

**NOTE:** Summary Statistics are not provided because only 1 sample was collected annually per location for River and Stream Sediment.

**NOTE:** "Sig" is significance, with "Yes" meaning detectable and "No" meaning less than the analytical method detection limit. If the uncertainty (standard deviation) is large, the significance may also be set to "No".

**NOTE:** Samples marked by "\*" were analyzed by GEL laboratories. All others were analyzed by SRS laboratories.

**Data Table 5-24 Radioactivity in Sediment**  
**Sample Measurement Section**  
**2014 Radioactivity in River and Stream Sediment : Units are pCi/g**

| Location                          | Nuclide | CollectDate | SampleCon | SampleStd | Sig |
|-----------------------------------|---------|-------------|-----------|-----------|-----|
| <b>Savannah River</b>             |         |             |           |           |     |
| RM-118.7 Highway 301              | Co-60   | 7-May-14    | 1.89E-02  | 1.36E-02  | No  |
| RM-129 Lower 3 Runs Mouth         | Co-60   | 7-May-14    | 1.70E-02  | 1.34E-02  | No  |
| RM-134.0 Below Little Hell Lnd    | Co-60   | 8-May-14    | 1.46E-02  | 1.75E-02  | No  |
| RM-150.2 Below Four Mile Creek    | Co-60   | 8-May-14    | -1.38E-02 | 1.17E-02  | No  |
| RM-151 R-3A Above Vogle           | Co-60   | 8-May-14    | -1.87E-03 | 1.30E-02  | No  |
| RM-152.1 Beaver Dam Creek         | Co-60   | 7-May-14    | 2.70E-03  | 1.32E-02  | No  |
| RM-157.2 Upper 3 Runs Mouth       | Co-60   | 7-May-14    | -8.62E-03 | 1.15E-02  | No  |
| RM-160.5 Demier Landing           | Co-60   | 8-May-14    | 2.03E-02  | 1.40E-02  | No  |
| <b>SRS Streams</b>                |         |             |           |           |     |
| E-05                              | Co-60   | 28-Apr-14   | -7.65E-03 | 1.02E-02  | No  |
| E-06                              | Co-60   | 28-Apr-14   | -7.22E-05 | 1.19E-02  | No  |
| EAV Basin North (E-004)           | Co-60   | 28-Apr-14   | -3.62E-04 | 1.47E-02  | No  |
| EAV Basin South (E-003)           | Co-60   | 27-Feb-14   | 3.89E-03  | 1.16E-02  | No  |
| FM-2 at Road 4                    | Co-60   | 1-May-14    | 5.92E-03  | 9.86E-03  | No  |
| FM-3A Below F-Area Effluent       | Co-60   | 10-Mar-14   | -6.81E-03 | 1.13E-02  | No  |
| Four Mile A-7A (Beaver Pond)      | Co-60   | 1-May-14    | 7.32E-03  | 7.20E-03  | No  |
| Four Mile Creek Swamp Dischrg     | Co-60   | 22-May-14   | 1.03E-02  | 8.04E-03  | No  |
| Four Mile Creek at Road A-7       | Co-60   | 1-May-14    | 8.95E-03  | 9.48E-03  | No  |
| L3R-1A at Road B                  | Co-60   | 28-Apr-14   | -4.57E-03 | 9.78E-03  | No  |
| McQueen Branch below Z-Basin      | Co-60   | 12-May-14   | -1.51E-02 | 8.41E-03  | No  |
| POND 400                          | Co-60   | 12-Mar-14   | 1.57E-03  | 1.48E-02  | No  |
| Pen Branch Swamp Discharge        | Co-60   | 22-May-14   | -7.68E-03 | 2.14E-02  | No  |
| R-Area Downstream of R-1          | Co-60   | 1-May-14    | 5.16E-02  | 1.83E-02  | Yes |
| SC-2A 1 mile above Road B         | Co-60   | 1-May-14    | 1.55E-02  | 1.03E-02  | No  |
| SC-4 Steel Creek at Road A        | Co-60   | 29-Apr-14   | -3.32E-03 | 6.94E-03  | No  |
| SWDF Basin North (E-002)          | Co-60   | 27-Feb-14   | 8.32E-03  | 7.08E-03  | No  |
| SWDF Basin South (E-001)          | Co-60   | 27-Feb-14   | -1.05E-02 | 7.73E-03  | No  |
| TB-5 Near Road C                  | Co-60   | 27-Feb-14   | -8.57E-03 | 9.28E-03  | No  |
| Tinker Creek 1                    | Co-60   | 27-Feb-14   | 1.44E-03  | 8.96E-03  | No  |
| U3R-1A Treadway Bridge RD 8-1     | Co-60   | 10-Mar-14   | -1.06E-02 | 1.50E-02  | No  |
| Z-Basin*                          | Co-60   | 12-May-14   | 2.59E-03  | 1.11E-02  | No  |
| Z-01 Outfall*                     | Co-60   | 12-May-14   | 3.89E-03  | 1.18E-02  | No  |
| McQueens Branch Monroe Owens Road | Co-60   | 28-Apr-14   | 6.86E-03  | 1.42E-02  | No  |
| Pen Branch at Road 125            | Co-60   | 28-Apr-14   | 1.59E-02  | 1.52E-02  | No  |

**2014 Radioactivity in River and Stream Sediment : Units are pCi/g**

| Location                          | Nuclide | CollectDate | SampleCon | SampleStd | Sig |
|-----------------------------------|---------|-------------|-----------|-----------|-----|
| FMC at Road 125                   | Co-60   | 28-Apr-14   | 1.21E-02  | 8.09E-03  | No  |
| U3R at Rd C                       | Co-60   | 28-Apr-14   | 1.75E-02  | 1.04E-02  | No  |
| <b>Savannah River</b>             |         |             |           |           |     |
| RM-118.7 Highway 301              | Cs-137  | 7-May-14    | 2.18E-01  | 2.65E-02  | Yes |
| RM-129 Lower 3 Runs Mouth         | Cs-137  | 7-May-14    | 2.09E-01  | 2.77E-02  | Yes |
| RM-134.0 Below Little Hell Lnd    | Cs-137  | 8-May-14    | 2.43E-01  | 3.03E-02  | Yes |
| RM-150.2 Below Four Mile Creek    | Cs-137  | 8-May-14    | 2.84E-02  | 1.30E-02  | No  |
| RM-151 R-3A Above Vogle           | Cs-137  | 8-May-14    | 5.27E-02  | 1.86E-02  | Yes |
| RM-152.1 Beaver Dam Creek         | Cs-137  | 7-May-14    | 4.11E-02  | 1.72E-02  | No  |
| RM-157.2 Upper 3 Runs Mouth       | Cs-137  | 7-May-14    | 1.04E-01  | 1.88E-02  | Yes |
| RM-160.5 Demier Landing           | Cs-137  | 8-May-14    | 6.46E-02  | 2.28E-02  | Yes |
| <b>SRS Streams</b>                |         |             |           |           |     |
| E-05                              | Cs-137  | 28-Apr-14   | 3.62E-02  | 1.35E-02  | No  |
| E-06                              | Cs-137  | 28-Apr-14   | 7.59E-02  | 2.52E-02  | Yes |
| EAV Basin North (E-004)           | Cs-137  | 28-Apr-14   | 5.65E-03  | 1.66E-02  | No  |
| EAV Basin South (E-003)           | Cs-137  | 27-Feb-14   | 2.41E-02  | 1.51E-02  | No  |
| FM-2 at Road 4                    | Cs-137  | 1-May-14    | 2.32E+01  | 1.50E+00  | Yes |
| FM-3A Below F-Area Effluent       | Cs-137  | 10-Mar-14   | 2.51E-01  | 2.94E-02  | Yes |
| Four Mile A-7A (Beaver Pond)      | Cs-137  | 1-May-14    | 1.18E+00  | 8.35E-02  | Yes |
| Four Mile Creek Swamp Dischrg     | Cs-137  | 22-May-14   | 1.67E+00  | 1.14E-01  | Yes |
| Four Mile Creek at Road A-7       | Cs-137  | 1-May-14    | 2.03E+00  | 1.38E-01  | Yes |
| L3R-1A at Road B                  | Cs-137  | 28-Apr-14   | 4.92E-01  | 4.25E-02  | Yes |
| McQueen Branch below Z-Basin      | Cs-137  | 12-May-14   | -9.73E-03 | 1.09E-02  | No  |
| POND 400                          | Cs-137  | 12-Mar-14   | 3.16E-01  | 3.40E-02  | Yes |
| Pen Branch Swamp Discharge        | Cs-137  | 22-May-14   | 6.35E-01  | 6.24E-02  | Yes |
| R-Area Downstream of R-1          | Cs-137  | 1-May-14    | 1.08E+02  | 6.94E+00  | Yes |
| SC-2A 1 mile above Road B         | Cs-137  | 1-May-14    | 2.59E+00  | 1.73E-01  | Yes |
| SC-4 Steel Creek at Road A        | Cs-137  | 29-Apr-14   | 2.08E-01  | 2.52E-02  | Yes |
| SWDF Basin North (E-002)          | Cs-137  | 27-Feb-14   | 1.81E-02  | 8.80E-03  | No  |
| SWDF Basin South (E-001)          | Cs-137  | 27-Feb-14   | 7.70E-02  | 1.55E-02  | Yes |
| TB-5 Near Road C                  | Cs-137  | 27-Feb-14   | 7.92E-03  | 1.32E-02  | No  |
| Tinker Creek 1                    | Cs-137  | 27-Feb-14   | 3.00E-02  | 1.26E-02  | No  |
| U3R-1A Treadway Bridge RD 8-1     | Cs-137  | 10-Mar-14   | 9.84E-02  | 2.60E-02  | Yes |
| Z-Basin*                          | Cs-137  | 13-May-14   | 1.50E+03  | 1.08E+00  | Yes |
| Z-01 Outfall*                     | Cs-137  | 13-May-14   | 2.65E+02  | 5.53E-01  | Yes |
| McQueens Branch Monroe Owens Road | Cs-137  | 28-Apr-14   | 2.76E-01  | 3.14E-02  | Yes |
| Pen Branch at Road 125            | Cs-137  | 28-Apr-14   | 9.14E-02  | 2.44E-02  | Yes |
| FMC @ Road 125                    | Cs-137  | 28-Apr-14   | 9.86E-01  | 7.02E-02  | Yes |
| U3R at Rd C                       | Cs-137  | 28-Apr-14   | 3.37E-02  | 1.28E-02  | No  |

