U               | 0.000357 U              | 0.0014 U                | 0.00108 U               | 0.000547 U              | 0.00143 U               | 0.00127 U               | 0.00123 U               | 0.00115 U               |
| 3-Perfluoropropyl propanoic acid (3:3FTCA)                         | 0.00163 U               | 0.00223 U               | 0.0005 U                | 0.00196 U               | 0.00151 U               | 0.000766 U              | 0.002 U                 | 0.00178 U               | 0.00172 U               | 0.00161 U               |
| 2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)                       | 0.0231 J+               | 0.0285 J                | 0.00698 U               | 0.0274 U                | 0.0154 J                | 0.0107 U                | 0.0279 U                | 0.0249 U                | 0.024 U                 | 0.0224 U                |
| 3-Perfluoroheptyl propanoic acid (7:3FTCA)                         | 0.0123 U                | 0.0168 U                | 0.00378 U               | 0.00899 J               | 0.0114 U                | 0.00578 U               | 0.0102 J                | 0.0135 U                | 0.013 U                 | 0.0121 U                |

Notes  
There are no applicable screening levels for ecological tissue.  
See Table 1-1 for notes.

Table 4-11  
Ecological Risk Assessment Tissue PFAS Analytical Results  
  
PFAS CERCLA Remedial Investigation Site Characterization Summary Report  
Former Loring Air Force Base  
Limestone, ME

| Category:                                                          | Aquatic                  |                          |                          |                          |                          |                          | Terrestrial             |                         |                         |                         |
|--------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Drainage/Area:                                                     | Reference location       |                          |                          |                          |                          |                          | BIOA                    |                         | BIOB                    |                         |
| Location ID:                                                       | E-A-BIOCS_FSH01          | E-A-BIOCS_INV01          | E-A-BIOCS_PLT01          | E-A-BIOPB_FSH01          | E-A-BIOPB_INV01          | E-A-BIOPB_PLT01          | E-T-BIOA_INV01          | E-T-BIOA_PLT01          | E-T-BIOB_INV01          | E-T-BIOB_PLT01          |
| Sample ID:                                                         | E-A-BIOCS_FSH01_20240819 | E-A-BIOCS_INV01_20240820 | E-A-BIOCS_PLT01_20240819 | E-A-BIOPB_FSH01_20240820 | E-A-BIOPB_INV01_20240820 | E-A-BIOPB_PLT01_20240819 | E-T-BIOA_INV01_20240910 | E-T-BIOA_PLT01_20240910 | E-T-BIOB_INV01_20240910 | E-T-BIOB_PLT01_20240819 |
| Sample Date:                                                       | 8/19/2024                | 8/20/2024                | 8/19/2024                | 8/20/2024                | 8/20/2024                | 8/19/2024                | 9/10/2024               | 9/10/2024               | 9/10/2024               | 8/19/2024               |
| Sample Depth (ft bgs):                                             | 0.00-0.00                | 0.00-0.00                | 0.00-0.00                | 0.00-0.00                | 0.00-0.00                | 0.00-0.00                | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               |
| Sample Type:                                                       | N                        | N                        | N                        | N                        | N                        | N                        | N                       | N                       | N                       | N                       |
| Latitude:                                                          | 46.90123836              | 46.90134868              | 46.90124756              | 46.82599383              | 46.82599383              | 46.82612484              | 46.96954728             | 46.96958785             | 46.96249608             | 46.96224653             |
| Longitude:                                                         | -68.10800804             | -68.1081797              | -68.10804763             | -68.00928015             | -68.00928015             | -68.00862903             | -67.89187915            | -67.89202817            | -67.89703087            | -67.89636037            |
| Analyte                                                            | mg/kg                    | mg/kg                    | mg/kg                    | mg/kg                    | mg/kg                    | mg/kg                    | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   |
| Perfluorobutanoic acid (PFBA)                                      | 0.00243 U                | 0.002 U                  | 0.000674 J               | 0.00229 U                | 0.002 U                  | 0.00123 U                | 0.00361 U               | 0.00111 J+              | 0.00235                 | 0.000613 J              |
| Perfluoropentanoic acid (PFPeA)                                    | 0.00235 U                | 0.00193 U                | 0.00286                  | 0.0022 U                 | 0.00193 U                | 0.00119 U                | 0.00348 U               | 0.0116 J+               | 0.000751 J              | 0.00135                 |
| Perfluorohexanoic acid (PFHxA)                                     | 0.00161 U                | 0.00132 U                | 0.000556 U               | 0.00151 U                | 0.00132 U                | 0.000813 U               | 0.00239 U               | 0.000281 UJ             | 0.000573 J              | 0.000247 U              |
| Perfluoroheptanoic acid (PFHpA)                                    | 0.00152 U                | 0.00125 U                | 0.000526 U               | 0.00143 U                | 0.00125 U                | 0.000769 U               | 0.00226 UJ              | 0.000266 UJ             | 0.000335 UJ             | 0.000234 UJ             |
| Perfluorooctanoic acid (PFOA)                                      | 0.00109 U                | 0.000566 J               | 0.000376 U               | 0.00102 U                | 0.00082 J                | 0.000549 U               | 0.00161 U               | 0.00019 UJ              | 0.000732                | 0.000167 U              |
| Perfluorononanoic acid (PFNA)                                      | 0.00122 J                | 0.00129 U                | 0.000541 U               | 0.00147 U                | 0.00129 U                | 0.000791 U               | 0.00232 U               | 0.000274 U              | 0.000894                | 0.000241 U              |
| Perfluorodecanoic acid (PFDA)                                      | 0.00165 J                | 0.00139 U                | 0.000586 U               | 0.00138 J                | 0.00139 U                | 0.000857 U               | 0.00252 U               | 0.000297 U              | 0.000476                | 0.000261 U              |
| Perfluoroundecanoic acid (PFUnA)                                   | 0.00285                  | 0.00107 U                | 0.000451 U               | 0.00122 U                | 0.00107 U                | 0.000659 U               | 0.00194 U               | 0.000228 U              | 0.00163                 | 0.000201 U              |
| Perfluorododecanoic acid (PFDoA)                                   | 0.00123 J                | 0.000857 U               | 0.000361 UJ              | 0.000498 J               | 0.000857 U               | 0.000527 U               | 0.00155 U               | 0.000183 U              | 0.000829                | 0.000161 U              |
| Perfluorotridecanoic acid (PFTrDA)                                 | 0.00473                  | 0.00103 J                | 0.000586 UJ              | 0.00099 J                | 0.00139 U                | 0.000857 U               | 0.00226 J               | 0.000297 U              | 0.0073                  | 0.000261 U              |
| Perfluorotetradecanoic acid (PFTeDA)                               | 0.00109 J                | 0.00111 U                | 0.000466 U               | 0.00127 U                | 0.00111 U                | 0.000681 U               | 0.002 U                 | 0.000236 U              | 0.00108                 | 0.000207 U              |
| Perfluorobutanesulfonic acid (PFBS)                                | 0.00148 U                | 0.00121 U                | 0.000511 U               | 0.00139 U                | 0.00121 U                | 0.000747 U               | 0.00219 U               | 0.000259 UJ             | 0.000325 U              | 0.000227 UJ             |
| Perfluoropentanesulfonic acid (PFPeS)                              | 0.00087 U                | 0.000714 U               | 0.000301 U               | 0.000816 U               | 0.000714 U               | 0.00044 U                | 0.00129 U               | 0.000152 U              | 0.000191 U              | 0.000134 UJ             |
