

NOTE: The analyte mean is set to zero if all composite values per fish species are not significant.

NOTE: All saltwater fish are collected at location designated River Miles 0-8 (mouth of Savannah River)

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".

Data Table 5-15 Radioactivity in Aquatic Food Products - Saltwater Fish

Summary Statistic Section

2013 Radioactivity in Aquatic Food Products - Saltwater Fish : Units are pCi/g

Result was reported as detected.

<i>Fish Species</i>	<i>Marine Mullet</i>				<i>Red Drum</i>				<i>Sea Trout</i>			
Analyte	N (number of composites)	Mean	Minimum	Maximum	N (number of composites)	Mean	Minimum	Maximum	N (number of composites)	Mean	Minimum	Maximum
H-3	3	5.80E-02 (1.26E-02)	1.85E-02 (2.09E-02)	8.00E-02 (2.14E-02)	3	1.33E-01 (1.11E-02)	1.15E-01 (1.97E-02)	1.44E-01 (1.91E-02)	3	1.06E-01 (1.23E-02)	9.95E-02 (2.38E-02)	1.12E-01 (2.00E-02)
Co-60	3	0.00E+00 (5.33E-03)	-1.87E-03 (8.70E-03)	1.85E-02 (9.24E-03)	3	0.00E+00 (5.30E-03)	2.84E-03 (9.62E-03)	2.27E-02 (8.92E-03)	3	0.00E+00 (4.94E-03)	5.70E-04 (8.65E-03)	1.19E-02 (8.46E-03)
Cs-137	3	0.00E+00 (5.23E-03)	2.70E-03 (8.78E-03)	2.08E-02 (9.35E-03)	3	0.00E+00 (5.45E-03)	-8.38E-04 (9.70E-03)	1.98E-02 (8.70E-03)	3	0.00E+00 (5.21E-03)	4.59E-03 (9.27E-03)	1.01E-02 (9.22E-03)
Sr-89/90 Edible	3	0.00E+00 (5.52E-04)	-1.49E-03 (8.62E-04)	6.46E-04 (1.02E-03)	3	0.00E+00 (5.87E-04)	8.54E-04 (9.49E-04)	1.95E-03 (1.03E-03)	3	0.00E+00 (6.26E-04)	-7.68E-05 (8.78E-04)	1.52E-03 (1.19E-03)
Sr 89/90 Non-Edible	3	3.80E-01 (7.40E-02)	5.70E-02 (1.02E-01)	7.19E-01 (1.54E-01)	3	4.87E-01 (7.39E-02)	1.03E-01 (1.01E-01)	9.57E-01 (1.54E-01)	3	0.00E+00 (5.58E-02)	-1.41E-01 (8.68E-02)	1.19E-01 (1.02E-01)
I-129	3	0.00E+00 (4.08E-03)	-4.24E-03 (7.16E-03)	7.78E-03 (6.92E-03)	3	0.00E+00 (5.07E-03)	-1.39E-02 (7.95E-03)	1.83E-02 (9.27E-03)	3	0.00E+00 (4.83E-03)	1.58E-03 (8.38E-03)	2.16E-02 (8.84E-03)
U-234	3	1.28E-03 (8.83E-05)	9.22E-04 (1.11E-04)	1.85E-03 (1.92E-04)	3	5.71E-05 (1.57E-05)	2.15E-05 (1.89E-05)	8.00E-05 (2.84E-05)	3	9.02E-05 (1.62E-05)	2.42E-05 (5.05E-06)	1.47E-04 (3.73E-05)
U-235	3	6.93E-05 (1.89E-05)	4.22E-05 (2.13E-05)	1.13E-04 (4.03E-05)	3	0.00E+00 (4.54E-06)	-1.15E-06 (1.05E-06)	2.59E-06 (1.35E-05)	3	0.00E+00 (4.30E-06)	-6.92E-06 (6.95E-06)	1.07E-05 (1.07E-05)