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| Location                          | Nuclide  | CollectDate | SampleCon | SampleStd | Sig |
|-----------------------------------|----------|-------------|-----------|-----------|-----|
| <b>Savannah River</b>             |          |             |           |           |     |
| RM-118.7 Highway 301              | Sr-89/90 | 7-May-14    | 6.03E-04  | 2.25E-02  | No  |
| RM-129 Lower 3 Runs Mouth         | Sr-89/90 | 7-May-14    | 4.24E-02  | 4.78E-02  | No  |
| RM-134.0 Below Little Hell Lnd    | Sr-89/90 | 8-May-14    | 1.01E-01  | 2.85E-02  | Yes |
| RM-150.2 Below Four Mile Creek    | Sr-89/90 | 8-May-14    | 3.05E-02  | 2.45E-02  | No  |
| RM-151 R-3A Above Vogle           | Sr-89/90 | 8-May-14    | 2.76E-02  | 2.21E-02  | No  |
| RM-152.1 Beaver Dam Creek         | Sr-89/90 | 7-May-14    | 6.65E-02  | 6.19E-02  | No  |
| RM-157.2 Upper 3 Runs Mouth       | Sr-89/90 | 7-May-14    | 5.00E-02  | 4.70E-02  | No  |
| RM-160.5 Demier Landing           | Sr-89/90 | 8-May-14    | 9.68E-02  | 1.71E-02  | Yes |
| <b>SRS Streams</b>                |          |             |           |           |     |
| E-05                              | Sr-89/90 | 28-Apr-14   | 1.05E-01  | 8.45E-02  | No  |
| E-06                              | Sr-89/90 | 28-Apr-14   | -1.02E-02 | 2.59E-02  | No  |
| EAV Basin North (E-004)           | Sr-89/90 | 28-Apr-14   | 2.92E-02  | 6.93E-02  | No  |
| EAV Basin South (E-003)           | Sr-89/90 | 27-Feb-14   | 3.65E-02  | 2.54E-02  | No  |
| FM-2 at Road 4                    | Sr-89/90 | 1-May-14    | 1.98E-01  | 3.03E-02  | Yes |
| FM-3A Below F-Area Effluent       | Sr-89/90 | 10-Mar-14   | 8.86E-02  | 3.40E-02  | No  |
| Four Mile A-7A (Beaver Pond)      | Sr-89/90 | 1-May-14    | 9.30E-02  | 7.13E-02  | No  |
| Four Mile Creek Swamp Dischrg     | Sr-89/90 | 22-May-14   | -2.60E-02 | 4.25E-02  | No  |
| Four Mile Creek at Road A-7       | Sr-89/90 | 1-May-14    | 1.44E-01  | 2.65E-02  | Yes |
| L3R-1A at Road B                  | Sr-89/90 | 28-Apr-14   | -5.78E-02 | 4.72E-02  | No  |
| POND 400                          | Sr-89/90 | 12-Mar-14   | 1.10E-01  | 2.72E-02  | Yes |
| Pen Branch Swamp Discharge        | Sr-89/90 | 22-May-14   | 1.08E-02  | 5.47E-02  | No  |
| R-Area Downstream of R-1          | Sr-89/90 | 1-May-14    | 2.53E-01  | 6.64E-02  | Yes |
| SC-2A 1 mile above Road B         | Sr-89/90 | 1-May-14    | 7.65E-02  | 2.86E-02  | No  |
| SC-4 Steel Creek at Road A        | Sr-89/90 | 29-Apr-14   | 1.79E-01  | 6.63E-02  | Yes |
| SWDF Basin North (E-002)          | Sr-89/90 | 27-Feb-14   | 7.46E-02  | 5.36E-02  | No  |
| SWDF Basin South (E-001)          | Sr-89/90 | 27-Feb-14   | 9.54E-02  | 5.28E-02  | No  |
| TB-5 Near Road C                  | Sr-89/90 | 27-Feb-14   | -2.14E-02 | 4.98E-02  | No  |
| Tinker Creek 1                    | Sr-89/90 | 27-Feb-14   | 9.22E-02  | 6.06E-02  | No  |
| U3R-1A Treadway Bridge RD 8-1     | Sr-89/90 | 10-Mar-14   | 4.38E-02  | 5.13E-02  | No  |
| Z-Basin*                          | Sr-89/90 | 13-May-14   | 8.42E-02  | 3.59E-02  | J   |
| Z-01 Outfall*                     | Sr-89/90 | 12-May-14   | 9.50E-02  | 3.67E-02  | J   |
| McQueens Branch Monroe Owens Road | Sr-89/90 | 28-Apr-14   | 1.97E-01  | 5.78E-02  | Yes |
| Pen Branch at Rd 125              | Sr-89/90 | 28-Apr-14   | 6.64E-02  | 4.32E-02  | No  |
| FMC @ Road 125                    | Sr-89/90 | 28-Apr-14   | 1.21E-01  | 4.65E-02  | No  |
| U3R at Rd C                       | Sr-89/90 | 28-Apr-14   | -8.04E-03 | 2.17E-02  | No  |
| <b>Savannah River</b>             |          |             |           |           |     |
| RM-118.7 Highway 301              | Th-228   | 7-May-14    | 1.92E+00  | 1.59E-01  | Yes |
| RM-129 Lower 3 Runs Mouth         | Th-228   | 7-May-14    | 1.86E+00  | 1.51E-01  | Yes |
| RM-134.0 Below Little Hell Lnd    | Th-228   | 8-May-14    | 1.88E+00  | 1.50E-01  | Yes |
| RM-150.2 Below Four Mile Creek    | Th-228   | 8-May-14    | 1.38E+00  | 1.09E-01  | Yes |
| RM-151 R-3A Above Vogle           | Th-228   | 8-May-14    | 2.15E+00  | 1.73E-01  | Yes |