| Perfluorohexanesulfonic acid (PFHxS)                               | 0.0013 U                 | 0.00107 U                | 0.000451 U               | 0.00122 U                | 0.00107 U                | 0.000659 U               | 0.00194 U               | 0.000228 U              | 0.00168                 | 0.000201 UJ             |
| Perfluoroheptanesulfonic acid (PFHpS)                              | 0.00152 U                | 0.00125 U                | 0.000526 U               | 0.00143 U                | 0.00125 U                | 0.000769 U               | 0.00226 U               | 0.000266 U              | 0.000335 U              | 0.000234 U              |
| Perfluorooctanesulfonic acid (PFOS)                                | 0.0179                   | 0.00139 U                | 0.000586 U               | 0.0059                   | 0.000759 J               | 0.000857 U               | 0.0261                  | 0.000297 U              | 0.00586                 | 0.000261 U              |
| Perfluorononanesulfonic acid (PFNS)                                | 0.00172 U                | 0.00141 U                | 0.000594 U               | 0.00161 U                | 0.00141 U                | 0.000868 U               | 0.00255 U               | 0.0003 U                | 0.000378 U              | 0.000264 U              |
| Perfluorodecanesulfonic acid (PFDS)                                | 0.00143 U                | 0.00118 U                | 0.000496 U               | 0.00135 U                | 0.00118 U                | 0.000725 U               | 0.00213 U               | 0.000251 U              | 0.000316 U              | 0.000221 U              |
| Perfluorododecanesulfonic acid (PFDoS)                             | 0.000826 U               | 0.000679 U               | 0.000286 U               | 0.000776 U               | 0.000679 U               | 0.000418 U               | 0.001 J                 | 0.000144 U              | 0.000182 U              | 0.000127 U              |
| 1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)               | 0.00574 U                | 0.00471 U                | 0.00198 U                | 0.00539 U                | 0.00471 U                | 0.0029 U                 | 0.00852 U               | 0.001 U                 | 0.00126 U               | 0.000883 UJ             |
| 1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)               | 0.00352 U                | 0.00289 U                | 0.00122 U                | 0.00331 U                | 0.00289 U                | 0.00178 U                | 0.00523 U               | 0.000616 U              | 0.000775 U              | 0.000542 UJ             |
| 1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)               | 0.00348 U                | 0.00286 U                | 0.0012 U                 | 0.00327 U                | 0.00286 U                | 0.00176 U                | 0.00516 U               | 0.000608 U              | 0.000766 U              | 0.000535 UJ             |
| Perfluorooctane sulfonamide (PFOSA)                                | 0.000696 U               | 0.000571 U               | 0.000241 U               | 0.000653 U               | 0.000571 U               | 0.000352 U               | 0.0233                  | 0.000122 U              | 0.000842                | 0.000107 U              |
| N-methyl perfluorooctanesulfonamide (NMeFOSA)                      | 0.000435 U               | 0.000357 U               | 0.00015 U                | 0.000408 U               | 0.000357 U               | 0.00022 U                | 0.00383                 | 0.000076 U              | 0.000481                | 0.000066 U              |
| N-ethyl perfluorooctanesulfonamide (NEtFOSA)                       | 0.00148 U                | 0.00121 U                | 0.000511 U               | 0.00139 U                | 0.00121 U                | 0.000747 U               | 0.0121                  | 0.000259 U              | 0.0024                  | 0.000227 U              |
| N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)          | 0.00161 U                | 0.00132 U                | 0.000556 U               | 0.00151 U                | 0.00132 U                | 0.000813 U               | 0.00239 U               | 0.000281 U              | 0.000354 U              | 0.000247 U              |
| N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)           | 0.00165 U                | 0.00136 U                | 0.000571 U               | 0.00155 U                | 0.00136 U                | 0.000835 U               | 0.00245 U               | 0.000289 U              | 0.000364 U              | 0.000254 UJ             |
| N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)               | 0.0083 U                 | 0.00682 U                | 0.00287 U                | 0.0078 U                 | 0.00682 U                | 0.0042 U                 | 0.0122 J                | 0.00145 U               | 0.00183 U               | 0.00128 U               |
| N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)                | 0.0087 U                 | 0.00714 U                | 0.00301 U                | 0 R                      | 0.00714 U                | 0.0044 U                 | 0.0225 J                | 0.00152 U               | 0.001 J                 | 0.00134 U               |
| Hexafluoropropylene oxide dimer acid (HFPO-DA)                     | 0.00504 U                | 0.00414 U                | 0.00174 U                | 0.00473 U                | 0.00414 U                | 0.00255 U                | 0.00748 U               | 0 R                     | 0.00111 UJ              | 0.000776 U              |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA)                        | 0.00391 U                | 0.00321 U                | 0.00135 U                | 0.00367 U                | 0.00321 U                | 0.00198 U                | 0.00581 U               | 0 R                     | 0.000861 UJ             | 0.000602 U              |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                          | 0.003 U                  | 0.00246 U                | 0.00104 U                | 0.00282 U                | 0.00246 U                | 0.00152 U                | 0.00445 U               | 0.000525 UJ             | 0.00066 UJ              | 0.000462 U              |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                           | 0.00235 U                | 0.00193 U                | 0.000812 U               | 0.00363                  | 0.00193 U                | 0.00119 U                | 0.00348 U               | 0.000411 UJ             | 0.000517 UJ             | 0.000361 U              |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)                         | 0.000913 U               | 0.00075 U                | 0.000316 U               | 0.000857 U               | 0.00075 U                | 0.000462 U               | 0.00135 U               | 0.00016 UJ              | 0.000201 UJ             | 0.00014 U               |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONs)    | 0.00543 U                | 0.00446 U                | 0.00188 U                | 0.0051 U                 | 0.00446 U                | 0.00275 U                | 0.00806 U               | 0 R                     | 0.0012 UJ               | 0.000836 U              |
| 11-Chlororeicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) | 0.00517 U                | 0.00425 U                | 0.00179 U                | 0.00486 U                | 0.00425 U                | 0.00262 U                | 0.00768 U               | 0 R                     | 0.00114 UJ              | 0.000796 U              |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEEsA)                    | 0.00152 U                | 0.00125 U                | 0.000526 U               | 0.00143 U                | 0.00125 U                | 0.000769 U               | 0.00226 U               | 0.000266 UJ             | 0.000335 UJ             | 0.000234 U              |
| 3-Perfluoropropyl propanoic acid (3:3FTCA)                         | 0.00213 U                | 0.00175 U                | 0.000737 U               | 0.002 U                  | 0.00175 U                | 0.00108 U                | 0.00316 U               | 0.000373 UJ             | 0.000469 UJ             | 0.000328 U              |
| 2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)                       | 0.0297 U                 | 0.0244 U                 | 0.0103 U                 | 0.0279 U                 | 0.0244 U                 | 0.015 U                  | 0.0441 U                | 0.0052 UJ               | 0.00655 UJ              | 0.00458 U               |
| 3-Perfluoroheptyl propanoic acid (7:3FTCA)                         | 0.0161 U                 | 0.0132 U                 | 0.00556 U                | 0.0151 U                 | 0.0132 U                 | 0.00813 U                | 0.0239 U                | 0.00281 UJ              | 0.00354 UJ              | 0.00247 U               |

