

**Relative Standard Deviations for Solid Sample-Based Compositions (RPP-8847)**

Waste Type					
	1C	UR/TBP	TFeCN	CWP1	CWP2
Al	0.67	0.34	0.34	0.2	0.2
Bi	0.21	0.25	NR	NR	NR
Ca	0.6	0.39	0.39	1	0.81
Cl	0.39	0.64	0.64	1.81	1.81
TIC as CO <sub>3</sub>	1.14	0.5	0.5	0.68	0.68
Cr	0.39	0.52	0.52	2.79	2.79
F	0.77	1.62	1.62	7.48	7.48
Fe	0.19	0.14	0.14	1.07	1.07
Hg	1.32	NR	0.38	NR	NR
K	0.75	0.51	0.51	NR	NR
La	1	1	1.36	NR	0.79
Mn	0.89	0.35	0.35	0.92	0.92
Na	0.37	0.17	0.17	0.88	0.88
Ni	0.69	0.14	0.14	NR	4.96
NO <sub>2</sub>	1.55	0.72	0.72	2.09	2.09
NO <sub>3</sub>	0.75	0.3	0.3	3.95	3.95
Free OH	NR	NR	NR	NR	NR
Pb	0.91	0.62	0.62	2.94	2.94
PO <sub>4</sub>	0.53	0.36	0.36	5.32	5.32
Si	0.92	0.49	0.49	0.71	0.71
SO <sub>4</sub>	0.66	1.15	1.15	0.63	0.63
Sr	0.24	0.33	0.33	1.03	1.03
TOC	0.68	0.33	0.33	1.67	1.67
U <sub>TOTAL</sub>	1.07	0.39	0.39	17.37	17.37
Zr	0.96	0.47	0.47	1.58	1.58
<sup>3</sup> H	0.7	NR	1	NR	1
<sup>14</sup> C	1.01	NR	NR	NR	NR
<sup>59</sup> Ni	NR	NR	1	NR	NR
<sup>60</sup> Co	NR	NR	NR	NR	1
<sup>63</sup> Ni	NR	NR	1	NR	NR
<sup>90</sup> Sr	0.69	0.7	0.7	NR	NR
<sup>99</sup> Tc	3.81	NR	NR	NR	NR
<sup>134</sup> Cs	NR	NR	NR	NR	NR
<sup>137</sup> Cs	0.88	1	1	1.53	NR
<sup>154</sup> Eu	NR	NR	NR	NR	NR
<sup>232</sup> Th	NR	NR	NR	NR	NR
<sup>238</sup> Pu	NR	NR	NR	NR	1
<sup>241</sup> Am	NR	NR	0.17	NR	NR
Density	0.08	0.07	0.07	0.08	0.08
wt% Water	0.19	0.17	0.17	0.5	0.5

RPP-RPT-42323 Rev. 4, Appendix D.3  
BBI Template Uncertainties

Spreadsheet Documentation

Spreadsheet Name
Related Documents
Purpose
Overview
Worksheet Descriptions
Macros and Add-in software
Key Assumptions
Units
Input Data
Verification Date

D_3 BBI Template Uncertainties
RPP-RPT-42323, Hanford C-Farm Tank and Ancillary Equipment Residual Waste Inventory Estimates
This spreadsheet is copied from RPP-8847, Rev. 1B, Best-Basis Inventory Template Compositions of Common Tank Waste Layers, and provides the technical basis for sample based template concentration RSDs in the BBI calculation detail report (Appendix D-2).
This spreadsheet shows standard deviations in past sample results for 5 sludge waste types sample templates used in the BBI for C Farm single-shell tanks. The basis for the standard deviations is presented in RPP-8847.

BBI Template RSDs: This worksheet contains sample based template values from RPP-8847.
RPP-RPT-42323 Worksheet: This is a title page for this spreadsheet.
None
None
Units are as specified in the BBI Template RSDs worksheet
Inputs are from RPP-8847.
Not applicable