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| Location                          | Nuclide | CollectDate | SampleCon | SampleStd | Sig |
|-----------------------------------|---------|-------------|-----------|-----------|-----|
| RM-152.1 Beaver Dam Creek         | Th-228  | 7-May-14    | 1.39E+00  | 1.09E-01  | Yes |
| RM-157.2 Upper 3 Runs Mouth       | Th-228  | 7-May-14    | 1.86E+00  | 1.57E-01  | Yes |
| RM-160.5 Demier Landing           | Th-228  | 8-May-14    | 1.82E+00  | 1.45E-01  | Yes |
| <b>SRS Streams</b>                |         |             |           |           |     |
| E-05                              | Th-228  | 28-Apr-14   | 1.54E+00  | 1.32E-01  | Yes |
| E-06                              | Th-228  | 28-Apr-14   | 2.14E+00  | 1.85E-01  | Yes |
| EAV Basin North (E-004)           | Th-228  | 28-Apr-14   | 2.54E+00  | 2.22E-01  | Yes |
| EAV Basin South (E-003)           | Th-228  | 27-Feb-14   | 2.42E+00  | 1.93E-01  | Yes |
| FM-2 at Road 4                    | Th-228  | 1-May-14    | 4.92E+00  | 3.74E-01  | Yes |
| FM-3A Below F-Area Effluent       | Th-228  | 10-Mar-14   | 1.98E+00  | 1.70E-01  | Yes |
| Four Mile A-7A (Beaver Pond)      | Th-228  | 1-May-14    | 7.84E-01  | 7.22E-02  | Yes |
| Four Mile Creek Swamp Dischrg     | Th-228  | 22-May-14   | 6.03E-01  | 6.10E-02  | Yes |
| Four Mile Creek at Road A-7       | Th-228  | 1-May-14    | 2.28E+00  | 1.76E-01  | Yes |
| L3R-1A at Road B                  | Th-228  | 28-Apr-14   | 4.14E+00  | 3.06E-01  | Yes |
| POND 400                          | Th-228  | 12-Mar-14   | 3.30E+00  | 2.42E-01  | Yes |
| Pen Branch Swamp Discharge        | Th-228  | 22-May-14   | 9.19E-01  | 8.16E-02  | Yes |
| R-Area Downstream of R-1          | Th-228  | 1-May-14    | 2.35E+00  | 1.96E-01  | Yes |
| SC-2A 1 mile above Road B         | Th-228  | 1-May-14    | 1.34E+00  | 1.15E-01  | Yes |
| SC-4 Steel Creek at Road A        | Th-228  | 29-Apr-14   | 1.00E-01  | 2.02E-02  | Yes |
| SWDF Basin North (E-002)          | Th-228  | 27-Feb-14   | 1.02E+00  | 8.59E-02  | Yes |
| SWDF Basin South (E-001)          | Th-228  | 27-Feb-14   | 1.29E+00  | 1.07E-01  | Yes |
| TB-5 Near Road C                  | Th-228  | 27-Feb-14   | 2.92E+00  | 2.16E-01  | Yes |
| Tinker Creek 1                    | Th-228  | 27-Feb-14   | 1.16E+00  | 9.74E-02  | Yes |
| U3R-1A Treadway Bridge RD 8-1     | Th-228  | 10-Mar-14   | 4.24E+00  | 3.20E-01  | Yes |
| Z-Basin*                          | Th-228  | 13-May-14   | 1.31E+00  | 2.19E-01  | yes |
| Z-01 Outfall*                     | Th-228  | 12-May-14   | 6.68E-01  | 1.51E-01  | Yes |
| McQueens Branch Monroe Owens Road | Th-228  | 28-Apr-14   | 1.93E+00  | 1.46E-01  | Yes |
| Pen Branch at Road 125            | Th-228  | 28-Apr-14   | 1.36E+00  | 1.18E-01  | Yes |
| FMC @ Road 125                    | Th-228  | 28-Apr-14   | 1.46E+00  | 1.20E-01  | Yes |
| U3R at Rd C                       | Th-228  | 28-Apr-14   | 1.84E+00  | 1.43E-01  | Yes |
| <b>Savannah River</b>             |         |             |           |           |     |
| RM-118.7 Highway 301              | Th-230  | 7-May-14    | 1.55E+00  | 1.28E-01  | Yes |
| RM-129 Lower 3 Runs Mouth         | Th-230  | 7-May-14    | 1.55E+00  | 1.28E-01  | Yes |
| RM-134.0 Below Little Hell Lnd    | Th-230  | 8-May-14    | 1.36E+00  | 1.10E-01  | Yes |
| RM-150.2 Below Four Mile Creek    | Th-230  | 8-May-14    | 1.07E+00  | 8.63E-02  | Yes |
| RM-151 R-3A Above Vogle           | Th-230  | 8-May-14    | 1.65E+00  | 1.37E-01  | Yes |
| RM-152.1 Beaver Dam Creek         | Th-230  | 7-May-14    | 9.92E-01  | 7.99E-02  | Yes |
| RM-157.2 Upper 3 Runs Mouth       | Th-230  | 7-May-14    | 1.09E+00  | 9.56E-02  | Yes |
| RM-160.5 Demier Landing           | Th-230  | 8-May-14    | 1.42E+00  | 1.14E-01  | Yes |

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| Location                          | Nuclide | CollectDate | SampleCon | SampleStd | Sig |
|-----------------------------------|---------|-------------|-----------|-----------|-----|
| <b>SRS Streams</b>                |         |             |           |           |     |
| E-05                              | Th-230  | 28-Apr-14   | 7.70E-01  | 7.23E-02  | Yes |
| E-06                              | Th-230  | 28-Apr-14   | 1.43E+00  | 1.27E-01  | Yes |
| EAV Basin North (E-004)           | Th-230  | 28-Apr-14   | 2.10E+00  | 1.84E-01  | Yes |
| EAV Basin South (E-003)           | Th-230  | 27-Feb-14   | 1.54E+00  | 1.26E-01  | Yes |
| FM-2 at Road 4                    | Th-230  | 1-May-14    | 2.28E+00  | 1.83E-01  | Yes |
| FM-3A Below F-Area Effluent       | Th-230  | 10-Mar-14   | 1.38E+00  | 1.23E-01  | Yes |
| Four Mile A-7A (Beaver Pond)      | Th-230  | 1-May-14    | 4.14E-01  | 4.27E-02  | Yes |
| Four Mile Creek Swamp Dischrg     | Th-230  | 22-May-14   | 5.65E-01  | 5.39E-02  | Yes |
| Four Mile Creek at Road A-7       | Th-230  | 1-May-14    | 1.09E+00  | 9.21E-02  | Yes |
| L3R-1A at Road B                  | Th-230  | 28-Apr-14   | 2.03E+00  | 1.56E-01  | Yes |
| POND 400                          | Th-230  | 12-Mar-14   | 1.88E+00  | 1.43E-01  | Yes |
| Pen Branch Swamp Discharge        | Th-230  | 22-May-14   | 9.19E-01  | 7.99E-02  | Yes |
| R-Area Downstream of R-1          | Th-230  | 1-May-14    | 1.41E+00  | 1.23E-01  | Yes |
| SC-2A 1 mile above Road B         | Th-230  | 1-May-14    | 7.24E-01  | 6.79E-02  | Yes |
| SC-4 Steel Creek at Road A        | Th-230  | 29-Apr-14   | 1.06E-01  | 1.57E-02  | Yes |
| SWDF Basin North (E-002)          | Th-230  | 27-Feb-14   | 7.41E-01  | 6.36E-02  | Yes |
| SWDF Basin South (E-001)          | Th-230  | 27-Feb-14   | 8.76E-01  | 7.54E-02  | Yes |
| TB-5 Near Road C                  | Th-230  | 27-Feb-14   | 1.43E+00  | 1.12E-01  | Yes |
| Tinker Creek 1                    | Th-230  | 27-Feb-14   | 7.43E-01  | 6.54E-02  | Yes |
| U3R-1A Treadway Bridge RD 8-1     | Th-230  | 10-Mar-14   | 1.32E+00  | 1.08E-01  | Yes |
| Z-Basin*                          | Th-230  | 13-May-14   | 9.99E-01  | 1.82E-01  | Yes |
| Z-01 Outfall*                     | Th-230  | 12-May-14   | 4.16E-01  | 1.19E-01  | Yes |
| McQueens Branch Monroe Owens Road | Th-230  | 28-Apr-14   | 1.88E+00  | 1.40E-01  | Yes |
| Pen Branch at Road 125            | Th-230  | 28-Apr-14   | 8.84E-01  | 7.96E-02  | Yes |
| FMC @ Road 125                    | Th-230  | 28-Apr-14   | 8.82E-01  | 7.56E-02  | Yes |
| U3R at Rd C                       | Th-230  | 28-Apr-14   | 7.81E-01  | 6.61E-02  | Yes |
| <b>Savannah River</b>             |         |             |           |           |     |
| RM-118.7 Highway 301              | Th-232  | 7-May-14    | 1.49E+00  | 1.23E-01  | Yes |
| RM-129 Lower 3 Runs Mouth         | Th-232  | 7-May-14    | 1.59E+00  | 1.30E-01  | Yes |
| RM-134.0 Below Little Hell Lnd    | Th-232  | 8-May-14    | 1.45E+00  | 1.16E-01  | Yes |
| RM-150.2 Below Four Mile Creek    | Th-232  | 8-May-14    | 1.42E+00  | 1.10E-01  | Yes |
| RM-151 R-3A Above Vogle           | Th-232  | 8-May-14    | 1.89E+00  | 1.53E-01  | Yes |
| RM-152.1 Beaver Dam Creek         | Th-232  | 7-May-14    | 1.01E+00  | 8.09E-02  | Yes |
| RM-157.2 Upper 3 Runs Mouth       | Th-232  | 7-May-14    | 1.28E+00  | 1.07E-01  | Yes |
| RM-160.5 Demier Landing           | Th-232  | 8-May-14    | 1.42E+00  | 1.14E-01  | Yes |
| <b>SRS Streams</b>                |         |             |           |           |     |
| E-05                              | Th-232  | 28-Apr-14   | 9.35E-01  | 8.42E-02  | Yes |
| E-06                              | Th-232  | 28-Apr-14   | 1.56E+00  | 1.37E-01  | Yes |
| EAV Basin North (E-004)           | Th-232  | 28-Apr-14   | 1.96E+00  | 1.73E-01  | Yes |
| EAV Basin South (E-003)           | Th-232  | 27-Feb-14   | 1.89E+00  | 1.52E-01  | Yes |
| FM-2 at Road 4                    | Th-232  | 1-May-14    | 4.05E+00  | 3.12E-01  | Yes |