Np-237	3	0.00E+00 (3.12E-03)	-6.32E-06 (6.35E-06)	1.75E-05 (1.40E-05)	3	0.00E+00 (3.40E-06)	-1.65E-06 (2.02E-06)	7.76E-06 (9.81E-06)	3	0.00E+00 (3.61E-06)	-1.86E-07 (2.14E-07)	1.07E-05 (1.08E-05)
U-238	3	9.63E-04 (7.07E-05)	6.89E-04 (8.97E-05)	1.18E-03 (1.36E-04)	3	9.14E-05 (1.86E-05)	4.73E-05 (2.35E-05)	1.38E-04 (4.03E-05)	3	7.51E-05 (1.54E-05)	2.34E-05 (5.11E-06)	1.74E-04 (4.22E-05)
Pu-238	3	0.00E+00 (8.71E-06)	-6.16E-06 (1.34E-05)	3.00E-05 (2.02E-05)	3	0.00E+00 (5.45E-06)	-5.43E-07 (6.59E-07)	1.80E-05 (1.33E-05)	3	0.00E+00 (8.02E-06)	8.16E-07 (8.19E-07)	2.19E-05 (2.08E-05)
Pu-239	3	0.00E+00 (8.17E-06)	8.68E-06 (9.51E-06)	3.19E-05 (1.93E-05)	3	0.00E+00 (7.99E-06)	-2.02E-05 (1.08E-05)	1.87E-05 (1.66E-05)	3	0.00E+00 (4.44E-06)	-5.41E-07 (5.89E-07)	9.92E-06 (1.08E-05)
Am-241	3	0.00E+00 (4.06E-06)	-5.51E-06 (5.51E-06)	7.86E-06 (7.86E-06)	3	0.00E+00 (2.84E-06)	-1.48E-06 (1.28E-06)	6.62E-06 (8.32E-06)	3	0.00E+00 (7.22E-06)	-1.08E-05 (7.70E-06)	3.38E-05 (1.71E-05)
Cm-244	3	0.00E+00 (3.80E-06)	-5.41E-07 (4.81E-07)	1.54E-05 (1.14E-05)	3	0.00E+00 (1.83E-06)	-5.62E-06 (5.49E-06)	-1.62E-07 (1.40E-07)	3	0.00E+00 (2.46E-03)	-5.41E-07 (4.84E-07)	8.19E-06 (8.19E-06)
Tc-99	3	0.00E+00 (1.25E-02)	5.62E-03 (2.02E-02)	4.24E-02 (2.36E-02)	3	0.00E+00 (1.36E-02)	2.16E-02 (2.35E-02)	5.16E-02 (2.39E-02)	3	0.00E+00 (1.37E-02)	2.70E-02 (2.34E-02)	5.97E-02 (2.40E-02)
Gross Beta	3	1.84E+00 (1.70E-01)	1.04E+00 (2.47E-01)	2.32E+00 (3.19E-01)	3	2.95E+00 (2.03E-01)	2.70E+00 (3.38E-01)	3.22E+00 (3.65E-01)	3	1.68E+00 (1.64E-01)	1.50E+00 (2.73E-01)	1.97E+00 (3.00E-01)
Gross Alpha	3	0.00E+00 (5.17E-02)	-5.68E-03 (7.00E-02)	1.29E-01 (1.19E-01)	3	0.00E+00 (3.61E-02)	-7.30E-02 (2.64E-02)	-5.95E-03 (7.08E-02)	3	0.00E+00 (4.00E-02)	-7.05E-02 (2.56E-02)	1.24E-01 (1.14E-01)

NOTE: The analyte mean is set to zero if all composite values per fish species are not significant.

NOTE: All saltwater fish are collected at location designated River Miles 0-8 (mouth of Savannah River)

NOTE: Unless noted with Fish Species, all results are for fish flesh. Non-edible indicates fish bones.

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".