Notes  
There are no applicable screening levels for ecological tissue.  
See Table 1-1 for notes.

Table 4-11  
Ecological Risk Assessment Tissue PFAS Analytical Results

PFAS CERCLA Remedial Investigation Site Characterization Summary Report  
Former Loring Air Force Base  
Limestone, ME

| Category:                                                          | Terrestrial             |                         |                         |                         |                         |                         |                         |                         |                         |                         |
|--------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Drainage/Area:                                                     | BIOC                    |                         |                         |                         |                         | BIOD                    |                         |                         |                         |                         |
| Location ID:                                                       | E-T-BIOC_INV01          | E-T-BIOC_INV02          | E-T-BIOC_PLT01          | E-T-BIOC_PLT02          | E-T-BIOC_RNT01          | E-T-BIOC_RNT02          | E-T-BIOD_INV01          | E-T-BIOD_INV02          | E-T-BIOD_PLT01          | E-T-BIOD_PLT02          |
| Sample ID:                                                         | E-T-BIOC_INV01_20240815 | E-T-BIOC_INV02_20240815 | E-T-BIOC_PLT01_20240815 | E-T-BIOC_PLT02_20240815 | E-T-BIOC_RNT01_20240911 | E-T-BIOC_RNT02_20240913 | E-T-BIOD_INV01_20240815 | E-T-BIOD_INV02_20240815 | E-T-BIOD_PLT01_20240815 | E-T-BIOD_PLT02_20240815 |
| Sample Date:                                                       | 8/15/2024               | 8/15/2024               | 8/15/2024               | 8/15/2024               | 9/11/2024               | 9/13/2024               | 8/15/2024               | 8/15/2024               | 8/15/2024               | 8/15/2024               |
| Sample Depth (ft bgs):                                             | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               |
| Sample Type:                                                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       |
| Latitude:                                                          | 46.96163373             | 46.96111424             | 46.96150275             | 46.96113408             | 46.96109631             | 46.9610946              | 46.96182024             | 46.9617009              | 46.96177168             | 46.96168203             |
| Longitude:                                                         | -67.88216481            | -67.88262354            | -67.88203242            | -67.88232057            | -67.88234595            | -67.88234539            | -67.88026754            | -67.88139787            | -67.88021481            | -67.88144664            |
| Analyte                                                            | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   |
| Perfluorobutanoic acid (PFBA)                                      | 0.121                   | 0.0166 J                | 0.0019 J                | 0.0121                  | 0.0157                  | 0.00746                 | 0.00757 J               | 0.0196                  | 0.000752 U              | 0.0172                  |
| Perfluoropentanoic acid (PFPeA)                                    | 0.328                   | 0.0296                  | 0.000303 UJ             | 0.0133 J                | 0.0513                  | 0.0185 J                | 0.00943 J-              | 0.0223                  | 0.000725 UJ             | 0.000374 UJ             |
| Perfluorohexanoic acid (PFHxA)                                     | 0.28                    | 0.0189                  | 0.000207 UJ             | 0.000281 UJ             | 0.0288                  | 0.0173 J                | 0.015 J                 | 0.00741                 | 0.000497 UJ             | 0.000256 UJ             |
| Perfluoroheptanoic acid (PFHpA)                                    | 0.121 J+                | 0.00438 UJ              | 0.000196 UJ             | 0.000266 UJ             | 0.0745                  | 0.0159 J                | 0.00233 UJ              | 0.00849 J+              | 0.00047 UJ              | 0.000242 UJ             |
| Perfluorooctanoic acid (PFOA)                                      | 0.114                   | 0.00832 J               | 0.00014 U               | 0.00019 U               | 0.0541                  | 0.0114                  | 0.00904                 | 0.00705                 | 0.000336 U              | 0.000173 UJ             |
| Perfluorononanoic acid (PFNA)                                      | 0.0508                  | 0.00466 J               | 0.000202 U              | 0.000274 U              | 0.0231                  | 0.00403                 | 0.00733                 | 0.00383                 | 0.000483 U              | 0.000249 U              |
| Perfluorodecanoic acid (PFDA)                                      | 0.048                   | 0.00488 U               | 0.000218 U              | 0.000297 U              | 0.00273                 | 0.0014                  | 0.00318                 | 0.00151                 | 0.000523 U              | 0.00027 U               |
| Perfluoroundecanoic acid (PFUnA)                                   | 0.245                   | 0.00461 J               | 0.000168 U              | 0.000228 U              | 0.00885                 | 0.0042                  | 0.0088                  | 0.00377                 | 0.000403 U              | 0.000208 U              |
| Perfluorododecanoic acid (PFDoA)                                   | 0.104                   | 0.00193 J               | 0.000134 U              | 0.000183 U              | 0.0035                  | 0.00276                 | 0.00503                 | 0.00207                 | 0.000322 U              | 0.000166 U              |
| Perfluorotridecanoic acid (PFTrDA)                                 | 0.0887                  | 0.00526 J+              | 0.000218 U              | 0.000297 U              | 0.00238                 | 0.00279                 | 0.0249                  | 0.00884 J+              | 0.000523 U              | 0.00027 U               |
| Perfluorotetradecanoic acid (PFTeDA)                               | 0.0445                  | 0.00388 UJ              | 0.000174 U              | 0.000236 U              | 0.0015                  | 0.00144                 | 0.00581                 | 0.00204 J+              | 0.000416 U              | 0.000215 U              |
| Perfluorobutanesulfonic acid (PFBS)                                | 0.114                   | 0.0109                  | 0.00019 U               | 0.000259 U              | 0.0266 J                | 0.00332 J               | 0.00641                 | 0.0266 U                | 0.00034 U               | 0.000456 U              |
| Perfluoropentanesulfonic acid (PFPeS)                              | 0.00148 U               | 0.00768                 | 0.000112 U              | 0.000152 U              | 0.544 J                 | 0.139 J                 | 0.00133 U               | 0.0002 U                | 0.000268 U              | 0.000138 U              |
| Perfluorohexanesulfonic acid (PFHxS)                               | 2.51                    | 0.493 J                 | 0.00379                 | 0.00342                 | 11.4                    | 5.81                    | 0.139                   | 0.0349                  | 0.000403 U              | 0.000208 U              |
| Perfluoroheptanesulfonic acid (PFHpS)                              | 0.0931                  | 0.00538                 | 0.000196 U              | 0.000266 U              | 0.084                   | 0.00805                 | 0.00559                 | 0.00178                 | 0.00047 U               | 0.000242 U              |
| Perfluorooctanesulfonic acid (PFOS)                                | 9.21                    | 0.431 J                 | 0.00479                 | 0.00329                 | 2.31                    | 0.435                   | 0.381                   | 0.39                    | 0.000523 U              | 0.00027 U               |
| Perfluorononanesulfonic acid (PFNS)                                | 0.264                   | 0.00333 J               | 0.000221 U              | 0.0003 U                | 0.0213                  | 0.00559                 | 0.00263 U               | 0.00204                 | 0.00053 U               | 0.000273 U              |
| Perfluorodecanesulfonic acid (PFDS)                                | 0.617                   | 0.00444 J               | 0.000185 U              | 0.000251 U              | 0.0611                  | 0.025                   | 0.0022 U                | 0.00136                 | 0.000443 U              | 0.000228 U              |
| Perfluorododecanesulfonic acid (PFDoS)                             | 0.689                   | 0.00343 J               | 0.000106 U              | 0.000144 U              | 0.0924                  | 0.044                   | 0.00127 U               | 0.000915                | 0.000255 U              | 0.000131 U              |
| 1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)               | 0.00978 U               | 0.0165 U                | 0.000739 U              | 0.001 U                 | 0.00419 UJ              | 0.00447 UJ              | 0.0088 U                | 0.00132 U               | 0.00177 U               | 0.000913 U              |
| 1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)               | 0.0541                  | 0.0101 U                | 0.000454 U              | 0.000616 U              | 0.00153 J-              | 0.00299 J-              | 0.0054 U                | 0.00081 U               | 0.00109 U               | 0.000561 U              |
| 1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)               | 0.676                   | 0.0257                  | 0.000448 U              | 0.000608 U              | 0.00611 J               | 0.0102 J                | 0.00533 U               | 0.00485                 | 0.00107 U               | 0.000554 U              |
| Perfluorooctane sulfonamide (PFOSA)                                | 0.213                   | 0.0392 J                | 0.000122 U              | 0.00013 U               | 0.0942                  | 0.108                   | 0.00166 J               | 0.000741                | 0.000215 U              | 0.000111 U              |
| N-methyl perfluorooctanesulfonamide (NMeFOSA)                      | 0.00465                 | 0.00125 U               | 0.000056 U              | 0.000076 U              | 0.000317 U              | 0.000339 U              | 0.000667 U              | 0.0001 U                | 0.000134 U              | 0.000069 U              |
| N-ethyl perfluorooctanesulfonamide (NEtFOSA)                       | 0.00427                 | 0.00284 J               | 0.00019 U               | 0.000259 U              | 0.00108 U               | 0.00115 U               | 0.00213 J               | 0.000437                | 0.000456 U              | 0.000235 U              |
| N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)          | 0.00274 U               | 0.00463 U               | 0.000207 U              | 0.000281 U              | 0.00117 U               | 0.00125 U               | 0.00247 U               | 0.00037 U               | 0.000497 U              | 0.000256 U              |
| N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)           | 0.00281 U               | 0.00475 U               | 0.000213 U              | 0.000289 U              | 0.00121 U               | 0.00129 U               | 0.00253 U               | 0.00038 U               | 0.00051 U               | 0.000263 U              |
| N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)               | 0.0141 U                | 0.0239 U                | 0.00107 U               | 0.00145 U               | 0.0239 U                | 0.00647 U               | 0.00127 U               | 0.00191 U               | 0.00256 U               | 0.00132 U               |
| N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)                | 0.0148 U                | 0.025 U                 | 0.00112 U               | 0.00141 J               | 0.00635 UJ              | 0.00678 U               | 0.0133 U                | 0.002 U                 | 0.00268 U               | 0.00138 U               |
| Hexafluoropropylene oxide dimer acid (HFPO-DA)                     | 0.00859 U               | 0.0145 U                | 0.00065 UJ              | 0.000882 UJ             | 0.00368 U               | 0.00393 UJ              | 0.00773 UJ              | 0.00116 U               | 0.00156 UJ              | 0.000803 UJ             |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA)                        | 0.00667 U               | 0.0113 U                | 0.000504 UJ             | 0.000684 UJ             | 0.00286 U               | 0.00305 UJ              | 0.006 UJ                | 0.0009 U                | 0.00121 UJ              | 0.000623 UJ             |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                          | 0.00511 U               | 0.00863 U               | 0.000387 UJ             | 0.000525 UJ             | 0.00219 U               | 0.00234 UJ              | 0.0046 UJ               | 0.00069 U               | 0.000926 UJ             | 0.000478 UJ             |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                           | 0.004 U                 | 0.00675 U               | 0.000303 UJ             | 0.000411 UJ             | 0.00171 U               | 0.00183 UJ              | 0.0036 UJ               | 0.00054 U               | 0.000725 UJ             | 0.000374 UJ             |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)                         | 0.00156 U               | 0.00263 U               | 0.000118 UJ             | 0.00016 UJ              | 0.000667 U              | 0.000712 UJ             | 0.0014 UJ               | 0.00021 U               | 0.000282 UJ             | 0.000145 UJ             |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)    | 0.00926 U               | 0.0156 U                | 0.0007 UJ               | 0.000951 UJ             | 0.00397 U               | 0.00424 UJ              | 0.00833 UJ              | 0.00125 U               | 0.00168 UJ              | 0.000865 UJ             |
| 11-Chlororeicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) | 0.00881 U               | 0.0149 U                | 0.000667 UJ             | 0.000905 UJ             | 0.00378 U               | 0.00403 UJ              | 0.00793 UJ              | 0.00119 U               | 0.0016 UJ               | 0.000824 UJ             |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)                   | 0.00259 U               | 0.00438 U               | 0.000196 UJ             | 0.000266 UJ             | 0.00111 U               | 0.00119 UJ              | 0.00233 UJ              | 0.00035 U               | 0.00047 UJ              | 0.000242 UJ             |
| 3-Perfluoropropyl propanoic acid (3:3FTCA)                         | 0.778                   | 0.011 J                 | 0.000275 UJ             | 0.000373 UJ             | 0.00156 U               | 0.00166 UJ              | 0.00327 UJ              | 0.00744                 | 0.000658 UJ             | 0.000339 UJ             |
| 2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)                       | 5.85                    | 0.144 J+                | 0.00383 UJ              | 0.0052 UJ               | 0.0481                  | 0.0348 J                | 0.108 J                 | 0.024                   | 0.00918 UJ              | 0.00473 UJ              |
| 3-Perfluoroheptyl propanoic acid (7:3FTCA)                         | 5.39                    | 0.164 J                 | 0.00207 UJ              | 0.00281 UJ              | 1.53                    | 0.47 J                  | 0.0834 J                | 0.0369                  | 0.00497 UJ              | 0.00256 UJ              |

Notes  
There are no applicable screening levels for ecological tissue.  
See Table 1-1 for notes.

Table 4-11  
Ecological Risk Assessment Tissue PFAS Analytical Results

PFAS CERCLA Remedial Investigation Site Characterization Summary Report  
Former Loring Air Force Base  
Limestone, ME

