Table 6-1: Treatment Requirements for Hazardous Waste (Inorganic Constituents)
(Total Volume Requiring Treatment, 35,765 yd^3)

INORGANIC CONSTITUENTS

Total Waste
Total Volume (yd^3)= 483,647
Treated Volume % = 7

SSSTF
Treated Volume (yd^3)= 35,765
Organic Volume % = 0.0

Organic Treatment
Listed Volume (yd^3)= 0

WAG	yd^3	Cadmium	Chromium	Lead	Mercury	Silver	Characteristic Waste Code(s)	Listed Waste Code(s)
Concentration	0	All Waste Streams are Below RCRA LDR Requirements for Organic Treatment						
TC Maximum Limit (mg/kg) X 20 =		20	100	100	4.0	100		
10x UTS (LDR) Maximum Limit (mg/kg) X 20 =		22	120	150	4.0	28		

Stabilization
Characteristic Volume (yd^3)= 35,765

Concentration (mg/kg)

WAG		yd^3	Cadmium	Chromium	Lead	Mercury	Silver	Characteristic Waste Code(s)	Listed Waste Code(s)
5	ARA-12	1,966	25	469	158	1.40	295	D00- 6,7,8,11	
a 10	Borax-01	11,110	111	938	3,330	5.40	1	D00- 6,7,8,9,11	
4	CFA-04	800	6.8	237	49	439	121	D00- 7, 9, 11	
FF 3	CPP-92	1,370				10.4		D009	F00-1,2,5,& U134
#, FF 3	CPP-98	250	No data available in the CWID database.						F00-1,2,5,& U134
#, FF 3	CPP-99	126							F00-1,2,5,& U134
	D&D&D	72	MLLW & HW: Some data available in CWID document to support stabilization. No data available in the CWID database.						
b 1	WRRTF-1	20,070		543	2,350	18.0		D00- 7,8,9	
# 1	TSF-07	1	PPE: Waste to be shredded and grouted. No data available in the CWID database.						
TC Maximum Limit (mg/kg) X 20 =			20	100	100	4.0	100		
10x UTS (LDR) Maximum Limit (mg/kg) X 20 =			22	120	150	4.0	28		

To Be Landfilled
Landfill Volume (yd^3)= 447,882

Concentration (mg/kg)

WAG		yd^3	Cadmium	Chromium	Lead	Mercury	Silver	Characteristic Waste Code(s)	Listed Waste Code(s)
5	ARA-23	46,500							
5	ARA-01	2,382							
a 10	Borax-08	131	3.10	23.7	46.0		ND		
4	CFA-04	7,555							
3	CPP-37B	102,439	1.80	27.0	22.6	0.090	8.50		
D 3	CPP-67	99,260	7.20	81.1	15.0	36.2	20.9	D009	
3	CPP-34	27,352	1.00	28.0	132	0.600	2.50		
D 3	CPP-36/91	12,520	3.30	37.3	17.2	16.6	ND	D009	
D 3	CPP-14	11,046	0.83	60.7	211	4.00	48.9	D00- 8, 11	
3	CPP-03	10,940							
3	CPP-37A	10,889	1.50	30.1	17.7	0.96	ND		
3	CPP-01/04/0	4,260							
3	CPP-13	4,022	ND	17.1	13.9	0.910	ND		
3	CPP-19	3,780	0.96	24.3	10.1	0.150	ND		
D 3	CPP-08/09	3,100							
FF 3	CPP-93	2,667				140		D009	
3	CPP-97	1,500	0.38	14.0	8.4	0.100	0.280		F00-1,2,5,& U134
3	CPP-11	1,491	1.70	23.7	8.8	0.050	ND		
3	CPP-10	422							
D 3	CPP-55	370							
3	CPP-35	311	1.40			17.0		D009	
D 3	CPP-48	296	ND	15.4	9.6	0.950	ND		
3	CPP-44	89	8.40	1,540	281	5.00	ND	D00- 7, 8	
# 3	CPP-69	61	No data available in the CWID database.						
#	D&D&D	70,585	LW: Some data available in CWID document. No data available in the CWID database						
#	IDW	79	No data available in the CWID database.						
F 1	TSF-26	10,216	3.50	47.4	38.4	0.262	ND		F001
#, FF 1	TSF-06, Are	8,181	No data available in the CWID database.						F001
F 1	TSF-09/18	4,365	2.70	32.2	27.9	ND	ND		F001
#, b 1	TSF-03	1,074	No data available in the CWID database.						F001
TC Maximum Limit (mg/kg) X 20 =			20	100	100	4.0	100		
10x UTS (LDR) Maximum Limit (mg/kg) X 20 =			22	120	150	4.0	28		