Data Table 5-15 Radioactivity in Aquatic Food Products - Saltwater Fish

Data Section

2013 Radioactivity in Aquatic Food Products - Saltwater Fish : Units are pCi/g

Fish Species	Nuclide	CollectDate	SampleCon	SampleStd	Sig
Marine Mullet	H-3	23-Jan-13	8.00E-02	2.14E-02	Yes
Marine Mullet	H-3	23-Jan-13	7.57E-02	2.31E-02	Yes
Marine Mullet	H-3	23-Jan-13	1.85E-02	2.09E-02	No
Red Fish (drum)	H-3	20-Mar-13	1.41E-01	1.86E-02	Yes
Red Fish (drum)	H-3	21-May-13	1.44E-01	1.91E-02	Yes
Red Fish (drum)	H-3	21-May-13	1.15E-01	1.97E-02	Yes
Sea Trout	H-3	6-Feb-13	1.05E-01	1.98E-02	Yes
Sea Trout	H-3	6-Feb-13	9.95E-02	2.38E-02	Yes
Sea Trout	H-3	20-Feb-13	1.12E-01	2.00E-02	Yes
Marine Mullet	Co-60	23-Jan-13	-1.87E-03	8.70E-03	No
Marine Mullet	Co-60	23-Jan-13	1.85E-02	9.24E-03	No
Marine Mullet	Co-60	23-Jan-13	6.95E-03	9.70E-03	No
Red Fish (drum)	Co-60	20-Mar-13	2.27E-02	8.92E-03	No
Red Fish (drum)	Co-60	21-May-13	2.84E-03	9.62E-03	No
Red Fish (drum)	Co-60	21-May-13	1.81E-02	8.97E-03	No
Sea Trout	Co-60	6-Feb-13	1.19E-02	8.46E-03	No
Sea Trout	Co-60	6-Feb-13	8.51E-03	8.54E-03	No
Sea Trout	Co-60	20-Feb-13	5.70E-04	8.65E-03	No
Marine Mullet	Cs-137	23-Jan-13	8.22E-03	9.05E-03	No
Marine Mullet	Cs-137	23-Jan-13	2.08E-02	9.35E-03	No
Marine Mullet	Cs-137	23-Jan-13	2.70E-03	8.78E-03	No
Red Fish (drum)	Cs-137	20-Mar-13	4.62E-03	9.89E-03	No
Red Fish (drum)	Cs-137	21-May-13	-8.38E-04	9.70E-03	No
Red Fish (drum)	Cs-137	21-May-13	1.98E-02	8.70E-03	No
Sea Trout	Cs-137	6-Feb-13	1.01E-02	9.22E-03	No
Sea Trout	Cs-137	6-Feb-13	5.32E-03	8.57E-03	No
Sea Trout	Cs-137	20-Feb-13	4.59E-03	9.27E-03	No
Marine Mullet	Sr-89/90	23-Jan-13	6.46E-04	1.02E-03	No
Marine Mullet	Sr-89/90	23-Jan-13	-1.49E-03	8.62E-04	No
Marine Mullet	Sr-89/90	23-Jan-13	1.36E-04	9.76E-04	No
Red Fish (drum)	Sr-89/90	20-Mar-13	1.27E-03	1.07E-03	No
Red Fish (drum)	Sr-89/90	21-May-13	8.54E-04	9.49E-04	No
Red Fish (drum)	Sr-89/90	21-May-13	1.95E-03	1.03E-03	No