| Category:                                                          | Terrestrial             |                         |                         |                         |                         |                         |                         |                         |                         |                         |
|--------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Drainage/Area:                                                     | BIOD                    | BIOE                    |                         |                         |                         | BIOF                    |                         |                         | BIOG                    |                         |
| Location ID:                                                       | E-T-BIOD_RNT01          | E-T-BIOE_INV01          | E-T-BIOE_INV02          | E-T-BIOE_PLT01          | E-T-BIOE_RNT01          | E-T-BIOF_INV01          | E-T-BIOF_PLT01          | E-T-BIOF_RNT01          | E-T-BIOG_INV01          | E-T-BIOG_PLT01          |
| Sample ID:                                                         | E-T-BIOD_RNT01_20240816 | E-T-BIOE_INV01_20240818 | E-T-BIOE_INV02_20240819 | E-T-BIOE_PLT01_20240819 | E-T-BIOE_RNT01_20240911 | E-T-BIOF_INV01_20240910 | E-T-BIOF_PLT01_20240910 | E-T-BIOF_RNT01_20240912 | E-T-BIOG_INV01_20240817 | E-T-BIOG_PLT01_20240817 |
| Sample Date:                                                       | 8/16/2024               | 8/18/2024               | 8/19/2024               | 8/19/2024               | 9/11/2024               | 9/10/2024               | 9/10/2024               | 9/12/2024               | 8/17/2024               | 8/17/2024               |
| Sample Depth (ft bgs):                                             | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               |
| Sample Type:                                                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       |
| Latitude:                                                          | 46.9618477              | 46.94810312             | 46.94814122             | 46.94816934             | 46.94853                | 46.94749287             | 46.94880707             | 46.947323               | 46.94322174             | 46.94318641             |
| Longitude:                                                         | -67.8803147             | -67.90514427            | -67.90524854            | -67.90517528            | -67.90496               | -67.88565018            | -67.88572814            | -67.885942              | -67.8898172             | -67.88983337            |
| Analyte                                                            | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   |
| Perfluorobutanoic acid (PFBA)                                      | 0.00211 U               | 0.00747 U               | 0.00589 U               | 0.00185 J               | 0.00215 U               | 0.00344                 | 0.00145                 | 0.00196 U               | 0.237                   | 0.195                   |
| Perfluoropentanoic acid (PFPeA)                                    | 0.00204 U               | 0.0072 U                | 0.00568 U               | 0.000758 J              | 0.00231 J               | 0.000879                | 0 R                     | 0.00189 UJ              | 0.698 J-                | 0.227 J                 |
| Perfluorohexanoic acid (PFHxA)                                     | 0.0014 U                | 0.00493 U               | 0.00389 U               | 0.000521 U              | 0.00142 U               | 0.000356 U              | 0 R                     | 0.0013 UJ               | 0.364 J                 | 0.0341 J                |
| Perfluoroheptanoic acid (PFHpA)                                    | 0.00132 U               | 0.00467 UJ              | 0.00368 U               | 0.000493 U              | 0.00135 U               | 0.000337 U              | 0 R                     | 0.00123 UJ              | 0.238 J+                | 0.00884 J               |
| Perfluorooctanoic acid (PFOA)                                      | 0.000943 U              | 0.00333 U               | 0.00263 U               | 0.000352 U              | 0.000962 U              | 0.000999                | 0.000172 UJ             | 0.000877 U              | 0.179                   | 0.0066                  |
| Perfluorononanoic acid (PFNA)                                      | 0.00136 U               | 0.00307 J               | 0.00379 U               | 0.000507 UJ             | 0.00138 U               | 0.000991                | 0.000247 UJ             | 0.00126 U               | 0.063                   | 0.00223                 |
| Perfluorodecanoic acid (PFDA)                                      | 0.00147 U               | 0.0052 U                | 0.00411 U               | 0.000549 U              | 0.0015 U                | 0.000464                | 0.000268 UJ             | 0.00137 U               | 0.0411                  | 0.000406 J              |
| Perfluoroundecanoic acid (PFUnA)                                   | 0.00113 U               | 0.004 U                 | 0.00209 J               | 0.000423 U              | 0.00115 U               | 0.0013                  | 0.000206 UJ             | 0.00105 U               | 0.191                   | 0.000364 U              |
| Perfluorododecanoic acid (PFDoA)                                   | 0.000906 U              | 0.0032 U                | 0.00176 J               | 0.000338 U              | 0.000923 U              | 0.00086                 | 0.000165 UJ             | 0.000842 U              | 0.182                   | 0.000291 U              |
| Perfluorotridecanoic acid (PFTrDA)                                 | 0.00147 U               | 0.0052 UJ               | 0.00411 U               | 0.000549 U              | 0.0015 U                | 0.00311                 | 0.000268 UJ             | 0.00137 U               | 0.218 J+                | 0.000473 U              |
| Perfluorotetradecanoic acid (PFTeDA)                               | 0.00117 U               | 0.00413 UJ              | 0.00326 U               | 0.000437 U              | 0.00119 U               | 0.000857                | 0.000213 UJ             | 0.00109 U               | 0.103 J+                | 0.000376 U              |
| Perfluorobutanesulfonic acid (PFBS)                                | 0.00128 U               | 0.00453 U               | 0.00358 U               | 0.000769                | 0.00131 U               | 0.000327 U              | 0.000234 UJ             | 0.00119 U               | 0.0247                  | 0.00124 J               |
| Perfluoropentanesulfonic acid (PFPeS)                              | 0.000755 U              | 0.00267 U               | 0.00211 U               | 0.00018 J               | 0.000769 U              | 0.000192 U              | 0.000137 UJ             | 0.000702 U              | 0.00129 U               | 0.00113                 |
| Perfluorohexanesulfonic acid (PFHxS)                               | 0.00113 U               | 0.0229                  | 0.00452                 | 0.00259                 | 0.00115 U               | 0.00116                 | 0.000206 UJ             | 0.00105 U               | 3.98                    | 0.0366                  |
| Perfluoroheptanesulfonic acid (PFHpS)                              | 0.00132 U               | 0.00231 J               | 0.00368 U               | 0.000493 U              | 0.00135 U               | 0.000337 U              | 0.000241 U              | 0.00123 U               | 0.151                   | 0.000818 J              |
| Perfluorooctanesulfonic acid (PFOS)                                | 0.0244                  | 0.327 J                 | 0.154                   | 0.00198                 | 0.102                   | 0.00562                 | 0.000268 U              | 0.00213                 | 10.6                    | 0.0669                  |
| Perfluorononanesulfonic acid (PFNS)                                | 0.00149 U               | 0.00527 U               | 0.00416 U               | 0.000556 U              | 0.00152 U               | 0.00038 U               | 0.000271 U              | 0.00139 U               | 0.255                   | 0.000304 J              |
| Perfluorodecanesulfonic acid (PFDS)                                | 0.00125 U               | 0.00227 J               | 0.00347 U               | 0.000465 U              | 0.00127 U               | 0.000317 U              | 0.000227 U              | 0.00116 U               | 0.935                   | 0.0004 U                |
| Perfluorododecanesulfonic acid (PFDoS)                             | 0.000717 U              | 0.00253 U               | 0.002 U                 | 0.000268 U              | 0.000731 U              | 0.000183 U              | 0.000131 U              | 0.000667 U              | 1.2                     | 0.00023 U               |
| 1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)               | 0.00498 U               | 0.0176 U                | 0.0139 U                | 0.00186 U               | 0.00508 U               | 0.00127 U               | 0.000907 UJ             | 0.00463 U               | 0.00852 U               | 0.0016 U                |
| 1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)               | 0.00306 U               | 0.0108 U                | 0.00853 U               | 0.00114 U               | 0.00312 U               | 0.000779 U              | 0.000557 UJ             | 0.00284 U               | 1.26 J-                 | 0.0155                  |
| 1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)               | 0.00302 U               | 0.0113 J                | 0.00568 J               | 0.00113 U               | 0.00308 U               | 0.000769 U              | 0.00055 UJ              | 0.00281 U               | 4.08                    | 0.00689                 |
| Perfluorooctane sulfonamide (PFOSA)                                | 0.000604 U              | 0.00213 U               | 0.0116                  | 0.000225 U              | 0.000615 U              | 0.00348                 | 0.00011 U               | 0.000561 U              | 1.87                    | 0.000538 J+             |
| N-methyl perfluorooctanesulfonamide (NMeFOSA)                      | 0.000377 U              | 0.00133 U               | 0.00195 J               | 0.000141 U              | 0.000385 U              | 0.00133                 | 0.000068 U              | 0.000351 U              | 0.0535                  | 0.000121 U              |
| N-ethyl perfluorooctanesulfonamide (NEtFOSA)                       | 0.00128 U               | 0.00453 U               | 0.00618                 | 0.000479 U              | 0.00131 U               | 0.00734                 | 0.000234 U              | 0.00119 U               | 0.0254                  | 0.000412 U              |
| N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)          | 0.0014 U                | 0.00493 U               | 0.00389 U               | 0.000521 U              | 0.00142 U               | 0.000356 U              | 0.000254 U              | 0.0013 U                | 0.125                   | 0.000448 U              |
| N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)           | 0.00143 U               | 0.00507 U               | 0.004 U                 | 0.000535 U              | 0.00146 U               | 0.000245 J-             | 0.000261 U              | 0.00133 U               | 0.0074                  | 0.000461 U              |
| N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)               | 0.00721 U               | 0.0255 U                | 0.0201 U                | 0.00269 U               | 0.00735 U               | 0.00269 J               | 0.00131 U               | 0.0067 U                | 0.0342                  | 0.00232 U               |
| N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)                | 0.00755 U               | 0.0267 U                | 0.0293 J                | 0.00282 U               | 0.00769 U               | 0.00707                 | 0.00137 U               | 0.00702 U               | 0.0744                  | 0.00242 U               |
| Hexafluoropropylene oxide dimer acid (HFPO-DA)                     | 0.00438 U               | 0.0155 U                | 0.0122 U                | 0.00163 U               | 0.00446 U               | 0.00112 U               | 0 R                     | 0.00407 UJ              | 0.00748 UJ              | 0.00141 UJ              |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA)                        | 0.0034 U                | 0.012 U                 | 0.00947 U               | 0.00127 UJ              | 0.00346 U               | 0.000865 U              | 0 R                     | 0.00316 UJ              | 0.00581 UJ              | 0.00109 UJ              |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                          | 0.0026 U                | 0.0092 U                | 0.00726 U               | 0.000972 U              | 0.00265 U               | 0.000663 U              | 0 R                     | 0.00242 UJ              | 0.00445 UJ              | 0.000836 UJ             |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                           | 0.00204 U               | 0.0072 U                | 0.00568 U               | 0.000761 U              | 0.00208 U               | 0.000305 J              | 0 R                     | 0.00189 UJ              | 0.00348 UJ              | 0.000655 UJ             |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)                         | 0.000792 U              | 0.0028 U                | 0.00221 U               | 0.000296 U              | 0.000808 U              | 0.000202 U              | 0 R                     | 0.000737 UJ             | 0.00135 UJ              | 0.000255 UJ             |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONs)    | 0.00472 U               | 0.0167 U                | 0.0132 U                | 0.00176 U               | 0.00481 U               | 0.0012 U                | 0 R                     | 0.00439 UJ              | 0.00806 UJ              | 0.00152 UJ              |
| 11-Chlororeicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) | 0.00449 U               | 0.0159 U                | 0.0125 U                | 0.00168 U               | 0.00458 U               | 0.00114 U               | 0 R                     | 0.00418 UJ              | 0.00768 UJ              | 0.00144 UJ              |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEEsA)                    | 0.00132 U               | 0.00467 U               | 0.00368 U               | 0.000493 U              | 0.00135 U               | 0.000337 U              | 0 R                     | 0.00123 UJ              | 0.00226 UJ              | 0.000424 UJ             |
| 3-Perfluoropropyl propanoic acid (3:3FTCA)                         | 0.00185 U               | 0.00653 U               | 0.00516 U               | 0.00069 U               | 0.00188 U               | 0.000471 U              | 0 R                     | 0.00172 UJ              | 7.95                    | 0.000594 UJ             |
| 2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)                       | 0.0258 U                | 0.071 J                 | 0.072 U                 | 0.00963 U               | 0.0263 U                | 0.00658 U               | 0 R                     | 0.024 UJ                | 191                     | 0.00829 UJ              |
| 3-Perfluoroheptyl propanoic acid (7:3FTCA)                         | 0.014 U                 | 0.0732 J                | 0.0452 J                | 0.00521 U               | 0.0142 U                | 0.00356 U               | 0 R                     | 0.013 UJ                | 149                     | 0.00448 UJ              |

Notes  
There are no applicable screening levels for ecological tissue.  
See Table 1-1 for notes.