**2014 Radioactivity in River and Stream Sediment : Units are pCi/g**

| Location                          | Nuclide | CollectDate | SampleCon | SampleStd | Sig |
|-----------------------------------|---------|-------------|-----------|-----------|-----|
| FM-3A Below F-Area Effluent       | Th-232  | 10-Mar-14   | 1.76E+00  | 1.51E-01  | Yes |
| Four Mile A-7A (Beaver Pond)      | Th-232  | 1-May-14    | 6.49E-01  | 5.88E-02  | Yes |
| Four Mile Creek Swamp Dischrg     | Th-232  | 22-May-14   | 4.86E-01  | 4.77E-02  | Yes |
| Four Mile Creek at Road A-7       | Th-232  | 1-May-14    | 2.04E+00  | 1.58E-01  | Yes |
| L3R-1A at Road B                  | Th-232  | 28-Apr-14   | 3.22E+00  | 2.40E-01  | Yes |
| POND 400                          | Th-232  | 12-Mar-14   | 2.97E+00  | 2.20E-01  | Yes |
| Pen Branch Swamp Discharge        | Th-232  | 22-May-14   | 8.57E-01  | 7.40E-02  | Yes |
| R-Area Downstream of R-1          | Th-232  | 1-May-14    | 1.71E+00  | 1.46E-01  | Yes |
| SC-2A 1 mile above Road B         | Th-232  | 1-May-14    | 9.76E-01  | 8.59E-02  | Yes |
| SC-4 Steel Creek at Road A        | Th-232  | 29-Apr-14   | 6.73E-02  | 1.18E-02  | Yes |
| SWDF Basin North (E-002)          | Th-232  | 27-Feb-14   | 8.05E-01  | 6.83E-02  | Yes |
| SWDF Basin South (E-001)          | Th-232  | 27-Feb-14   | 9.54E-01  | 8.13E-02  | Yes |
| TB-5 Near Road C                  | Th-232  | 27-Feb-14   | 3.03E+00  | 2.25E-01  | Yes |
| Tinker Creek 1                    | Th-232  | 27-Feb-14   | 8.92E-01  | 7.45E-02  | Yes |
| U3R-1A Treadway Bridge RD 8-1     | Th-232  | 10-Mar-14   | 1.23E+00  | 1.00E-01  | Yes |
| Z-Basin*                          | Th-232  | 13-May-14   | 1.44E+00  | 2.12E-01  | Yes |
| Z-01 Outfall*                     | Th-232  | 12-May-14   | 6.96E-01  | 1.46E-01  | Yes |
| McQueens Branch Monroe Owens Road | Th-232  | 28-Apr-14   | 1.46E+00  | 1.11E-01  | Yes |
| Pen Branch at Road 125            | Th-232  | 28-Apr-14   | 9.92E-01  | 8.74E-02  | Yes |
| FMC @ Road 125                    | Th-232  | 28-Apr-14   | 9.40E-01  | 7.95E-02  | Yes |
| U3R at Rd C                       | Th-232  | 28-Apr-14   | 1.27E+00  | 1.00E-01  | Yes |
| <b>Savannah River</b>             |         |             |           |           |     |
| RM-118.7 Highway 301              | U-234   | 7-May-14    | 1.36E+00  | 1.11E-01  | Yes |
| RM-129 Lower 3 Runs Mouth         | U-234   | 7-May-14    | 1.59E+00  | 1.38E-01  | Yes |
| RM-134.0 Below Little Hell Lnd    | U-234   | 8-May-14    | 1.30E+00  | 1.04E-01  | Yes |
| RM-150.2 Below Four Mile Creek    | U-234   | 8-May-14    | 1.01E+00  | 8.92E-02  | Yes |
| RM-151 R-3A Above Vogle           | U-234   | 8-May-14    | 1.85E+00  | 1.58E-01  | Yes |
| RM-152.1 Beaver Dam Creek         | U-234   | 7-May-14    | 1.24E+00  | 1.06E-01  | Yes |
| RM-157.2 Upper 3 Runs Mouth       | U-234   | 7-May-14    | 1.75E+00  | 1.56E-01  | Yes |
| RM-160.5 Demier Landing           | U-234   | 8-May-14    | 1.69E+00  | 1.43E-01  | Yes |
| <b>SRS Streams</b>                |         |             |           |           |     |
| E-05                              | U-234   | 28-Apr-14   | 7.35E-01  | 6.66E-02  | Yes |
| E-06                              | U-234   | 28-Apr-14   | 1.65E+00  | 1.30E-01  | Yes |
| EAV Basin North (E-004)           | U-234   | 28-Apr-14   | 1.97E+00  | 1.67E-01  | Yes |
| EAV Basin South (E-003)           | U-234   | 27-Feb-14   | 1.60E+00  | 1.30E-01  | Yes |
| FM-2 at Road 4                    | U-234   | 1-May-14    | 2.47E+00  | 2.06E-01  | Yes |
| FM-3A Below F-Area Effluent       | U-234   | 10-Mar-14   | 1.19E+00  | 1.02E-01  | Yes |
| Four Mile A-7A (Beaver Pond)      | U-234   | 1-May-14    | 6.49E-01  | 5.96E-02  | Yes |
| Four Mile Creek Swamp Dischrg     | U-234   | 22-May-14   | 5.30E-01  | 5.16E-02  | Yes |
| Four Mile Creek at Road A-7       | U-234   | 1-May-14    | 8.59E-01  | 8.28E-02  | Yes |
| L3R-1A at Road B                  | U-234   | 28-Apr-14   | 3.03E+00  | 2.30E-01  | Yes |
| McQueen Branch below Z-Basin      | U-234   | 12-May-14   | 5.81E-01  | 5.57E-02  | Yes |