2013 Radioactivity in Aquatic Food Products - Saltwater Fish : Units are pCi/g

Fish Species	Nuclide	CollectDate	SampleCon	SampleStd	Sig
Sea Trout	Sr-89/90	6-Feb-13	-7.68E-05	8.78E-04	No
Sea Trout	Sr-89/90	6-Feb-13	1.46E-03	1.16E-03	No
Sea Trout	Sr-89/90	20-Feb-13	1.52E-03	1.19E-03	No
Marine Mullet - non-edible	Sr-89/90	23-Jan-13	5.70E-02	1.02E-01	No
Marine Mullet - non-edible	Sr-89/90	23-Jan-13	3.65E-01	1.24E-01	Yes
Marine Mullet - non-edible	Sr-89/90	23-Jan-13	7.19E-01	1.54E-01	Yes
Red Fish (drum) - non-edible	Sr-89/90	20-Mar-13	4.00E-01	1.24E-01	Yes
Red Fish (drum) - non-edible	Sr-89/90	21-May-13	1.03E-01	1.01E-01	No
Red Fish (drum) - non-edible	Sr-89/90	21-May-13	9.57E-01	1.54E-01	Yes
Sea Trout - non-edible	Sr-89/90	6-Feb-13	4.89E-02	1.01E-01	No
Sea Trout - non-edible	Sr-89/90	6-Feb-13	1.19E-01	1.02E-01	No
Sea Trout - non-edible	Sr-89/90	20-Feb-13	-1.41E-01	8.68E-02	No
Marine Mullet	I-129	23-Jan-13	-4.24E-03	7.16E-03	No
Marine Mullet	I-129	23-Jan-13	3.84E-03	7.11E-03	No
Marine Mullet	I-129	23-Jan-13	7.78E-03	6.92E-03	No
Red Fish (drum)	I-129	20-Mar-13	-1.39E-02	7.95E-03	No
Red Fish (drum)	I-129	21-May-13	1.73E-02	9.05E-03	No
Red Fish (drum)	I-129	21-May-13	1.83E-02	9.27E-03	No
Sea Trout	I-129	6-Feb-13	1.87E-02	7.86E-03	No
Sea Trout	I-129	6-Feb-13	1.58E-03	8.38E-03	No
Sea Trout	I-129	20-Feb-13	2.16E-02	8.84E-03	No
Marine Mullet	U-234	23-Jan-13	1.06E-03	1.45E-04	Yes
Marine Mullet	U-234	23-Jan-13	1.85E-03	1.92E-04	Yes
Marine Mullet	U-234	23-Jan-13	9.22E-04	1.11E-04	Yes
Red Fish (drum)	U-234	20-Mar-13	8.00E-05	2.84E-05	Yes
Red Fish (drum)	U-234	21-May-13	6.97E-05	3.27E-05	Yes
Red Fish (drum)	U-234	21-May-13	2.15E-05	1.89E-05	No
Sea Trout	U-234	6-Feb-13	1.47E-04	3.73E-05	Yes
Sea Trout	U-234	6-Feb-13	9.92E-05	3.05E-05	Yes
Sea Trout	U-234	20-Feb-13	2.42E-05	5.05E-06	Yes
Marine Mullet	U-235	23-Jan-13	5.27E-05	3.35E-05	No
Marine Mullet	U-235	23-Jan-13	1.13E-04	4.03E-05	Yes
Marine Mullet	U-235	23-Jan-13	4.22E-05	2.13E-05	No
Red Fish (drum)	U-235	20-Mar-13	2.59E-06	1.35E-05	No
Red Fish (drum)	U-235	21-May-13	-1.15E-06	1.05E-06	No
Red Fish (drum)	U-235	21-May-13	-1.15E-06	1.05E-06	No
Sea Trout	U-235	6-Feb-13	1.07E-05	1.07E-05	No
Sea Trout	U-235	6-Feb-13	-6.92E-06	6.95E-06	No
Sea Trout	U-235	20-Feb-13	2.30E-06	1.64E-06	No