Table 4-11  
Ecological Risk Assessment Tissue PFAS Analytical Results

PFAS CERCLA Remedial Investigation Site Characterization Summary Report  
Former Loring Air Force Base  
Limestone, ME

| Category:                                                          | Terrestrial             |                         |                         |                         |                         |                         |                         |                         |                         |                         |
|--------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Drainage/Area:                                                     | BIOG                    | BIOH                    |                         |                         |                         | BIOI                    |                         |                         |                         |                         |
| Location ID:                                                       | E-T-BIOG_PLT02          | E-T-BIOH_INV01          | E-T-BIOH_INV02          | E-T-BIOH_PLT01          | E-T-BIOH_PLT02          | E-T-BIOI_INV01          | E-T-BIOI_INV02          | E-T-BIOI_PLT01          | E-T-BIOI_RNT01          | E-T-BIOI_INV01          |
| Sample ID:                                                         | E-T-BIOG_PLT02_20240817 | E-T-BIOH_INV01_20240817 | E-T-BIOH_INV02_20240817 | E-T-BIOH_PLT01_20240817 | E-T-BIOH_PLT02_20240817 | E-T-BIOI_INV01_20240816 | E-T-BIOI_INV02_20240816 | E-T-BIOI_PLT01_20240910 | E-T-BIOI_RNT01_20240814 | E-T-BIOI_INV01_20240816 |
| Sample Date:                                                       | 8/17/2024               | 8/17/2024               | 8/17/2024               | 8/17/2024               | 8/17/2024               | 8/16/2024               | 8/16/2024               | 9/10/2024               | 8/14/2024               | 8/16/2024               |
| Sample Depth (ft bgs):                                             | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               |
| Sample Type:                                                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       |
| Latitude:                                                          | 46.94347957             | 46.94322957             | 46.943768               | 46.94326657             | 46.94373281             | 46.935275039            | 46.93527408             | 46.93482207             | 46.93484074             | 46.93421336             |
| Longitude:                                                         | -67.88981637            | -67.88910421            | -67.889152              | -67.88922804            | -67.88909416            | -67.90750877            | -67.9062742             | -67.9077631             | -67.90770283            | -67.90764825            |
| Analyte                                                            | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   |
| Perfluorobutanoic acid (PFBA)                                      | 0.0622                  | 0.0813                  | 0.314                   | 0.0087                  | 0.00656                 | 0.000628 J              | 0.000875 U              | 0.00157 J+              | 0.00178 U               | 0.124                   |
| Perfluoropentanoic acid (PFPeA)                                    | 0.0504 J                | 0.151 J-                | 0.673 J-                | 0.00678 J               | 0.00284 J               | 0.00124 J               | 0.000505 J              | 0 R                     | 0.000967 J              | 0.246                   |
| Perfluorohexanoic acid (PFHxA)                                     | 0.00936 J               | 0.095 J                 | 0.189                   | 0.0139 J                | 0.000287 UJ             | 0.00037 UJ              | 0.000578 U              | 0 R                     | 0.00117 U               | 0.0563                  |
| Perfluoroheptanoic acid (PFHpA)                                    | 0.000217 UJ             | 0.0278 J                | 0.172 J+                | 0.00022 UJ              | 0.000271 UJ             | 0.00035 UJ              | 0.000547 UJ             | 0 R                     | 0.00111 U               | 0.0497 J+               |
| Perfluorooctanoic acid (PFOA)                                      | 0.00523 J               | 0.0368                  | 0.203                   | 0.00301                 | 0.000194 U              | 0.00204                 | 0.00131                 | 0.000185 UJ             | 0.000794 U              | 0.0399                  |
| Perfluorononanoic acid (PFNA)                                      | 0.00689 J               | 0.0242                  | 0.124                   | 0.00118                 | 0.000279 U              | 0.00161                 | 0.000346 J              | 0.000266 UJ             | 0.00114 U               | 0.0236                  |
| Perfluorodecanoic acid (PFDA)                                      | 0.000242 U              | 0.0141                  | 0.0555                  | 0.000164 J              | 0.000302 U              | 0.0012                  | 0.000609 U              | 0.000288 UJ             | 0.00124 U               | 0.017                   |
| Perfluoroundecanoic acid (PFUnA)                                   | 0.000186 U              | 0.0453                  | 0.139                   | 0.000189 U              | 0.000233 U              | 0.00243                 | 0.00043 J               | 0.000221 UJ             | 0.000952 U              | 0.0188                  |
| Perfluorododecanoic acid (PFDoA)                                   | 0.000149 U              | 0.0299                  | 0.0258                  | 0.000151 U              | 0.000186 U              | 0.00177                 | 0.00023 J               | 0.000177 UJ             | 0.000762 U              | 0.0077                  |
| Perfluorotridecanoic acid (PFTrDA)                                 | 0.000242 U              | 0.0619 J+               | 0.0676 J+               | 0.000245 U              | 0.000302 U              | 0.00657                 | 0.000821                | 0.000288 UJ             | 0.00124 U               | 0.0385                  |
| Perfluorotetradecanoic acid (PFTeDA)                               | 0.000193 U              | 0.013 J+                | 0.0169 J+               | 0.000195 U              | 0.00024 U               | 0.00228                 | 0.000484 U              | 0.000229 UJ             | 0.000984 U              | 0.0181                  |
| Perfluorobutanesulfonic acid (PFBS)                                | 0.000716                | 0.00612                 | 0.0129                  | 0.000214 UJ             | 0.000264 UJ             | 0.00245                 | 0.000531 U              | 0.000251 UJ             | 0.00108 U               | 0.0467                  |
| Perfluoropentanesulfonic acid (PFPeS)                              | 0.000878                | 0.00133 U               | 0.00133 U               | 0.000306                | 0.000155 UJ             | 0.0002 U                | 0.000313 U              | 0.000148 U              | 0.000635 U              | 0.00138 U               |
| Perfluorohexanesulfonic acid (PFHxS)                               | 0.0173                  | 1.59                    | 1.31                    | 0.0539                  | 0.000839                | 0.0401                  | 0.00343                 | 0.000221 U              | 0.000952 U              | 2.91                    |
| Perfluoroheptanesulfonic acid (PFHpS)                              | 0.000217 U              | 0.0825                  | 0.161                   | 0.000741                | 0.000271 U              | 0.0016                  | 0.000547 U              | 0.000258 UJ             | 0.00111 U               | 0.221                   |
| Perfluorooctanesulfonic acid (PFOS)                                | 0.057                   | 10.1                    | 12.4                    | 0.07                    | 0.00391 J-              | 0.184                   | 0.0239                  | 0.000288 UJ             | 0.0233 J-               | 38                      |
| Perfluorononanesulfonic acid (PFNS)                                | 0.000159 J              | 0.139                   | 0.304                   | 0.000224 J              | 0.000306 U              | 0.000521                | 0.000617 U              | 0.000292 UJ             | 0.00125 U               | 0.372                   |
| Perfluorodecanesulfonic acid (PFDS)                                | 0.000205 U              | 0.102                   | 0.187                   | 0.000208 U              | 0.000256 U              | 0.000439                | 0.000267 J              | 0.000244 UJ             | 0.00105 U               | 0.0218                  |
| Perfluorododecanesulfonic acid (PFDoS)                             | 0.000118 U              | 0.0469                  | 0.0599                  | 0.000119 U              | 0.000147 U              | 0.00019 U               | 0.000297 U              | 0.00014 UJ              | 0.000603 U              | 0.0413                  |
| 1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)               | 0.00082 U               | 0.0088 UJ               | 0.0088 U                | 0.00083 U               | 0.00102 U               | 0.00132 U               | 0.00206 U               | 0.000974 U              | 0.00419 U               | 0.0091 U                |
| 1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)               | 0.00155                 | 0.0132                  | 0.034                   | 0.000509 U              | 0.000628 U              | 0.00081 U               | 0.00127 U               | 0.000598 U              | 0.00257 U               | 1.24                    |
| 1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)               | 0.000489 J              | 0.0651                  | 0.0638                  | 0.000503 U              | 0.00062 U               | 0.0008 U                | 0.00125 U               | 0.00059 U               | 0.00254 U               | 1.03                    |
| Perfluorooctane sulfonamide (PFOSA)                                | 0.000132 J              | 0.261                   | 0.0196 J-               | 0.000321                | 0.000124 U              | 0.00125                 | 0.00135                 | 0.000118 UJ             | 0.000508 U              | 0.0526 J-               |
| N-methyl perfluorooctanesulfonamide (NMeFOSA)                      | 0.000062 U              | 0.000667 U              | 0.000667 U              | 0.000062 U              | 0.000077 U              | 0.000572                | 0.000156 U              | 0.000073 UJ             | 0.000317 U              | 0.00069 U               |
| N-ethyl perfluorooctanesulfonamide (NEtFOSA)                       | 0.000211 U              | 0.00209 J               | 0.00227 U               | 0.000214 U              | 0.000264 U              | 0.00148                 | 0.000531 U              | 0.000251 UJ             | 0.00108 U               | 0.00234 U               |
| N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)          | 0.00023 U               | 0.00247 U               | 0.00247 U               | 0.000233 U              | 0.000287 U              | 0.00037 U               | 0.000578 U              | 0.000273 UJ             | 0.00117 U               | 0.00255 U               |
| N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)           | 0.000236 U              | 0.00253 U               | 0.00253 U               | 0.000239 U              | 0.000295 U              | 0.00038 U               | 0.000594 U              | 0.00028 UJ              | 0.00121 U               | 0.00262 U               |
| N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)               | 0.00119 U               | 0.0127 U                | 0.0127 U                | 0.0012 U                | 0.00148 U               | 0.00191 U               | 0.00298 U               | 0.00141 UJ              | 0.00606 U               | 0.0132 U                |
| N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)                | 0.00124 U               | 0.0133 U                | 0.0133 U                | 0.00126 U               | 0.00155 U               | 0.00393 J               | 0.00313 U               | 0.00148 UJ              | 0.00635 U               | 0.0138 U                |
| Hexafluoropropylene oxide dimer acid (HFPO-DA)                     | 0.00072 UJ              | 0.00773 UJ              | 0.00773 U               | 0.00073 UJ              | 0 R                     | 0.00116 UJ              | 0.00181 U               | 0 R                     | 0.00368 U               | 0.008 U                 |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA)                        | 0.000559 UJ             | 0.006 UJ                | 0.006 U                 | 0.000566 UJ             | 0 R                     | 0.0009 UJ               | 0.00141 U               | 0 R                     | 0.00286 U               | 0.00621 U               |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                          | 0.000429 UJ             | 0.0046 UJ               | 0.0046 U                | 0.000434 UJ             | 0.000535 UJ             | 0.00069 UJ              | 0.00108 U               | 0 R                     | 0.00219 U               | 0.00476 U               |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                           | 0.000335 UJ             | 0.0036 UJ               | 0.0036 U                | 0.00034 UJ              | 0.000419 UJ             | 0.00054 UJ              | 0.000844 U              | 0 R                     | 0.00171 U               | 0.00372 U               |
| Nonafluoro-3,6-dioxahexanoic acid (NFDHA)                          | 0.00013 UJ              | 0.0014 UJ               | 0.0014 U                | 0.000132 UJ             | 0.000163 UJ             | 0.00021 UJ              | 0.000328 U              | 0 R                     | 0.000667 U              | 0.00145 U               |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)    | 0.000776 UJ             | 0.00833 UJ              | 0.00833 U               | 0.000786 UJ             | 0 R                     | 0.00125 UJ              | 0.00195 U               | 0 R                     | 0.00397 U               | 0.00862 U               |
| 11-Chlororeicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) | 0.000739 UJ             | 0.00793 UJ              | 0.00793 U               | 0.000748 UJ             | 0 R                     | 0.00119 UJ              | 0.00186 U               | 0 R                     | 0.00378 U               | 0.00821 U               |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)                   | 0.000217 UJ             | 0.00233 UJ              | 0.00233 U               | 0.00022 UJ              | 0.000271 UJ             | 0.00035 UJ              | 0.000547 U              | 0 R                     | 0.00111 U               | 0.00241 U               |
| 3-Perfluoropropyl propanoic acid (3:3FTCA)                         | 0.000304 UJ             | 0.537 J-                | 0.297 J-                | 0.000308 UJ             | 0.00038 UJ              | 0.00049 UJ              | 0.000675 J              | 0 R                     | 0.00156 U               | 2.9                     |
| 2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)                       | 0.00425 UJ              | 8.05 J                  | 2.02                    | 0.0043 UJ               | 0.0053 UJ               | 0.0106 J                | 0.0107 U                | 0 R                     | 0.0217 U                | 31                      |
| 3-Perfluoroheptyl propanoic acid (7:3FTCA)                         | 0.0023 UJ               | 11.8 J                  | 7.94                    | 0.00233 UJ              | 0.00287 UJ              | 0.0118 J                | 0.00788 J               | 0 R                     | 0.0117 U                | 7.82                    |