**2014 Radioactivity in River and Stream Sediment : Units are pCi/g**

| Location                          | Nuclide   | CollectDate | SampleCon | SampleStd | Sig |
|-----------------------------------|-----------|-------------|-----------|-----------|-----|
| POND 400                          | U-234     | 12-Mar-14   | 2.32E+00  | 1.83E-01  | Yes |
| Pen Branch Swamp Discharge        | U-234     | 22-May-14   | 1.05E+00  | 8.76E-02  | Yes |
| R-Area Downstream of R-1          | U-234     | 1-May-14    | 1.12E+00  | 9.48E-02  | Yes |
| SC-2A 1 mile above Road B         | U-234     | 1-May-14    | 8.51E+00  | 7.35E-01  | Yes |
| SC-4 Steel Creek at Road A        | U-234     | 29-Apr-14   | 1.81E-01  | 2.44E-02  | Yes |
| SWDF Basin North (E-002)          | U-234     | 27-Feb-14   | 6.81E-01  | 6.46E-02  | Yes |
| SWDF Basin South (E-001)          | U-234     | 27-Feb-14   | 9.27E-01  | 8.10E-02  | Yes |
| TB-5 Near Road C                  | U-234     | 27-Feb-14   | 4.14E+00  | 3.16E-01  | Yes |
| Tinker Creek 1                    | U-234     | 27-Feb-14   | 1.29E+00  | 1.08E-01  | Yes |
| U3R-1A Treadway Bridge RD 8-1     | U-234     | 10-Mar-14   | 1.44E+00  | 1.17E-01  | Yes |
| Z-Basin*                          | U-233/234 | 13-May-14   | 1.03E+00  | 1.32E-01  | Yes |
| Z-01 Outfall*                     | U-233/234 | 12-May-14   | 5.41E-01  | 8.89E-02  | Yes |
| McQueens Branch Monroe Owens Road | U-234     | 28-Apr-14   | 3.70E+00  | 2.84E-01  | Yes |
| Pen Branch at Road 125            | U-234     | 28-Apr-14   | 2.82E-01  | 2.59E-02  | Yes |
| FMC @ Road 125                    | U-234     | 28-Apr-14   | 9.47E-01  | 8.62E-02  | Yes |
| U3R at Rd C                       | U-234     | 28-Apr-14   | 1.31E+00  | 1.15E-01  | Yes |
| <b>Savannah River</b>             |           |             |           |           |     |
| RM-118.7 Highway 301              | U-235     | 7-May-14    | 7.54E-02  | 1.50E-02  | Yes |
| RM-129 Lower 3 Runs Mouth         | U-235     | 7-May-14    | 8.46E-02  | 1.91E-02  | Yes |
| RM-134.0 Below Little Hell Lnd    | U-235     | 8-May-14    | 4.46E-02  | 1.10E-02  | Yes |
| RM-150.2 Below Four Mile Creek    | U-235     | 8-May-14    | 5.11E-02  | 1.24E-02  | Yes |
| RM-151 R-3A Above Vogle           | U-235     | 8-May-14    | 1.05E-01  | 2.12E-02  | Yes |
| RM-152.1 Beaver Dam Creek         | U-235     | 7-May-14    | 5.51E-02  | 1.37E-02  | Yes |
| RM-157.2 Upper 3 Runs Mouth       | U-235     | 7-May-14    | 9.97E-02  | 2.20E-02  | Yes |
| RM-160.5 Demier Landing           | U-235     | 8-May-14    | 6.84E-02  | 1.59E-02  | Yes |
| <b>SRS Streams</b>                |           |             |           |           |     |
| E-05                              | U-235     | 28-Apr-14   | 4.41E-02  | 1.14E-02  | Yes |
| E-06                              | U-235     | 28-Apr-14   | 4.46E-02  | 1.23E-02  | Yes |
| EAV Basin North (E-004)           | U-235     | 28-Apr-14   | 1.03E-01  | 2.08E-02  | Yes |
| EAV Basin South (E-003)           | U-235     | 27-Feb-14   | 7.32E-02  | 1.46E-02  | Yes |
| FM-2 at Road 4                    | U-235     | 1-May-14    | 1.01E-01  | 2.09E-02  | Yes |
| FM-3A Below F-Area Effluent       | U-235     | 10-Mar-14   | 6.57E-02  | 1.50E-02  | Yes |
| Four Mile A-7A (Beaver Pond)      | U-235     | 1-May-14    | 4.76E-02  | 1.19E-02  | Yes |
| Four Mile Creek Swamp Dischrg     | U-235     | 22-May-14   | 2.47E-02  | 9.89E-03  | Yes |
| Four Mile Creek at Road A-7       | U-235     | 1-May-14    | 4.95E-02  | 1.39E-02  | Yes |
| L3R-1A at Road B                  | U-235     | 28-Apr-14   | 1.66E-01  | 2.41E-02  | Yes |
| McQueen Branch below Z-Basin      | U-235     | 12-May-14   | 3.95E-02  | 1.09E-02  | Yes |
| POND 400                          | U-235     | 12-Mar-14   | 8.76E-02  | 1.67E-02  | Yes |
| Pen Branch Swamp Discharge        | U-235     | 22-May-14   | 5.73E-02  | 1.33E-02  | Yes |
| R-Area Downstream of R-1          | U-235     | 1-May-14    | 4.70E-02  | 1.22E-02  | Yes |
| SC-2A 1 mile above Road B         | U-235     | 1-May-14    | 3.89E-01  | 5.95E-02  | Yes |
| SC-4 Steel Creek at Road A        | U-235     | 29-Apr-14   | 8.57E-03  | 5.45E-03  | No  |

**2014 Radioactivity in River and Stream Sediment : Units are pCi/g**

| Location                          | Nuclide   | CollectDate | SampleCon | SampleStd | Sig |
|-----------------------------------|-----------|-------------|-----------|-----------|-----|
| SWDF Basin North (E-002)          | U-235     | 27-Feb-14   | 3.41E-02  | 1.09E-02  | Yes |
| SWDF Basin South (E-001)          | U-235     | 27-Feb-14   | 2.26E-02  | 8.53E-03  | Yes |
| TB-5 Near Road C                  | U-235     | 27-Feb-14   | 2.25E-01  | 3.13E-02  | Yes |
| Tinker Creek 1                    | U-235     | 27-Feb-14   | 3.97E-02  | 1.07E-02  | Yes |
| U3R-1A Treadway Bridge RD 8-1     | U-235     | 10-Mar-14   | 9.92E-02  | 1.79E-02  | Yes |
| Z-Basin*                          | U-235/236 | 13-May-14   | 2.67E-02  | 3.13E-02  | No  |
| Z-01 Outfall*                     | U-235/236 | 12-May-14   | 7.78E-02  | 4.11E-02  | J   |
| McQueens Branch Monroe Owens Road | U-235     | 28-Apr-14   | 2.49E-01  | 3.36E-02  | Yes |
| Pen Branch at Road 125            | U-235     | 28-Apr-14   | 1.31E-02  | 3.75E-03  | Yes |
| FMC @ Road 125                    | U-235     | 28-Apr-14   | 6.99E-02  | 1.62E-02  | Yes |
| U3R at Rd C                       | U-235     | 28-Apr-14   | 7.53E-02  | 1.73E-02  | Yes |
| <b>Savannah River</b>             |           |             |           |           |     |
| RM-118.7 Highway 301              | Np-237    | 7-May-14    | 6.32E-04  | 5.44E-04  | No  |
| RM-129 Lower 3 Runs Mouth         | Np-237    | 7-May-14    | -1.71E-05 | 2.00E-05  | No  |
| RM-134.0 Below Little Hell Lnd    | Np-237    | 8-May-14    | -2.26E-04 | 2.09E-04  | No  |
| RM-150.2 Below Four Mile Creek    | Np-237    | 8-May-14    | -2.45E-04 | 2.20E-04  | No  |
| RM-151 R-3A Above Vogle           | Np-237    | 8-May-14    | -1.18E-03 | 6.34E-04  | No  |
| RM-152.1 Beaver Dam Creek         | Np-237    | 7-May-14    | 1.19E-04  | 3.03E-04  | No  |
| RM-157.2 Upper 3 Runs Mouth       | Np-237    | 7-May-14    | -6.51E-05 | 2.68E-04  | No  |
| RM-160.5 Demier Landing           | Np-237    | 8-May-14    | 5.95E-04  | 3.61E-04  | No  |
| <b>SRS Streams</b>                |           |             |           |           |     |
| E-05                              | Np-237    | 28-Apr-14   | -6.24E-05 | 2.73E-04  | No  |
| E-06                              | Np-237    | 28-Apr-14   | -1.30E-04 | 5.21E-04  | No  |
| EAV Basin North (E-004)           | Np-237    | 28-Apr-14   | 3.16E-03  | 1.26E-03  | Yes |
| EAV Basin South (E-003)           | Np-237    | 27-Feb-14   | -2.81E-04 | 2.77E-04  | No  |
| FM-2 at Road 4                    | Np-237    | 1-May-14    | 2.54E-02  | 3.23E-03  | Yes |
| FM-3A Below F-Area Effluent       | Np-237    | 10-Mar-14   | 1.21E-04  | 3.52E-04  | No  |
| Four Mile A-7A (Beaver Pond)      | Np-237    | 1-May-14    | 1.45E-03  | 8.30E-04  | No  |
| Four Mile Creek Swamp Dischrg     | Np-237    | 22-May-14   | 2.89E-03  | 1.08E-03  | Yes |
| Four Mile Creek at Road A-7       | Np-237    | 1-May-14    | 1.14E-03  | 8.05E-04  | No  |
| L3R-1A at Road B                  | Np-237    | 28-Apr-14   | 7.97E-03  | 1.79E-03  | Yes |
| McQueen Branch below Z-Basin      | Np-237    | 12-May-14   | 2.62E-04  | 6.68E-04  | No  |
| POND 400                          | Np-237    | 12-Mar-14   | 2.84E-03  | 1.04E-03  | Yes |
| Pen Branch Swamp Discharge        | Np-237    | 22-May-14   | 4.41E-04  | 3.69E-04  | No  |
| R-Area Downstream of R-1          | Np-237    | 1-May-14    | 9.95E-04  | 4.56E-04  | No  |
| SC-2A 1 mile above Road B         | Np-237    | 1-May-14    | 3.32E-04  | 6.00E-04  | No  |
| SC-4 Steel Creek at Road A        | Np-237    | 29-Apr-14   | -1.09E-04 | 4.51E-04  | No  |
| SWDF Basin North (E-002)          | Np-237    | 27-Feb-14   | 4.14E-04  | 4.95E-04  | No  |
| SWDF Basin South (E-001)          | Np-237    | 27-Feb-14   | 1.22E-04  | 3.27E-04  | No  |
| TB-5 Near Road C                  | Np-237    | 27-Feb-14   | 6.92E-03  | 1.67E-03  | Yes |
| Tinker Creek 1                    | Np-237    | 27-Feb-14   | 7.08E-04  | 5.04E-04  | No  |
| U3R-1A Treadway Bridge RD 8-1     | Np-237    | 10-Mar-14   | 4.16E-04  | 2.95E-04  | No  |