2013 Radioactivity in Aquatic Food Products - Saltwater Fish : Units are pCi/g

Fish Species	Nuclide	CollectDate	SampleCon	SampleStd	Sig
Marine Mullet	Np-237	23-Jan-13	-6.32E-06	6.35E-06	No
Marine Mullet	Np-237	23-Jan-13	0.00E+00	9.35E-03	No
Marine Mullet	Np-237	23-Jan-13	1.75E-05	1.40E-05	No
Red Fish (drum)	Np-237	20-Mar-13	7.76E-06	9.81E-06	No
Red Fish (drum)	Np-237	21-May-13	-1.65E-06	2.02E-06	No
Red Fish (drum)	Np-237	21-May-13	-1.65E-06	2.00E-06	No
Sea Trout	Np-237	6-Feb-13	-1.86E-07	2.14E-07	No
Sea Trout	Np-237	6-Feb-13	1.07E-05	1.08E-05	No
Sea Trout	Np-237	20-Feb-13	8.03E-07	8.27E-07	No
Marine Mullet	U-238	23-Jan-13	1.02E-03	1.36E-04	Yes
Marine Mullet	U-238	23-Jan-13	1.18E-03	1.36E-04	Yes
Marine Mullet	U-238	23-Jan-13	6.89E-04	8.97E-05	Yes
Red Fish (drum)	U-238	20-Mar-13	4.73E-05	2.35E-05	Yes
Red Fish (drum)	U-238	21-May-13	1.38E-04	4.03E-05	Yes
Red Fish (drum)	U-238	21-May-13	8.86E-05	3.08E-05	Yes
Sea Trout	U-238	6-Feb-13	1.74E-04	4.22E-05	Yes
Sea Trout	U-238	6-Feb-13	2.78E-05	1.78E-05	No
Sea Trout	U-238	20-Feb-13	2.34E-05	5.11E-06	Yes
Marine Mullet	Pu-238	23-Jan-13	-6.16E-06	1.34E-05	No
Marine Mullet	Pu-238	23-Jan-13	3.00E-05	2.02E-05	No
Marine Mullet	Pu-238	23-Jan-13	-5.14E-07	9.70E-06	No
Red Fish (drum)	Pu-238	20-Mar-13	8.81E-06	9.46E-06	No
Red Fish (drum)	Pu-238	21-May-13	1.80E-05	1.33E-05	No
Red Fish (drum)	Pu-238	21-May-13	-5.43E-07	6.59E-07	No
Sea Trout	Pu-238	6-Feb-13	1.03E-05	1.22E-05	No
Sea Trout	Pu-238	6-Feb-13	2.19E-05	2.08E-05	No
Sea Trout	Pu-238	20-Feb-13	8.16E-07	8.19E-07	No
Marine Mullet	Pu-239	23-Jan-13	8.68E-06	9.51E-06	No
Marine Mullet	Pu-239	23-Jan-13	3.19E-05	1.93E-05	No
Marine Mullet	Pu-239	23-Jan-13	9.22E-06	1.17E-05	No
Red Fish (drum)	Pu-239	20-Mar-13	-2.02E-05	1.08E-05	No
Red Fish (drum)	Pu-239	21-May-13	1.68E-05	1.35E-05	No
Red Fish (drum)	Pu-239	21-May-13	1.87E-05	1.66E-05	No
Sea Trout	Pu-239	6-Feb-13	7.70E-06	7.81E-06	No
Sea Trout	Pu-239	6-Feb-13	9.92E-06	1.08E-05	No
Sea Trout	Pu-239	20-Feb-13	-5.41E-07	5.89E-07	No
Marine Mullet	Am-241	23-Jan-13	-5.51E-06	5.51E-06	No
Marine Mullet	Am-241	23-Jan-13	7.51E-06	7.51E-06	No
Marine Mullet	Am-241	23-Jan-13	7.86E-06	7.86E-06	No
Red Fish (drum)	Am-241	20-Mar-13	-1.48E-06	1.30E-06	No
Red Fish (drum)	Am-241	21-May-13	6.62E-06	8.32E-06	No
Red Fish (drum)	Am-241	21-May-13	-1.48E-06	1.28E-06	No