Key: Characteristic Wastes (Metals)

Arsenic	As	D004
Barium	Ba	D005
Cadmium	Cd	D006
Chromium	Cr	D007
Lead	Pb	D008
Mercury	Hg	D009
Selenium	Se	D010
Silver	Ag	D011

LEGEND
- XXXXXX / Volume = ____ : Total Waste Volume by Process
- ____ : Maximum Inorganic Concentration (mg/kg)
- ND = Not Detected
- " Blank " = Not Analyzed

NOTE: Total waste volume does not include INTEC Tank Farm (Exception: Tank Farm IDW)

FF = Listed In CWID EDF As Carrying An F001 Code, But Are Assumed (By WAG Representatives) to NOT Contain Significant Quantities of Organics.
F = Listed In CWID EDF & CWID Data Base As Carrying An F001 Code, But The Concentrations Are Below The RCRA LDR Concentrations.
# = There is no usable contaminant data for this site, only a volume. Therefore it is not in the CWID e-base.
D = Waste exceeding 20 x TLCP, within WAG 3 AOC.
a = Designated in the WAG 10 RI/FS as a no action site. WAG 10 ROD has not yet been signed.
b = Selected Remedy in the WAG 1 ROD, Section 9.1.4, Indicates Native Soil Cover.

Table 6-2: Treatment Requirements for Hazardous Waste (Organic Constituents) (Total Volume Requiring Treatment, 0 yd3)

ORGANIC CONSTITUENTS

Total Waste
Total Volume (yd^3)= 483,647
Treated Volume % = 7

SSSTF
Treated Volume (yd^3)= 35,765
Organic Volume % = 0.0

Organic Treatment
Listed Volume (yd^3)= 0

Stabilization
Characteristic Volume (yd^3)= 35,765

Landfill
Landfill Volume (yd^3)= 447,882

Concentration (mg/kg)

WAG	yd^3	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,2-Dichlorobenzene	Benzene	Carbon Disulfide	Chlorobenzene	Isobutyl alcohol	Methylene Chloride	Tetrachloroethene	Toluene	Trichloroethene	Characteristic Waste Code(s)	Listed Waste Code(s)
0	0	All Waste Streams are Below RCRA LDR Requirements for Organic Treatment												
10 x UTS LDR Conc. (mg/kg) =		60	60	60	100	100	60	1700	300	60	100	60		

Concentration (mg/kg)

	WAG		yd^3	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,2-Dichlorobenzene	Benzene	Carbon Disulfide	Chlorobenzene	Isobutyl alcohol	Methylene Chloride	Tetrachloroethane	Toluene	Trichloroethene	Characteristic Waste Code(s)	Listed Waste Code(s)
	5	ARA-12	1,966	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	D00- 6,7,8,11	
a	10	Borax-01	11,110	ND	0.0090	ND	5.00	0.140	1.20	ND	0.290	0.0089	98	0.055	D00- 6,7,8,9,11	
	4	CFA-04	800	ND	ND	ND	ND	ND	ND		ND	ND	0.001	ND	D00- 7, 9, 11	
FF	3	CPP-92	1,370												D009	F00-1,2,5,& U134
#, FF	3	CPP-98	250	Listed as carrying F001, F002, F005 & U134 codes, no organic data is found in the CWID database												F00-1,2,5,& U134
#, FF	3	CPP-99	126													F00-1,2,5,& U134
		D&D&D	72	MLLW & HW. Some data available in CWID document to support stabilization. No data available in the CWID database.												
b	1	WRRTF-1	20,070	0.033	ND	ND	ND	ND	ND		0.013	0.056	0.240	0.200	D00- 7,8,9	
#	1	TSF-07	1	PPE. Waste to be shredded and grouted. No data available in the CWID database.												
10 x UTS LDR Conc. (mg/kg) =				60	60	60	100	100	60	1700	300	60	100	60		