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| Location                          | Nuclide | CollectDate | SampleCon | SampleStd | Sig |
|-----------------------------------|---------|-------------|-----------|-----------|-----|
| Z-Basin*                          | Np-237  | 13-May-14   | 7.69E-03  | 2.13E-02  | No  |
| Z-01 Outfall*                     | Np-237  | 12-May-14   | 1.76E-03  | 1.10E-02  | No  |
| <b>Savannah River</b>             |         |             |           |           |     |
| RM-118.7 Highway 301              | U-238   | 7-May-14    | 1.43E+00  | 1.13E-01  | Yes |
| RM-129 Lower 3 Runs Mouth         | U-238   | 7-May-14    | 1.50E+00  | 1.27E-01  | Yes |
| RM-134.0 Below Little Hell Lnd    | U-238   | 8-May-14    | 1.13E+00  | 8.96E-02  | Yes |
| RM-150.2 Below Four Mile Creek    | U-238   | 8-May-14    | 9.59E-01  | 8.28E-02  | Yes |
| RM-151 R-3A Above Vogle           | U-238   | 8-May-14    | 1.81E+00  | 1.51E-01  | Yes |
| RM-152.1 Beaver Dam Creek         | U-238   | 7-May-14    | 1.35E+00  | 1.11E-01  | Yes |
| RM-157.2 Upper 3 Runs Mouth       | U-238   | 7-May-14    | 1.80E+00  | 1.55E-01  | Yes |
| RM-160.5 Demier Landing           | U-238   | 8-May-14    | 1.57E+00  | 1.30E-01  | Yes |
| <b>SRS Streams</b>                |         |             |           |           |     |
| E-05                              | U-238   | 28-Apr-14   | 7.73E-01  | 6.76E-02  | Yes |
| E-06                              | U-238   | 28-Apr-14   | 1.49E+00  | 1.15E-01  | Yes |
| EAV Basin North (E-004)           | U-238   | 28-Apr-14   | 1.99E+00  | 1.64E-01  | Yes |
| EAV Basin South (E-003)           | U-238   | 27-Feb-14   | 1.59E+00  | 1.24E-01  | Yes |
| FM-2 at Road 4                    | U-238   | 1-May-14    | 2.44E+00  | 1.98E-01  | Yes |
| FM-3A Below F-Area Effluent       | U-238   | 10-Mar-14   | 1.28E+00  | 1.07E-01  | Yes |
| Four Mile A-7A (Beaver Pond)      | U-238   | 1-May-14    | 6.97E-01  | 6.20E-02  | Yes |
| Four Mile Creek Swamp Dischrg     | U-238   | 22-May-14   | 4.92E-01  | 4.78E-02  | Yes |
| Four Mile Creek at Road A-7       | U-238   | 1-May-14    | 9.11E-01  | 8.53E-02  | Yes |
| L3R-1A at Road B                  | U-238   | 28-Apr-14   | 3.11E+00  | 2.26E-01  | Yes |
| McQueen Branch below Z-Basin      | U-238   | 12-May-14   | 5.19E-01  | 4.97E-02  | Yes |
| POND 400                          | U-238   | 12-Mar-14   | 2.13E+00  | 1.64E-01  | Yes |
| Pen Branch Swamp Discharge        | U-238   | 22-May-14   | 1.02E+00  | 8.27E-02  | Yes |
| R-Area Downstream of R-1          | U-238   | 1-May-14    | 1.26E+00  | 1.03E-01  | Yes |
| SC-2A 1 mile above Road B         | U-238   | 1-May-14    | 8.62E+00  | 7.24E-01  | Yes |
| SC-4 Steel Creek at Road A        | U-238   | 29-Apr-14   | 1.70E-01  | 2.28E-02  | Yes |
| SWDF Basin North (E-002)          | U-238   | 27-Feb-14   | 6.73E-01  | 6.26E-02  | Yes |
| SWDF Basin South (E-001)          | U-238   | 27-Feb-14   | 8.11E-01  | 7.07E-02  | Yes |
| TB-5 Near Road C                  | U-238   | 27-Feb-14   | 4.27E+00  | 3.13E-01  | Yes |
| Tinker Creek 1                    | U-238   | 27-Feb-14   | 1.30E+00  | 1.04E-01  | Yes |
| U3R-1A Treadway Bridge RD 8-1     | U-238   | 10-Mar-14   | 1.62E+00  | 1.26E-01  | Yes |
| Z-Basin*                          | U-238   | 13-May-14   | 8.32E-01  | 1.19E-01  | Yes |
| Z-01 Outfall*                     | U-238   | 12-May-14   | 4.56E-01  | 8.31E-02  | Yes |
| McQueens Branch Monroe Owens Road | U-238   | 28-Apr-14   | 2.64E+00  | 2.00E-01  | Yes |
| Pen Branch at Road 125            | U-238   | 28-Apr-14   | 2.98E-01  | 2.64E-02  | Yes |
| FMC @ Road 125                    | U-238   | 28-Apr-14   | 1.06E+00  | 9.24E-02  | Yes |
| U3R at Rd C                       | U-238   | 28-Apr-14   | 1.13E+00  | 9.81E-02  | Yes |

**2014 Radioactivity in River and Stream Sediment : Units are pCi/g**

| Location                          | Nuclide | CollectDate | SampleCon | SampleStd | Sig |
|-----------------------------------|---------|-------------|-----------|-----------|-----|
| <b>Savannah River</b>             |         |             |           |           |     |
| RM-118.7 Highway 301              | Pu-238  | 7-May-14    | 7.00E-03  | 1.47E-03  | Yes |
| RM-129 Lower 3 Runs Mouth         | Pu-238  | 7-May-14    | 1.71E-04  | 1.86E-04  | No  |
| RM-134.0 Below Little Hell Lnd    | Pu-238  | 8-May-14    | 7.16E-04  | 5.87E-04  | No  |
| RM-150.2 Below Four Mile Creek    | Pu-238  | 8-May-14    | 1.09E-04  | 3.92E-04  | No  |
| RM-151 R-3A Above Vogle           | Pu-238  | 8-May-14    | 8.19E-05  | 2.96E-04  | No  |
| RM-152.1 Beaver Dam Creek         | Pu-238  | 7-May-14    | 5.08E-04  | 3.15E-04  | No  |
| RM-157.2 Upper 3 Runs Mouth       | Pu-238  | 7-May-14    | 1.34E-03  | 5.34E-04  | Yes |
| RM-160.5 Demier Landing           | Pu-238  | 8-May-14    | 2.57E-04  | 3.19E-04  | No  |
| <b>SRS Streams</b>                |         |             |           |           |     |
| E-05                              | Pu-238  | 28-Apr-14   | 2.29E-03  | 7.06E-04  | Yes |
| E-06                              | Pu-238  | 28-Apr-14   | 1.47E-03  | 7.84E-04  | No  |
| EAV Basin North (E-004)           | Pu-238  | 28-Apr-14   | 5.84E-03  | 1.78E-03  | Yes |
| EAV Basin South (E-003)           | Pu-238  | 27-Feb-14   | 6.68E-03  | 1.87E-03  | Yes |
| FM-2 at Road 4                    | Pu-238  | 1-May-14    | 6.49E-01  | 5.96E-02  | Yes |
| FM-3A Below F-Area Effluent       | Pu-238  | 10-Mar-14   | 1.02E-03  | 4.73E-04  | Yes |
| Four Mile A-7A (Beaver Pond)      | Pu-238  | 1-May-14    | 4.27E-02  | 5.66E-03  | Yes |
| Four Mile Creek Swamp Dischrg     | Pu-238  | 22-May-14   | 3.41E-02  | 5.08E-03  | Yes |
| Four Mile Creek at Road A-7       | Pu-238  | 1-May-14    | 8.89E-02  | 9.89E-03  | Yes |
| L3R-1A at Road B                  | Pu-238  | 28-Apr-14   | 1.79E-02  | 2.96E-03  | Yes |
| McQueen Branch below Z-Basin      | Pu-238  | 12-May-14   | 3.24E-03  | 1.26E-03  | Yes |
| POND 400                          | Pu-238  | 12-Mar-14   | 9.70E-02  | 1.08E-02  | Yes |
| Pen Branch Swamp Discharge        | Pu-238  | 22-May-14   | 1.35E-03  | 5.33E-04  | Yes |
| R-Area Downstream of R-1          | Pu-238  | 1-May-14    | 3.16E-02  | 3.81E-03  | Yes |
| SC-2A 1 mile above Road B         | Pu-238  | 1-May-14    | 1.34E-02  | 2.24E-03  | Yes |
| SC-4 Steel Creek at Road A        | Pu-238  | 29-Apr-14   | 4.22E-03  | 1.27E-03  | Yes |
| SWDF Basin North (E-002)          | Pu-238  | 27-Feb-14   | 4.70E-03  | 1.24E-03  | Yes |
| SWDF Basin South (E-001)          | Pu-238  | 27-Feb-14   | 9.32E-02  | 9.24E-03  | Yes |
| TB-5 Near Road C                  | Pu-238  | 27-Feb-14   | 1.56E-02  | 2.83E-03  | Yes |
| Tinker Creek 1                    | Pu-238  | 27-Feb-14   | 1.05E-03  | 6.23E-04  | No  |
| U3R-1A Treadway Bridge RD 8-1     | Pu-238  | 10-Mar-14   | 4.70E-04  | 3.88E-04  | No  |
| Z-Basin*                          | Pu-238  | 13-May-14   | 7.40E-03  | 1.09E-02  | No  |
| Z-01 Outfall*                     | Pu-238  | 12-May-14   | -8.19E-05 | 1.28E-02  | No  |
| McQueens Branch Monroe Owens Road | Pu-238  | 28-Apr-14   | 1.14E-01  | 1.20E-02  | Yes |
| Pen Branch at Road 125            | Pu-238  | 28-Apr-14   | 2.12E-03  | 7.71E-04  | Yes |
| FMC @ Road 125                    | Pu-238  | 28-Apr-14   | 5.63E-02  | 6.24E-03  | Yes |
| U3R at Rd C                       | Pu-238  | 28-Apr-14   | 4.91E-03  | 1.23E-03  | Yes |
| <b>Savannah River</b>             |         |             |           |           |     |
| RM-118.7 Highway 301              | Pu-239  | 7-May-14    | 1.11E-03  | 6.43E-04  | No  |
| RM-129 Lower 3 Runs Mouth         | Pu-239  | 7-May-14    | 7.76E-04  | 4.33E-04  | Yes |
| RM-134.0 Below Little Hell Lnd    | Pu-239  | 8-May-14    | 2.58E-03  | 9.93E-04  | Yes |
| RM-150.2 Below Four Mile Creek    | Pu-239  | 8-May-14    | 8.68E-04  | 7.20E-04  | No  |