2013 Radioactivity in Aquatic Food Products - Saltwater Fish : Units are pCi/g

Fish Species	Nuclide	CollectDate	SampleCon	SampleStd	Sig
Sea Trout	Am-241	6-Feb-13	1.54E-05	1.09E-05	No
Sea Trout	Am-241	6-Feb-13	3.38E-05	1.71E-05	No
Sea Trout	Am-241	20-Feb-13	-1.08E-05	7.70E-06	No
Marine Mullet	Cm-244	23-Jan-13	-5.41E-07	4.81E-07	No
Marine Mullet	Cm-244	23-Jan-13	-5.41E-07	4.76E-07	No
Marine Mullet	Cm-244	23-Jan-13	1.54E-05	1.14E-05	No
Red Fish (drum)	Cm-244	20-Mar-13	-1.62E-07	1.42E-07	No
Red Fish (drum)	Cm-244	21-May-13	-5.62E-06	5.49E-06	No
Red Fish (drum)	Cm-244	21-May-13	-1.62E-07	1.40E-07	No
Sea Trout	Cm-244	6-Feb-13	0.00E+00	7.38E-03	No
Sea Trout	Cm-244	6-Feb-13	-5.41E-07	4.84E-07	No
Sea Trout	Cm-244	20-Feb-13	8.19E-06	8.19E-06	No
Marine Mullet	Tc-99	23-Jan-13	4.24E-02	2.36E-02	No
Marine Mullet	Tc-99	23-Jan-13	2.23E-02	2.09E-02	No
Marine Mullet	Tc-99	23-Jan-13	5.62E-03	2.02E-02	No
Red Fish (drum)	Tc-99	20-Mar-13	2.16E-02	2.35E-02	No
Red Fish (drum)	Tc-99	21-May-13	2.22E-02	2.34E-02	No
Red Fish (drum)	Tc-99	21-May-13	5.16E-02	2.39E-02	No
Sea Trout	Tc-99	6-Feb-13	5.41E-02	2.35E-02	No
Sea Trout	Tc-99	6-Feb-13	2.70E-02	2.34E-02	No
Sea Trout	Tc-99	20-Feb-13	5.97E-02	2.40E-02	No
Marine Mullet	Gross B	23-Jan-13	2.16E+00	3.11E-01	Yes
Marine Mullet	Gross B	23-Jan-13	2.32E+00	3.19E-01	Yes
Marine Mullet	Gross B	23-Jan-13	1.04E+00	2.47E-01	Yes
Red Fish (drum)	Gross B	20-Mar-13	2.92E+00	3.51E-01	Yes
Red Fish (drum)	Gross B	21-May-13	2.70E+00	3.38E-01	Yes
Red Fish (drum)	Gross B	21-May-13	3.22E+00	3.65E-01	Yes
Sea Trout	Gross B	6-Feb-13	1.50E+00	2.73E-01	Yes
Sea Trout	Gross B	6-Feb-13	1.97E+00	3.00E-01	Yes
Sea Trout	Gross B	20-Feb-13	1.56E+00	2.78E-01	Yes
Marine Mullet	Gross A	23-Jan-13	-5.59E-03	7.00E-02	No
Marine Mullet	Gross A	23-Jan-13	-5.68E-03	7.00E-02	No
Marine Mullet	Gross A	23-Jan-13	1.29E-01	1.19E-01	No
Red Fish (drum)	Gross A	20-Mar-13	-5.95E-03	7.08E-02	No
Red Fish (drum)	Gross A	21-May-13	-7.30E-02	2.64E-02	No
Red Fish (drum)	Gross A	21-May-13	-6.62E-03	7.76E-02	No
Sea Trout	Gross A	6-Feb-13	-7.03E-02	2.55E-02	No
Sea Trout	Gross A	6-Feb-13	-7.05E-02	2.56E-02	No
Sea Trout	Gross A	20-Feb-13	1.24E-01	1.14E-01	No