Concentration (mg/kg)

	WAG		yd^3	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,2-Dichlorobenzene	Benzene	Carbon Disulfide	Chlorobenzene	Isobutyl alcohol	Methylene Chloride	Tetrachloroethane	Toluene	Trichloroethene	Characteristic Waste Code(s)	Listed Waste Code(s)
	5	ARA-23	46,500													
	5	ARA-01	2,382													
a	10	Borax-08	131													
	4	CFA-04	7,555	ND	ND	ND	ND	ND	ND		ND	ND	0.001	ND		
	3	CPP-37B	102,439								0.290					
D	3	CPP-67	99,260								0.011				D009	
	3	CPP-34	27,352													
D	3	CPP-36/91	12,520	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	D009	
D	3	CPP-14	11,046								0.120	0.0010	0.029		D00- 8, 11	
	3	CPP-03	10,940													
	3	CPP-37A	10,889	0.005							0.140		0.0010			
	3	CPP-01/04/0	4,260													
	3	CPP-13	4,022													
	3	CPP-19	3,780													
D	3	CPP-08/09	3,100													
FF	3	CPP-93	2,667												D009	
	3	CPP-97	1,500	Listed as carrying F001, F002, F005 & U134 codes, no organic data is found in the CWID database												F00-1,2,5,& U134
	3	CPP-11	1,491													
	3	CPP-10	422													
D	3	CPP-55	370	ND	ND		ND	ND	ND	ND	0.021	ND	ND	ND		
	3	CPP-35	311												D009	
D	3	CPP-48	296	ND	ND		ND	ND	ND		ND	ND	ND	ND		
	3	CPP-44	89	0.005	ND	ND	ND	ND	ND		0.050	ND	ND	ND	D00- 7, 8	
#	3	CPP-69	61	No data available in the CWID database.												
#		D&D&D	70,585	LLW: Some data available in CWID document. No data available in the CWID database.												
#		IDW	79	No data available in the CWID database.												
F	1	TSF-26	10,216	ND	ND	0.460	ND	ND	ND		0.006	ND	0.008	ND		F001
#, FF	1	TSF-06, Are	8,181	Listed as carrying F001code, no organic data is found in the CWID database												F001
F	1	TSF-09/18	4,365	ND	ND	ND	ND	ND	ND		ND	ND	ND	0.009		F001
#, b	1	TSF-03	1,074	No data available in the CWID database.												F001
10 x UTS LDR Conc. (mg/kg) =				60	60	60	100	100	60	1700	300	60	100	60		

KEY: Hazardous "listed" Wastes

C6H5CH3	Toluene	F005
CH3(CH2)3OH	Isobutyl alcohol	F005
C6H6	Benzene	F005
CS2	Carbon disulfide	F005
C2Cl4	Tetrachloroethylene	F001, F002
CH2Cl2	Methylene chloride	F001, F002
TCE	Trichloroethylene	F001, F002
1,1,1-TCA	1,1,1-Trichloroethane	F001, F002
1,1,2-TCA	1,1,2-Trichloroethane	F002
C6H5Cl	Chlorobenzene	F002
1,2-Cl2C6H4	1,2-Dichlorobenzene	F002

LEGEND

XXXXXX
Volume = _____ } Total Waste Volume by Process

[ ] } Maximum Organic Concentration (mg/kg)

ND } = Not Detected

" Blank " } = Not Analyzed

NOTE: Total waste volume does not include INTEC Tank Farm (Exception: Tank Farm IDW)

FF = Listed In CWID EDF As Carrying An F001 Code, But Are Assumed (By WAG Representatives) to NOT Contain Significant Quantities of Organics.
F = Listed In CWID EDF & CWID Data Base As Carrying An F001 Code, But The Concentrations Are Below The RCRA LDR Concentrations
# = There is no usable contaminant data for this site, only a volume. Therefore it is not in the CWID e-base.
D = Waste exceeding 20 x TLCP, within WAG 3 AOC.
a = Designated in the WAG 10 RI/FS as a no action site. WAG 10 ROD has not yet been signed.
b = Selected Remedy in the WAG 1 ROD, Section 9.1.4, Indicates Native Soil Cover.