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| RM-151 R-3A Above Vogle           | Pu-239     | 8-May-14    | 3.27E-04  | 3.84E-04  | No  |
| RM-152.1 Beaver Dam Creek         | Pu-239     | 7-May-14    | 4.46E-04  | 3.95E-04  | No  |
| RM-157.2 Upper 3 Runs Mouth       | Pu-239     | 7-May-14    | 4.68E-03  | 1.07E-03  | Yes |
| RM-160.5 Demier Landing           | Pu-239     | 8-May-14    | 1.40E-03  | 5.51E-04  | Yes |
| <b>SRS Streams</b>                |            |             |           |           |     |
| E-05                              | Pu-239     | 28-Apr-14   | 4.68E-03  | 1.01E-03  | Yes |
| E-06                              | Pu-239     | 28-Apr-14   | 2.62E-03  | 1.03E-03  | Yes |
| EAV Basin North (E-004)           | Pu-239     | 28-Apr-14   | 2.69E-03  | 1.14E-03  | Yes |
| EAV Basin South (E-003)           | Pu-239     | 27-Feb-14   | 1.38E-02  | 2.83E-03  | Yes |
| FM-2 at Road 4                    | Pu-239     | 1-May-14    | 4.57E-02  | 5.11E-03  | Yes |
| FM-3A Below F-Area Effluent       | Pu-239     | 10-Mar-14   | 6.54E-03  | 1.30E-03  | Yes |
| Four Mile A-7A (Beaver Pond)      | Pu-239     | 1-May-14    | 1.63E-02  | 2.85E-03  | Yes |
| Four Mile Creek Swamp Dischrg     | Pu-239     | 22-May-14   | 3.38E-02  | 5.06E-03  | Yes |
| Four Mile Creek at Road A-7       | Pu-239     | 1-May-14    | 3.49E-02  | 4.58E-03  | Yes |
| L3R-1A at Road B                  | Pu-239     | 28-Apr-14   | 4.11E-04  | 4.83E-04  | No  |
| McQueen Branch below Z-Basin      | Pu-239     | 12-May-14   | 3.11E-03  | 1.35E-03  | Yes |
| POND 400                          | Pu-239     | 12-Mar-14   | 8.51E-01  | 8.33E-02  | Yes |
| Pen Branch Swamp Discharge        | Pu-239     | 22-May-14   | 8.32E-03  | 1.48E-03  | Yes |
| R-Area Downstream of R-1          | Pu-239     | 1-May-14    | 1.84E-01  | 1.75E-02  | Yes |
| SC-2A 1 mile above Road B         | Pu-239     | 1-May-14    | 1.07E-02  | 1.95E-03  | Yes |
| SC-4 Steel Creek at Road A        | Pu-239     | 29-Apr-14   | 2.58E-03  | 9.67E-04  | Yes |
| SWDF Basin North (E-002)          | Pu-239     | 27-Feb-14   | 1.22E-03  | 5.50E-04  | No  |
| SWDF Basin South (E-001)          | Pu-239     | 27-Feb-14   | 6.78E-03  | 1.24E-03  | Yes |
| TB-5 Near Road C                  | Pu-239     | 27-Feb-14   | 1.09E-04  | 3.93E-04  | No  |
| Tinker Creek 1                    | Pu-239     | 27-Feb-14   | 3.86E-03  | 1.23E-03  | Yes |
| U3R-1A Treadway Bridge RD 8-1     | Pu-239     | 10-Mar-14   | 5.95E-03  | 1.22E-03  | Yes |
| Z-Basin*                          | Pu-239/240 | 13-May-14   | 4.14E-03  | 1.17E-02  | No  |
| Z-01 Outfall*                     | Pu-239/240 | 13-May-14   | 7.27E-03  | 1.10E-02  | No  |
| McQueens Branch Monroe Owens Road | Pu-239     | 28-Apr-14   | 1.15E-01  | 1.21E-02  | Yes |
| Pen Branch at Road 125            | Pu-239     | 28-Apr-14   | 1.58E-03  | 6.50E-04  | Yes |
| FMC @ Road 125                    | Pu-239     | 28-Apr-14   | 8.89E-03  | 1.61E-03  | Yes |
| U3R at Rd C                       | Pu-239     | 28-Apr-14   | 3.03E-03  | 9.00E-04  | Yes |
| <b>Savannah River</b>             |            |             |           |           |     |
| RM-118.7 Highway 301              | Am-241     | 7-May-14    | 6.22E-03  | 1.09E-03  | Yes |
| RM-129 Lower 3 Runs Mouth         | Am-241     | 7-May-14    | 9.14E-04  | 4.42E-04  | No  |
| RM-134.0 Below Little Hell Lnd    | Am-241     | 8-May-14    | 1.44E-03  | 5.20E-04  | Yes |
| RM-150.2 Below Four Mile Creek    | Am-241     | 8-May-14    | 5.14E-04  | 4.09E-04  | No  |
| RM-151 R-3A Above Vogle           | Am-241     | 8-May-14    | 3.65E-03  | 8.72E-04  | Yes |
| RM-152.1 Beaver Dam Creek         | Am-241     | 7-May-14    | 1.72E-03  | 5.69E-04  | Yes |
| RM-157.2 Upper 3 Runs Mouth       | Am-241     | 7-May-14    | 6.57E-03  | 1.21E-03  | Yes |
| RM-160.5 Demier Landing           | Am-241     | 8-May-14    | 1.21E-03  | 4.89E-04  | Yes |

