Table 3.4. Inventory of Key Radionuclides for TWRS Single-Shell Tanks

	Radionuclide Inventories in Curies*					
Site Name	**C-14**	**Cl-36**	**I-129**	**Se-79**	**Tc-99**	**U-238**
TK-A-S**	9.43E-02	0.00E+00	2.81E-02	1.68E-02	3.31E+01	7.36E-04
TK-A-L***	1.10E+00	0.00E+00	1.83E-01	1.96E-01	1.25E+02	8.57E-03
TK-A-R+	2.11E+00		1.71E-03	8.33E-02	1.15E+00	1.52E-01
TK-AX-S-1++	8.00E-02	0.00E+00	0.00E+00	0.00E+00	1.68E+00	0.00E+00
TK-AX-S-2	3.14E-02	0.00E+00	9.38E-03	5.60E-03	1.10E+01	2.45E-04
TK-AX-L-1	1.50E-02	0.00E+00	0.00E+00	0.00E+00	0.3156146	0.00E+00
TK-AX-L-2	3.14E-02	0.00E+00	5.14E-03	5.60E-03	3.43E+00	2.45E-04
TK-AX-R-1	2.75E-02		3.90E-05	1.95E-03	2.68E-02	2.13E-03
TK-AX-R-2	1.37E-01		1.95E-04	9.74E-03	1.34E-01	1.07E-02
TK-B-S	5.03E-01	0.00E+00	8.23E-02	8.96E-02	5.48E+01	3.92E-03
TK-B-L	2.12E-01	0.00E+00	3.46E-02	3.77E-02	2.31E+01	1.65E-03
TK-B-R	4.98E+00		2.02E-02	1.01E+00	1.39E+01	3.41E-01
TK-BX-S	3.77E-01	0.00E+00	6.17E-02	6.72E-02	4.11E+01	2.94E-03
TK-BX-L	3.79E-01	0.00E+00	6.20E-02	6.75E-02	4.13E+01	2.96E-03
TK-BX-R	9.18E+00		4.78E-02	2.39E+00	3.28E+01	4.87E-01
TK-BY-S	3.77E-01	0.00E+00	6.17E-02	6.72E-02	4.11E+01	2.94E-03
TK-BY-L	1.61E-01	0.00E+00	2.64E-02	2.88E-02	1.76E+01	1.26E-03
TK-BY-R	2.18E+00		1.76E-02	8.83E-01	1.22E+01	7.93E-01
TK-C-S-1	5.80E-02	0.00E+00	2.16E-03	5.60E-03	3.27E+00	2.35E-04
TK-C-S-2	3.46E-01	0.00E+00	5.66E-02	6.16E-02	3.77E+01	2.70E-03
TK-C-L-1	1.50E-03	0.00E+00	1.80E-04	4.67E-04	2.02E-01	1.96E-05
TK-C-L-2	1.07E-01	0.00E+00	1.75E-02	1.91E-02	1.17E+01	8.35E-04
TK-C-R-1	9.49E-01		3.53E-03	1.68E-01	2.32E+00	3.05E-01
TK-C-R-2	8.79E-01		3.27E-03	1.55E-01	2.15E+00	2.83E-01
TK-S-S	3.14E-01	0.00E+00	5.99E-02	5.60E-02	4.95E+01	2.45E-03
TK-S-L	9.43E-02	0.00E+00	1.54E-02	1.68E-02	1.03E+01	7.36E-04
TK-S-R	3.82E+00		2.38E-02	1.19E+00	1.65E+01	1.82E-01
TK-SX-S-1	5.99E-03	0.00E+00	7.21E-04	1.87E-03	8.08E-01	7.84E-05
TK-SX-S-2	3.46E-01	0.00E+00	6.93E-02	6.16E-02	6.05E+01	2.70E-03
TK-SX-L-2	6.30E-01	0.00E+00	1.06E-01	1.12E-01	7.45E+01	4.92E-03
TK-SX-R-1	1.94E-01		2.17E-03	1.09E-01	1.50E+00	1.69E-02
TK-SX-R-2	1.68E+00		1.88E-02	9.50E-01	1.30E+01	1.47E-01
TK-T-S	5.03E-01	0.00E+00	8.23E-02	8.96E-02	5.48E+01	3.92E-03
TK-T-L	5.28E-01	0.00E+00	8.65E-02	9.41E-02	5.76E+01	4.12E-03
TK-T-R	1.50E-01		5.09E-04	2.57E-02	3.51E-01	8.05E-02
TK-TX-S	1.89E-01	0.00E+00	3.09E-02	3.36E-02	2.06E+01	1.47E-03

	Radionuclide Inventories in Curies*					
Site Name	**C-14**	**Cl-36**	**I-129**	**Se-79**	**Tc-99**	**U-238**
TK-TX-L	2.30E-01	0.00E+00	3.76E-02	4.09E-02	2.51E+01	1.79E-03
TK-TX-R	2.91E+00		1.35E-02	6.76E-01	9.34E+00	1.56E+00
TK-TY-R	4.81E-01		5.34E-03	2.68E-01	3.68E+00	7.78E-02
TK-U-S	4.40E-01	0.00E+00	8.05E-02	7.84E-02	6.32E+01	3.43E-03
TK-U-L	3.99E-01	0.00E+00	6.53E-02	7.11E-02	4.35E+01	3.11E-03
TK-U-R	1.35E-01		1.32E-03	6.52E-02	9.08E-01	3.10E-01

* Inventories are decayed to a common date of 2050.

** "S" refers to sluicing losses during recovery of tank wastes. The inventory is based on an 8,000-gallon-per-tank loss and radionuclide concentrations developed from tank characterization reports.

*** "L" refers to past tank leaks as identified in Hanlon (1997). The inventories are based on leak volumes from Hanlon and radionuclide concentrations developed from tank characterization reports.

\+ "R" refers to residual wastes remaining in tank after tank waste recovery. Inventories are based on 1% of tank farm inventory reported in the TWRS EIS (DOE and Ecology 1996).

++ "1" and "2" refer to complexed and non-complexed waste, respectively.