Table 6-3: Treatment Requirements for PCB-Containing Waste
(Total Volume Requiring Treatment, 0 yd^3)

Total Waste

Total Volume (yd^3)= 483,647

Treated Volume % = 7

SSSTF

Treated Volume (yd^3)= 35,765

Organic Volume % = 0.0

Organic Treatment

Listed Volume (yd^3)= 0

WAG	yd^3	Concentration (PPM) Aroclor-1016	Aroclor-1254	Aroclor-1260	Aroclor-1268	Total Max PPM	Characteristic Waste Code(s)	Listed Waste Code(s)
	0	All Waste Streams are Below RCRA LDR Requirements for Organic Treatment				0		
						TSCA Treatment Level (PPM) =	500	

Stabilization

Characteristic Volume (yd^3)= 35,765

WAG		yd^3	Concentration (PPM) Aroclor-1016	Aroclor-1254	Aroclor-1260	Aroclor-1268	Total Max PPM	Characteristic Waste Code(s)	Listed Waste Code(s)
5	ARA-12	1,966	ND	ND	0.130		0.13	D00- 6,7,8,11	
a 10	BORAX-01	11,110	ND	ND	0.008	1.23	1.24	D00- 6,7,8,9,11	
4	CFA-04	800	0.380	2.800	ND		3.18	D00- 7, 9, 11	
FF 3	CPP-92	1,370					0	D009	F00-1,2,5,& U134
#, FF 3	CPP-98	250	No data available in the CWID database.						F00-1,2,5,& U134
#, FF 3	CPP-99	126							F00-1,2,5,& U134
	D&D&D	72	MLLW & HW: Some data available in CWID document to support stabilization. No data available in the CWID database.						
b 1	WRRTF-01	20,070					0	D00- 7,8,9	
# 1	TSF-07	1	PPE: Waste to be shredded and grouted. No data available in the CWID database.						
							TSCA Treatment Level (PPM) =	500	

Landfill

Landfill Volume (yd^3)= 447,882

WAG		yd^3	Concentration (PPM) Aroclor-1016	Aroclor-1254	Aroclor-1260	Aroclor-1268	Total Max PPM	Characteristic Waste Code(s)	Listed Waste Code(s)
5	ARA-23	46,500					0		
5	ARA-01	2,382					0		
a 10	BORAX-08	131					0		
4	CFA-04	7,555	0.380	2.800	ND		3.18		
3	CPP-37B	102,439		0.230	0.420		0.65		
D 3	CPP-67	99,260					0	D009	
3	CPP-34	27,352					0		
D 3	CPP-36/91	12,520					0	D009	
D 3	CPP-14	11,046		0.120	23.000		23.12	D00- 8, 11	
3	CPP-03	10,940					0		
3	CPP-37A	10,889					0		
3	CPP-01/04/05	4,260					0		
3	CPP-13	4,022					0		
3	CPP-19	3,780					0		
D 3	CPP-08/09	3,100					0		
FF 3	CPP-93	2,667					0	D009	
3	CPP-97	1,500					0		F00-1,2,5,& U134
3	CPP-11	1,491					0		
3	CPP-10	422					0		
D 3	CPP-55	370					0		
3	CPP-35	311					0	D009	
D 3	CPP-48	296					0		
3	CPP-44	89					0	D00- 7, 8	
# 3	CPP-69	61	No data available in the CWID database.				0		
#	D&D&D	70,585	LLW: Some data available in CWID document. No data available in the CWID database.						
#	IDW	79	No data available in the CWID database.						
F 1	TSF-26	10,216	ND	ND	ND	ND	0		F001
#, FF 1	TSF-06	8,181	No data available in the CWID database.						F001
F 1	TSF-09/18	4,365	ND	1.085	0.053	ND	1.14		F001
#, b 1	TSF-03	1,074	No data available in the CWID database.						
							TSCA Treatment Level (PPM) =	500	

FF = Listed In CWID EDF As Carrying An F001 Code, But Are Assumed (By WAG Representatives) to NOT Contain Significant Quantities of Organics.
F = Listed In CWID EDF & CWID Data Base As Carrying An F001 Code, But The Concentrations Are Below The RCRA LDR Concentrations.
# = There is no usable contaminant data for this site, only a volume. Therefore it is not in the CWID e-base.
D = Waste exceeding 20 x TLCP, within WAG 3 AOC.
a = Designated in the WAG 10 RUFC as a no action site. WAG 10 ROD has not yet been signed.
b = Selected Remedy in the WAG 1 ROD, Section 9.1.4, Indicates Native Soil Cover.