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|-----------------------------------|---------|-------------|-----------|-----------|-----|
| <b>SRS Streams</b>                |         |             |           |           |     |
| E-05                              | Am-241  | 28-Apr-14   | 1.20E-03  | 5.30E-04  | Yes |
| E-06                              | Am-241  | 28-Apr-14   | -2.29E-04 | 7.49E-04  | No  |
| EAV Basin North (E-004)           | Am-241  | 28-Apr-14   | 3.16E-03  | 1.17E-03  | Yes |
| EAV Basin South (E-003)           | Am-241  | 27-Feb-14   | 1.02E-02  | 1.66E-03  | Yes |
| FM-2 at Road 4                    | Am-241  | 1-May-14    | 2.52E-02  | 3.23E-03  | Yes |
| FM-3A Below F-Area Effluent       | Am-241  | 10-Mar-14   | 5.22E-03  | 1.01E-03  | Yes |
| Four Mile A-7A (Beaver Pond)      | Am-241  | 1-May-14    | 2.37E-02  | 2.90E-03  | Yes |
| Four Mile Creek Swamp Dischrg     | Am-241  | 22-May-14   | 1.91E-02  | 2.47E-03  | Yes |
| Four Mile Creek at Road A-7       | Am-241  | 1-May-14    | 5.54E-02  | 5.09E-03  | Yes |
| L3R-1A at Road B                  | Am-241  | 28-Apr-14   | 2.92E-04  | 3.06E-04  | No  |
| McQueen Branch below Z-Basin      | Am-241  | 12-May-14   | 3.16E-03  | 1.24E-03  | Yes |
| POND 400                          | Am-241  | 12-Mar-14   | 8.51E-02  | 7.29E-03  | Yes |
| Pen Branch Swamp Discharge        | Am-241  | 22-May-14   | 3.57E-03  | 8.17E-04  | Yes |
| R-Area Downstream of R-1          | Am-241  | 1-May-14    | 1.56E-01  | 1.12E-02  | Yes |
| SC-2A 1 mile above Road B         | Am-241  | 1-May-14    | 1.02E-02  | 2.10E-03  | Yes |
| SC-4 Steel Creek at Road A        | Am-241  | 29-Apr-14   | 7.00E-04  | 5.18E-04  | No  |
| SWDF Basin North (E-002)          | Am-241  | 27-Feb-14   | 3.11E-04  | 3.65E-04  | No  |
| SWDF Basin South (E-001)          | Am-241  | 27-Feb-14   | 5.27E-03  | 1.05E-03  | Yes |
| TB-5 Near Road C                  | Am-241  | 27-Feb-14   | 6.49E-03  | 1.58E-03  | Yes |
| Tinker Creek 1                    | Am-241  | 27-Feb-14   | 6.14E-03  | 1.42E-03  | Yes |
| U3R-1A Treadway Bridge RD 8-1     | Am-241  | 10-Mar-14   | 5.57E-03  | 1.10E-03  | Yes |
| Z-Basin*                          | Am-241  | 13-May-14   | -3.99E-03 | 1.63E-02  | No  |
| Z-01 Outfall*                     | Am-241  | 12-May-14   | -3.98E-03 | 8.66E-03  | No  |
| McQueens Branch Monroe Owens Road | Am-241  | 28-Apr-14   | 1.63E-02  | 2.06E-03  | Yes |
| Pen Branch at Road 125            | Am-241  | 28-Apr-14   | 1.47E-03  | 6.38E-04  | Yes |
| FMC @ Road 125                    | Am-241  | 28-Apr-14   | 2.94E-02  | 3.19E-03  | Yes |
| U3R at Rd C                       | Am-241  | 28-Apr-14   | 8.58E-04  | 5.55E-04  | No  |
| <b>Savannah River</b>             |         |             |           |           |     |
| RM-118.7 Highway 301              | Cm-244  | 7-May-14    | 6.89E-03  | 1.18E-03  | Yes |
| RM-129 Lower 3 Runs Mouth         | Cm-244  | 7-May-14    | 5.81E-05  | 2.09E-04  | No  |
| RM-134.0 Below Little Hell Lnd    | Cm-244  | 8-May-14    | 7.89E-04  | 4.28E-04  | Yes |
| RM-150.2 Below Four Mile Creek    | Cm-244  | 8-May-14    | 2.18E-04  | 2.18E-04  | No  |
| RM-151 R-3A Above Vogle           | Cm-244  | 8-May-14    | 9.49E-04  | 4.29E-04  | Yes |
| RM-152.1 Beaver Dam Creek         | Cm-244  | 7-May-14    | 3.54E-04  | 2.50E-04  | No  |
| RM-157.2 Upper 3 Runs Mouth       | Cm-244  | 7-May-14    | 9.54E-04  | 4.31E-04  | Yes |
| RM-160.5 Demier Landing           | Cm-244  | 8-May-14    | 2.23E-04  | 2.62E-04  | No  |
| <b>SRS Streams</b>                |         |             |           |           |     |
| E-05                              | Cm-244  | 28-Apr-14   | 9.54E-04  | 4.39E-04  | Yes |
| E-06                              | Cm-244  | 28-Apr-14   | 0.00E+00  | 6.75E-04  | No  |
| EAV Basin North (E-004)           | Cm-244  | 28-Apr-14   | 2.16E-03  | 1.04E-03  | Yes |
| EAV Basin South (E-003)           | Cm-244  | 27-Feb-14   | -1.39E-04 | 1.39E-04  | No  |

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|-----------------------------------|------------|-------------|-----------|-----------|-----|
| FM-2 at Road 4                    | Cm-244     | 1-May-14    | 1.29E-02  | 2.11E-03  | Yes |
| FM-3A Below F-Area Effluent       | Cm-244     | 10-Mar-14   | 4.78E-03  | 9.71E-04  | Yes |
| Four Mile A-7A (Beaver Pond)      | Cm-244     | 1-May-14    | 1.81E-02  | 2.42E-03  | Yes |
| Four Mile Creek Swamp Dischrg     | Cm-244     | 22-May-14   | 9.49E-03  | 1.62E-03  | Yes |
| Four Mile Creek at Road A-7       | Cm-244     | 1-May-14    | 4.38E-02  | 4.24E-03  | Yes |
| L3R-1A at Road B                  | Cm-244     | 28-Apr-14   | 9.05E-05  | 3.70E-04  | No  |
| McQueen Branch below Z-Basin      | Cm-244     | 12-May-14   | 9.11E-04  | 6.57E-04  | No  |
| POND 400                          | Cm-244     | 12-Mar-14   | 8.41E-03  | 1.46E-03  | Yes |
| Pen Branch Swamp Discharge        | Cm-244     | 22-May-14   | 2.29E-04  | 2.69E-04  | No  |
| R-Area Downstream of R-1          | Cm-244     | 1-May-14    | 1.88E-02  | 2.14E-03  | Yes |
| SC-2A 1 mile above Road B         | Cm-244     | 1-May-14    | 4.08E-03  | 1.27E-03  | Yes |
| SC-4 Steel Creek at Road A        | Cm-244     | 29-Apr-14   | 0.00E+00  | 4.67E-04  | No  |
| SWDF Basin North (E-002)          | Cm-244     | 27-Feb-14   | 3.97E-04  | 3.50E-04  | No  |
| SWDF Basin South (E-001)          | Cm-244     | 27-Feb-14   | 4.00E-03  | 9.36E-04  | Yes |
| TB-5 Near Road C                  | Cm-244     | 27-Feb-14   | 6.86E-04  | 4.98E-04  | No  |
| Tinker Creek 1                    | Cm-244     | 27-Feb-14   | 8.81E-04  | 5.21E-04  | No  |
| U3R-1A Treadway Bridge RD 8-1     | Cm-244     | 10-Mar-14   | 1.15E-04  | 3.23E-04  | No  |
| Z-Basin*                          | Cm-243/244 | 13-May-14   | -1.33E-03 | 1.11E-02  | No  |
| Z-01 Outfall*                     | Cm-243/244 | 12-May-14   | 2.32E-02  | 2.17E-02  | No  |
| McQueens Branch Monroe Owens Road | Cm-244     | 28-Apr-14   | 1.99E-03  | 6.21E-04  | Yes |
| Pen Branch at Road 125            | Cm-244     | 28-Apr-14   | 8.15E-04  | 8.31E-04  | No  |
| FMC @ Road 125                    | Cm-244     | 28-Apr-14   | 2.17E-02  | 2.60E-03  | Yes |
| U3R at Rd C                       | Cm-244     | 28-Apr-14   | 8.68E-04  | 5.61E-04  | No  |
| <b>SRS Streams</b>                |            |             |           |           |     |
| McQueen Branch below Z-Basin      | Gross B    | 12-May-14   | 5.62E+00  | 1.01E+00  | Yes |
| Z-Basin*                          | Gross B    | 13-May-14   | 1.28E+03  | 2.41E+01  | Yes |
| Z-01 Outfall*                     | Gross B    | 12-May-14   | 1.40E+02  | 8.15E+00  | Yes |
| McQueens Branch Monroe Owens Road | Gross B    | 28-Apr-14   | 1.90E+01  | 1.53E+00  | Yes |
| Pen Branch at Road 125            | Gross B    | 28-Apr-14   | 6.90E+00  | 1.06E+00  | Yes |
| FMC @ Road 125                    | Gross B    | 28-Apr-14   | 6.59E+00  | 1.06E+00  | Yes |
| U3R at Rd C                       | Gross B    | 28-Apr-14   | 1.14E+01  | 1.26E+00  | Yes |
| <b>SRS Streams</b>                |            |             |           |           |     |
| McQueen Branch below Z-Basin      | Gross A    | 12-May-14   | 7.46E+00  | 1.15E+00  | Yes |
| Z-Basin*                          | Gross A    | 13-May-14   | 8.67E+00  | 3.25E+00  | J   |
| Z-01 Outfall*                     | Gross A    | 12-May-14   | 4.85E+00  | 2.47E+00  | J   |
| McQueens Branch Monroe Owens Road | Gross A    | 28-Apr-14   | 2.40E+01  | 2.18E+00  | Yes |
| Pen Branch at Road 125            | Gross A    | 28-Apr-14   | 6.81E+00  | 1.08E+00  | Yes |
| FMC @ Road 125                    | Gross A    | 28-Apr-14   | 6.91E+00  | 1.15E+00  | Yes |
| U3R at Rd C                       | Gross A    | 28-Apr-14   | 1.40E+01  | 1.57E+00  | Yes |