Notes  
There are no applicable screening levels for ecological tissue.  
See Table 1-1 for notes.

Table 4-11  
Ecological Risk Assessment Tissue PFAS Analytical Results

PFAS CERCLA Remedial Investigation Site Characterization Summary Report  
Former Loring Air Force Base  
Limestone, ME

| Category:                                                          | Terrestrial             |                         |                         |                         |                         |                         |                         |                         |                         |                         |
|--------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Drainage/Area:                                                     | BIOJ                    |                         |                         | BIOK                    |                         |                         | BIOL                    |                         |                         | BIOM                    |
| Location ID:                                                       | E-T-BIOJ_INV02          | E-T-BIOJ_PLT01          | E-T-BIOJ_RNT01          | E-T-BIOK_INV01          | E-T-BIOK_PLT01          | E-T-BIOK_RNT01          | E-T-BIOL_INV01          | E-T-BIOL_PLT01          | E-T-BIOL_RNT01          | E-T-BIOM_INV01          |
| Sample ID:                                                         | E-T-BIOJ_INV02_20240816 | E-T-BIOJ_PLT01_20240910 | E-T-BIOJ_RNT01_20240815 | E-T-BIOK_INV01_20240814 | E-T-BIOK_PLT01_20240814 | E-T-BIOK_RNT01_20240814 | E-T-BIOL_INV01_20240819 | E-T-BIOL_PLT01_20240814 | E-T-BIOL_RNT01_20240814 | E-T-BIOM_INV01_20240816 |
| Sample Date:                                                       | 8/16/2024               | 9/10/2024               | 8/15/2024               | 8/14/2024               | 8/14/2024               | 8/14/2024               | 8/19/2024               | 8/14/2024               | 8/14/2024               | 8/16/2024               |
| Sample Depth (ft bgs):                                             | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               |
| Sample Type:                                                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       |
| Latitude:                                                          | 46.9344666              | 46.93443578             | 46.93422018             | 46.92726643             | 46.92721358             | 46.92722783             | 46.92779509             | 46.92880631             | 46.92937803             | 46.927817               |
| Longitude:                                                         | -67.90642409            | -67.90686015            | -67.90719509            | -67.8950431             | -67.89506824            | -67.89456874            | -67.88258647            | -67.88412816            | -67.8853763             | -67.877345              |
| Analyte                                                            | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   |
| Perfluorobutanoic acid (PFBA)                                      | 0.0962                  | 0.00264                 | 0.00204 U               | 0.0148                  | 0.000606 J              | 0.00184 U               | 0.00487 U               | 0.000607 J              | 0.00184 U               | 0.000563 U              |
| Perfluoropentanoic acid (PFPeA)                                    | 0.453 J-                | 0 R                     | 0.00196 U               | 0.0423 J-               | 0.000545 U              | 0.00272                 | 0.0047 U                | 0.0039                  | 0.00177 U               | 0.000543 U              |
| Perfluorohexanoic acid (PFHxA)                                     | 0.179 J                 | 0 R                     | 0.00135 U               | 0.0577 J                | 0.000374 U              | 0.00121 U               | 0.00322 U               | 0.000349 U              | 0.00121 U               | 0.000372 U              |
| Perfluoroheptanoic acid (PFHpA)                                    | 0.148 J+                | 0 R                     | 0.00127 U               | 0.00292 UJ              | 0.000354 U              | 0.00115 U               | 0.00304 UJ              | 0.00033 U               | 0.00115 U               | 0.000352 UJ             |
| Perfluorooctanoic acid (PFOA)                                      | 0.188                   | 0.000202 UJ             | 0.000909 U              | 0.0415                  | 0.000253 UJ             | 0.00082 U               | 0.00287 J               | 0.000236 UJ             | 0.00082 U               | 0.000251 U              |
| Perfluorononanoic acid (PFNA)                                      | 0.117                   | 0.00029 UJ              | 0.00131 U               | 0.00656                 | 0.000364 U              | 0.00118 U               | 0.00164 J               | 0.00034 U               | 0.00118 U               | 0.000249 J              |
| Perfluorodecanoic acid (PFDA)                                      | 0.0203                  | 0.000315 UJ             | 0.00142 U               | 0.00493                 | 0.000394 U              | 0.00128 U               | 0.00339 U               | 0.000368 U              | 0.00128 U               | 0.000324 J              |
| Perfluoroundecanoic acid (PFUnA)                                   | 0.0637                  | 0.000242 UJ             | 0.00109 U               | 0.0136                  | 0.000303 U              | 0.000984 U              | 0.00503                 | 0.000283 U              | 0.000984 U              | 0.00146                 |
| Perfluorododecanoic acid (PFDoA)                                   | 0.0593                  | 0.000194 UJ             | 0.000873 U              | 0.0242 J-               | 0.000242 U              | 0.000787 U              | 0.00487                 | 0.000226 U              | 0.000787 U              | 0.00099                 |
| Perfluorotridecanoic acid (PFTrDA)                                 | 0.0743 J+               | 0.000315 UJ             | 0.00142 U               | 0.0495 J                | 0.000394 U              | 0.00128 U               | 0.0194 J+               | 0.000368 U              | 0.00128 U               | 0.00483                 |
| Perfluorotetradecanoic acid (PFTeDA)                               | 0.0575 J+               | 0.00025 UJ              | 0.00113 U               | 0.0304 J                | 0.000313 U              | 0.00102 U               | 0.0059 J+               | 0.000292 U              | 0.00102 U               | 0.00146                 |
| Perfluorobutanesulfonic acid (PFBS)                                | 0.305                   | 0.000274 UJ             | 0.00124 U               | 0.00986                 | 0.000343 U              | 0.00111 U               | 0.00296 U               | 0.000321 U              | 0.00111 U               | 0.000342 U              |
| Perfluoropentanesulfonic acid (PFPeS)                              | 0.00154 U               | 0.000161 UJ             | 0.000727 U              | 0 R                     | 0.000202 U              | 0.000656 U              | 0.00174 U               | 0.000189 U              | 0.000656 U              | 0.000201 U              |
| Perfluorohexanesulfonic acid (PFHxS)                               | 11                      | 0.00163 J               | 0.00213 J               | 1.45 J                  | 0.000219 J              | 0.00681                 | 0.0201                  | 0.000283 U              | 0.000984 UJ             | 0.000735 J              |
| Perfluoroheptanesulfonic acid (PFHpS)                              | 0.481                   | 0.000282 U              | 0.00127 U               | 0.0383 J                | 0.000354 U              | 0.00198                 | 0.00304 U               | 0.00033 U               | 0.00115 U               | 0.000352 U              |
| Perfluorooctanesulfonic acid (PFOS)                                | 17.7                    | 0.00433                 | 0.0301                  | 6.91                    | 0.000442                | 0.145                   | 0.0403                  | 0.000368 U              | 0.00651                 | 0.00231                 |
| Perfluorononanesulfonic acid (PFNS)                                | 0.145                   | 0.000319 U              | 0.00144 U               | 0.0194                  | 0.000399 U              | 0.0013 U                | 0.00343 U               | 0.000373 U              | 0.0013 U                | 0.000397 U              |
| Perfluorodecanesulfonic acid (PFDS)                                | 0.165                   | 0.000266 U              | 0.0012 U                | 0.0234                  | 0.000333 U              | 0.00108 U               | 0.00287 U               | 0.000311 U              | 0.00108 U               | 0.000332 U              |
| Perfluorododecanesulfonic acid (PFDoS)                             | 0.154                   | 0.000719                | 0.000691 U              | 0.00494 J-              | 0.000192 U              | 0.000623 U              | 0.00165 U               | 0.000179 U              | 0.000623 U              | 0.000191 U              |
| 1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)               | 0.0102 U                | 0.00106 UJ              | 0.0048 U                | 0.011 U                 | 0.00133 U               | 0.00433 U               | 0.0115 U                | 0.00125 U               | 0.00433 U               | 0.00133 U               |
| 1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)               | 0.234                   | 0.000653 UJ             | 0.00295 U               | 0.00675 U               | 0.000818 U              | 0.00266 U               | 0.00704 U               | 0.000764 U              | 0.00266 U               | 0.000814 U              |
| 1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)               | 0.906                   | 0.000645 UJ             | 0.00291 U               | 0.00638 J               | 0.000808 U              | 0.00134 J               | 0.00696 U               | 0.000755 U              | 0.00262 U               | 0.000804 U              |
| Perfluorooctane sulfonamide (PFOSA)                                | 0.204                   | 0.000129 U              | 0.000582 U              | 0.0495                  | 0.000162 U              | 0.0105                  | 0.00691                 | 0.000151 U              | 0.000525 U              | 0.000161 U              |
| N-methyl perfluorooctanesulfonamide (NMeFOSA)                      | 0.000769 U              | 0.00008 U               | 0.000364 U              | 0.000833 U              | 0.000101 U              | 0.000328 U              | 0.00087 U               | 0.000094 U              | 0.000328 U              | 0.000101 U              |
| N-ethyl perfluorooctanesulfonamide (NEtFOSA)                       | 0.00262 U               | 0.000274 U              | 0.00124 U               | 0.00235 J               | 0.000343 U              | 0.00111 UJ              | 0.00661                 | 0.000321 U              | 0.00111 U               | 0.00037 J               |
| N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)          | 0.0603                  | 0.000298 U              | 0.00135 U               | 0.00308 U               | 0.000374 U              | 0.00121 U               | 0.00322 U               | 0.000349 U              | 0.00121 U               | 0.000372 U              |
| N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)           | 0.0353                  | 0.000306 U              | 0.00138 U               | 0.00317 U               | 0.000384 U              | 0.00125 U               | 0.0033 U                | 0.000358 U              | 0.00125 U               | 0.000382 U              |
| N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)               | 0.0147 U                | 0.00154 U               | 0.00695 U               | 0.0159 U                | 0.00193 U               | 0.00626 U               | 0.0166 U                | 0.0018 U                | 0.00626 U               | 0.00192 U               |
| N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)                | 0.00882 J               | 0.00161 U               | 0.00727 U               | 0.0167 U                | 0.00202 U               | 0 R                     | 0.02 J                  | 0.00189 U               | 0.00656 U               | 0.00201 U               |
| Hexafluoropropylene oxide dimer acid (HFPO-DA)                     | 0.00892 UJ              | 0 R                     | 0.00422 U               | 0.00967 UJ              | 0.00117 U               | 0.0038 U                | 0.0101 U                | 0.00109 U               | 0.0038 U                | 0.00117 U               |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA)                        | 0.00692 UJ              | 0 R                     | 0.00327 U               | 0.0075 UJ               | 0.000909 U              | 0.00295 U               | 0.00783 U               | 0.000849 U              | 0.00295 U               | 0.000905 U              |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                          | 0.00531 UJ              | 0 R                     | 0.00251 U               | 0.00575 UJ              | 0.000697 U              | 0.00226 U               | 0.006 U                 | 0.000651 U              | 0.00226 U               | 0.000693 U              |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                           | 0.00415 UJ              | 0 R                     | 0.00196 U               | 0.0045 UJ               | 0.000545 U              | 0.00177 U               | 0.0047 U                | 0.000509 U              | 0.00177 U               | 0.000543 U              |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)                         | 0.00162 UJ              | 0 R                     | 0.000764 U              | 0.00175 UJ              | 0.000212 U              | 0.000689 U              | 0.00183 U               | 0.000198 U              | 0.000689 U              | 0.000211 U              |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)    | 0.00962 UJ              | 0 R                     | 0.00455 U               | 0.0104 UJ               | 0.00126 U               | 0.0041 U                | 0.0109 U                | 0.00118 U               | 0.0041 U                | 0.00126 U               |
| 11-Chlororeicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) | 0.00915 UJ              | 0 R                     | 0.00433 U               | 0.00992 UJ              | 0.0012 U                | 0.0039 U                | 0.0103 U                | 0.00112 U               | 0.0039 U                | 0.0012 U                |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)                   | 0.00269 UJ              | 0 R                     | 0.00127 U               | 0.00292 UJ              | 0.000354 U              | 0.00115 U               | 0.00304 U               | 0.00033 U               | 0.00115 U               | 0.000352 U              |
| 3-Perfluoropropyl propanoic acid (3:3FTCA)                         | 2.19 J-                 | 0 R                     | 0.00178 U               | 0.012 J                 | 0.000495 U              | 0.00161 U               | 0.00826 J               | 0.000462 U              | 0.00161 U               | 0.000492 U              |
| 2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)                       | 34.3 J                  | 0 R                     | 0.0249 U                | 0.17 J+                 | 0.00691 U               | 0.0224 U                | 0.0629 J                | 0.00645 U               | 0.0224 U                | 0.00687 U               |
| 3-Perfluoroheptyl propanoic acid (7:3FTCA)                         | 29.1 J                  | 0 R                     | 0.0215 J                | 0.345 J+                | 0.00374 U               | 0.0121 U                | 0.0292 J                | 0.00349 U               | 0.0121 U                | 0.00372 U               |

Notes  
There are no applicable screening levels for ecological tissue.  
See Table 1-1 for notes.

Table 4-11  
Ecological Risk Assessment Tissue PFAS Analytical Results

PFAS CERCLA Remedial Investigation Site Characterization Summary Report  
Former Loring Air Force Base  
Limestone, ME

| Category:                                                           | Terrestrial             |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |
|---------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Drainage/Area:                                                      | BIOM                    | BION                    |                         |                         |                         | BIOO                    |                         | BIOP                    |                         |                         | BIOQ                    | Terrestrial BIOQ        |
| Location ID:                                                        | E-T-BIOM_PLT01          | E-T-BION_INV01          | E-T-BION_PLT01          | E-T-BION_RNT01          | E-T-BIOO_INV01          | E-T-BIOO_PLT01          | E-T-BIOP_INV01          | E-T-BIOP_PLT01          | E-T-BIOP_RNT01          | E-T-BIOQ_INV01          | E-T-BIOQ_PLT01          | E-T-BIOQ_RNT01          |
| Sample ID:                                                          | E-T-BIOM_PLT01_20240815 | E-T-BION_INV01_20240814 | E-T-BION_PLT01_20240814 | E-T-BION_RNT01_20240813 | E-T-BIOO_INV01_20240814 | E-T-BIOO_PLT01_20240814 | E-T-BIOP_INV01_20240910 | E-T-BIOP_PLT01_20240910 | E-T-BIOP_RNT01_20240911 | E-T-BIOQ_INV01_20240816 | E-T-BIOQ_PLT01_20240816 | E-T-BIOQ_RNT01_20240816 |
| Sample Date:                                                        | 8/15/2024               | 8/14/2024               | 8/14/2024               | 8/13/2024               | 8/14/2024               | 8/14/2024               | 9/10/2024               | 9/10/2024               | 9/11/2024               | 8/16/2024               | 8/16/2024               | 8/16/2024               |
| Sample Depth (ft bgs):                                              | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               | 0.00-0.00               |
| Sample Type:                                                        | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       | N                       |
| Latitude:                                                           | 46.92810337             | 46.92488606             | 46.9248723              | 46.92489819             | 46.9222403              | 46.92204398             | 46.94334073             | 46.94328758             | 46.94332                | 46.95759262             | 46.9574104              | 46.95731597             |
| Longitude:                                                          | -67.87728556            | -67.89584708            | -67.89586499            | -67.89514369            | -67.89855138            | -67.89857185            | -67.90939259            | -67.90944221            | -67.90957               | -67.88396766            | -67.88423339            | -67.88423485            |
| Analyte                                                             | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   | mg/kg                   |
| Perfluorobutanoic acid (PFBA)                                       | 0.000659 U              | 0.017                   | 0.000658 J              | 0.0019 U                | 0.00726 J               | 0.000562 J              | 0.00122 J               | 0.00155 J+              | 0.0019 U                | 0.00806 J               | 0.00106 J               | 0.00127 J               |
| Perfluoropentanoic acid (PFPeA)                                     | 0.000635 UJ             | 0.0213                  | 0.00853                 | 0.00183 UJ              | 0.00386 U               | 0.00874 U               | 0.000893 J              | 0.000507 UJ             | 0.00183 U               | 0.014                   | 0 R                     | 0.0032                  |
| Perfluorohexanoic acid (PFHxA)                                      | 0.000435 UJ             | 0.00948                 | 0.000379 U              | 0.00125 UJ              | 0.00955                 | 0.000507 U              | 0.000366 UJ             | 0.000347 UJ             | 0.00125 U               | 0.00822                 | 0 R                     | 0.00135 U               |
| Perfluoroheptanoic acid (PFHpA)                                     | 0.000412 UJ             | 0.00241 UJ              | 0.000359 U              | 0.00119 UJ              | 0.0025 UJ               | 0.000479 U              | 0.000347 UJ             | 0.000329 UJ             | 0.00119 U               | 0.00292 UJ              | 0 R                     | 0.00127 U               |
| Perfluorooctanoic acid (PFOA)                                       | 0.000294 U              | 0.0156                  | 0.000256 UJ             | 0.000847 U              | 0.0113                  | 0.000342 U              | 0.000545                | 0.000235 UJ             | 0.000847 U              | 0.00968                 | 0.000217 U              | 0.00625                 |
| Perfluorononanoic acid (PFNA)                                       | 0.000424 U              | 0.00728                 | 0.000369 U              | 0.00122 U               | 0.0186                  | 0.000493 U              | 0.000478                | 0.000338 UJ             | 0.00122 U               | 0.00446                 | 0.000313 U              | 0.00253                 |
| Perfluorodecanoic acid (PFDA)                                       | 0.000459 U              | 0.00423                 | 0.0004 U                | 0.00132 U               | 0.00349                 | 0.000534 U              | 0.000339 J              | 0.000366 UJ             | 0.00132 U               | 0.00203 J               | 0.000339 U              | 0.00142 U               |
| Perfluoroundecanoic acid (PFUnA)                                    | 0.000353 U              | 0.0101                  | 0.000308 U              | 0.00102 U               | 0.00745                 | 0.000411 U              | 0.00111                 | 0.000282 UJ             | 0.00102 U               | 0.00424                 | 0.000261 U              | 0.00109 U               |
| Perfluorododecanoic acid (PFDoA)                                    | 0.000282 U              | 0.00572                 | 0.000246 U              | 0.000814 U              | 0.00794                 | 0.000329 UJ             | 0.000725                | 0.000329 UJ             | 0.000814 U              | 0.00309 J               | 0.000209 U              | 0.000873 U              |
| Perfluorotridecanoic acid (PFTrDA)                                  | 0.000459 U              | 0.0144                  | 0.0004 U                | 0.00132 U               | 0.0256                  | 0.000534 UJ             | 0.00375                 | 0.000366 UJ             | 0.00132 U               | 0.0154                  | 0.000339 U              | 0.00142 U               |
| Perfluorotetradecanoic acid (PFTeDA)                                | 0.000365 U              | 0.00214 U               | 0.000318 U              | 0.00105 U               | 0.00883                 | 0.000425 U              | 0.000928                | 0.000291 UJ             | 0.00105 U               | 0.00258 U               | 0.00027 U               | 0.00113 U               |
| Perfluorobutanesulfonic acid (PFBS)                                 | 0.0004 U                | 0.00234 U               | 0.000349 U              | 0.00115 U               | 0.00243 U               | 0.000466 U              | 0.000337 U              | 0.000319 UJ             | 0.00115 U               | 0.00283 U               | 0.000296 U              | 0.00124 U               |
| Perfluoropentanesulfonic acid (PFPeS)                               | 0.000235 U              | 0.00138 U               | 0.000205 U              | 0.000678 U              | 0.00143 U               | 0.000274 U              | 0.000198 U              | 0.000188 UJ             | 0.000678 U              | 0.00167 U               | 0.000174 U              | 0.000727 U              |
| Perfluorohexanesulfonic acid (PFHxS)                                | 0.000353 U              | 0.109                   | 0.000308 U              | 0.00102 U               | 0.00699                 | 0.000411 U              | 0.00226                 | 0.000282 UJ             | 0.00102 U               | 0.104                   | 0.000261 U              | 0.0383                  |
| Perfluoroheptanesulfonic acid (PFHpS)                               | 0.000412 U              | 0.00407                 | 0.000359 U              | 0.00119 U               | 0.0025 U                | 0.000479 U              | 0.000424                | 0.000329 UJ             | 0.00119 U               | 0.00495                 | 0.000304 U              | 0.00294                 |
| Perfluorooctanesulfonic acid (PFOS)                                 | 0.000459 U              | 0.472                   | 0.0004 U                | 0.0353                  | 0.0294                  | 0.000534 U              | 0.0386                  | 0.00018 J               | 0.0255                  | 0.373                   | 0.000339 U              | 0.0694                  |
| Perfluorononanesulfonic acid (PFNS)                                 | 0.000465 U              | 0.00702                 | 0.000405 U              | 0.00134 U               | 0.00282 U               | 0.000541 U              | 0.000391 U              | 0.000371 U              | 0.00109 J               | 0.00329 U               | 0.000343 U              | 0.00144 U               |
| Perfluorodecanesulfonic acid (PFDS)                                 | 0.000388 U              | 0.00614                 | 0.000338 U              | 0.00112 U               | 0.00236 U               | 0.000452 U              | 0.000322 J              | 0.00031 U               | 0.00112 U               | 0.00275 U               | 0.000287 U              | 0.0012 U                |
| Perfluorododecanesulfonic acid (PFDoS)                              | 0.000224 U              | 0.00934                 | 0.000195 U              | 0.00026 U               | 0.000647 J              | 0.00136 U               | 0.000188 U              | 0.000178 U              | 0.000644 U              | 0.00109 J               | 0.000165 U              | 0.000691 U              |
| 1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)                | 0.00155 U               | 0.0091 U                | 0.00135 U               | 0.00447 U               | 0.00943 U               | 0.00181 U               | 0.00131 U               | 0.00124 UJ              | 0.00447 U               | 0.011 U                 | 0.00115 U               | 0.0048 U                |
| 1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)                | 0.000953 U              | 0.0425                  | 0.000831 U              | 0.00275 U               | 0.00579 U               | 0.00111 U               | 0.000802 U              | 0.000761 UJ             | 0.00275 U               | 0.00675 U               | 0.000704 U              | 0.00295 U               |
| 1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)                | 0.000941 U              | 0.161                   | 0.000821 U              | 0.00271 U               | 0.00571 U               | 0.0011 U                | 0.000792 U              | 0.000751 UJ             | 0.00271 U               | 0.0142                  | 0.000696 U              | 0.00291 U               |
| Perfluorooctane sulfonamide (PFOSA)                                 | 0.000188 U              | 0.0044                  | 0.000164 U              | 0.000542 U              | 0.206                   | 0.000219 UJ             | 0.00124                 | 0.00015 U               | 0.000542 U              | 0.00133 U               | 0.000139 U              | 0.000582 U              |
| N-methyl perfluorooctanesulfonamide (NMeFOSA)                       | 0.000118 U              | 0.00069 U               | 0.000103 U              | 0.000339 U              | 0.146                   | 0.000137 U              | 0.00065                 | 0.000093 U              | 0.000339 U              | 0.000833 U              | 0.000087 U              | 0.000364 U              |
| N-ethyl perfluorooctanesulfonamide (NEtFOSA)                        | 0.0004 U                | 0.00216 J               | 0.000349 U              | 0.00115 U               | 0.425                   | 0.000466 U              | 0.00206                 | 0.000319 U              | 0.00115 U               | 0.00245 J               | 0.000296 U              | 0.00124 U               |
| N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)           | 0.000435 U              | 0.00255 U               | 0.000379 U              | 0.00125 U               | 0.00264 U               | 0.000507 U              | 0.000366 U              | 0.000347 U              | 0.00125 U               | 0.00308 U               | 0.000322 U              | 0.00135 U               |
| N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)            | 0.000447 U              | 0.00262 U               | 0.00039 U               | 0.00129 U               | 0.00901                 | 0.000521 U              | 0.000376 U              | 0.000357 U              | 0.00129 U               | 0.00317 U               | 0.00033 U               | 0.00138 U               |
| N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)                | 0.00225 U               | 0.0132 U                | 0.00196 U               | 0.00647 U               | 0.167                   | 0.00262 U               | 0.00189 U               | 0.00179 U               | 0.00647 U               | 0.0159 U                | 0.00166 U               | 0.00695 U               |
| N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)                 | 0.00235 U               | 0.00724 J               | 0.00205 U               | 0 R                     | 0.296                   | 0.00274 U               | 0.00198 U               | 0.00188 U               | 0.00678 U               | 0.0167 U                | 0.00174 U               | 0.00727 U               |
| Hexafluoropropylene oxide dimer acid (HFPO-DA)                      | 0.00136 UJ              | 0.008 U                 | 0.00119 U               | 0.00393 UJ              | 0.00829 U               | 0.00159 U               | 0.00115 UJ              | 0.00109 UJ              | 0.00393 UJ              | 0.00967 U               | 0 R                     | 0.00422 U               |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA)                         | 0.00106 UJ              | 0.00621 U               | 0.000923 U              | 0.00305 UJ              | 0.00643 U               | 0.00123 U               | 0.000891 UJ             | 0.000845 UJ             | 0.00305 U               | 0.0075 U                | 0 R                     | 0.00327 U               |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                           | 0.000812 UJ             | 0.00476 U               | 0.000708 U              | 0.00234 UJ              | 0.00493 U               | 0.000945 U              | 0.000683 UJ             | 0.000648 UJ             | 0.00234 U               | 0.00575 U               | 0 R                     | 0.00251 U               |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                            | 0.000635 UJ             | 0.00372 U               | 0.000554 U              | 0.00183 UJ              | 0.00386 U               | 0.00074 U               | 0.000535 UJ             | 0.000507 UJ             | 0.00183 U               | 0.0045 U                | 0 R                     | 0.00196 U               |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)                          | 0.000247 UJ             | 0.00145 U               | 0.000215 U              | 0.000712 UJ             | 0.0015 U                | 0.000288 U              | 0.000208 UJ             | 0.000197 UJ             | 0.000712 U              | 0.00175 U               | 0 R                     | 0.000764 U              |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)     | 0.00147 UJ              | 0.00862 U               | 0.00128 U               | 0.00424 UJ              | 0.00893 U               | 0.00171 U               | 0.00124 UJ              | 0.00117 UJ              | 0.00424 U               | 0.0104 U                | 0 R                     | 0.00455 U               |
| 11-Chlororeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUDS) | 0.0014 UJ               | 0.00821 U               | 0.00122 U               | 0.00403 UJ              | 0.0085 U                | 0.00163 U               | 0.00118 UJ              | 0.00112 UJ              | 0.00403 U               | 0.00992 U               | 0 R                     | 0.00433 U               |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)                     | 0.000412 UJ             | 0.00241 U               | 0.000359 U              | 0.00119 UJ              | 0.0025 U                | 0.000479 U              | 0.000347 UJ             | 0.000329 UJ             | 0.00119 U               | 0.00292 U               | 0 R                     | 0.00127 U               |
| 3-Perfluoropropyl propanoic acid (3:3FTCA)                          | 0.000576 UJ             | 0.0344                  | 0.000503 U              | 0.00166 UJ              | 0.0035 U                | 0.000671 U              | 0.000485 UJ             | 0.00046 UJ              | 0.00166 U               | 0.0325                  | 0 R                     | 0.00178 U               |
| 2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)                        | 0.00805 UJ              | 0.228                   | 0.00702 U               | 0.0232 UJ               | 0.051 J                 | 0.00937 U               | 0.00677 UJ              | 0.00642 UJ              | 0.0232 U                | 0.11                    | 0 R                     | 0.0249 U                |
| 3-Perfluoroheptyl propanoic acid (7:3FTCA)                          | 0.00435 UJ              | 0.32                    | 0.00379 U               | 0.0125 UJ               | 0.0366 J                | 0.00507 U               | 0.00408 J               | 0.00347 UJ              | 0.0125 U                | 0.0916                  | 0 R                     | 0.0135 U                |

Notes  
There are no applicable screening levels for ecological tissue.  
See Table 1-1 for notes.