PCB CONSTITUENTS

LEGEND

XXXXXX
Volume = xxxx
} Total Waste Volume by Process

} Maximum PCB Concentration (PPM)

ND = Not Detected

" Blank " = Not Analyzed

NOTE: Total waste volume does not include INTEC Tank Farm (Exception: Tank Farm IDW)

Table 6-4: Treatment Requirements for Radionuclides

Total Waste
Total Volume (yd^3)= 483,647
Treated Volume % = 7

SSTSF
Treated Volume (yd^3)= 35,765
Organic Volume % = 0.0

Organic Treatment
Listed Volume (yd^3)= 0

Stabilization
Characteristic Volume (yd^3)= 35,765

Landfill
Landfill Volume (yd^3)= 447,882

(1) Radionuclide Specific Activity

Activity (pCi/g)

WAG		yd^3	Ag-108M γ	Ce-144 β	Co-57 γ	Co-60 β	Cs-134 β	Cs-137 β	Eu-152 β	Eu-154 β	Eu-155 β	I-129 β	K-40 β	Ra-226 α	Ru-106 β	Sb-125 β	Sr-90 β	Tc-99 β	Th-228 α	Th-230 α	Th-230/U-234 α	Th-232 α	Tritium β	U-233/234 α	U-234 α	U-235 α	U-235/236 α	U-238 α	Am-241 α	AM-241 AND/OR PU-238 α	Np-237 α	Pu-238 α	Pu-239 α	Pu-239/240 α	TRU SUM	
		0	All Waste Streams are Below RCRA LDR Requirements for Organic Treatment																																Max Transuranic Concentration (pCi/g) = 10,000	
5	ARA-12	1,966	64 16			8 26		3 64								0 689								3.00	ND		1.80	0.197	ND		0.131		0.050	0.4	ARA-12
a 10	Borax-01	11,110	24 80	ND	ND	641	ND	1.475	0.048	0.112	0.041		21.00			0.002	0 189							1.44	0.600		1.40	0.442	ND		0.086	0.050		0.6	Borax-01
4	CFA-04	800	ND	ND	ND	0.025	ND	1.724	ND		0.051		23.10	4.14	ND	ND	5.39							1.04	22.60	1.60		35.00	ND	ND					0.0	CFA-04
FF 3	CPP-92	1,370				1.49	0.195	6,530				3.10				2.07	9.040							5.10	0.230			23.32	ND	0.150	244		24.69	292.6	CPP-92
#, FF 3	CPP-98	250	No data available in the CWID database.																									No data available in the CWID database.							CPP-98
#, FF 3	CPP-99	126																																		CPP-99
	D&D&D	72	MLLW & HW: Some data available in CWID document to support stabilization. No data available in the CWID database.																									No data available in the CWID database.							D&D&D
b 1	WRRTF-1	20,070				0.050		0.908								ND								1.00	ND		1.20	ND	ND		ND		7.90	7.9	WRRTF-1
# 1	TSF-07	1	PPE: Waste to be shredded and grouted. No data available in the CWID database																									No data available in the CWID database							TSF-07
																																			Max Transuranic Concentration (pCi/g) = 10,000	

Actilvity (pCi/g)

WAG		yd^3	Ag-108M γ	Ce-144 β	Co-57 γ	Co-60 β	Cs-134 β	Cs-137 β	Eu-152 β	Eu-154 β	Eu-155 β	I-129 β	K-40 β	Ra-226 α	Ru-106 β	Sb-125 β	Sr-90 β	Tc-99 β	Th-228 α	Th-230 α	Th-230/U-234 α	Th-232 α	Tritium β	U-233/234 α	U-234 α	U-235 α	U-235/236 α	U-238 α	Am-241 α	AM-241 AND/OR PU-238 α	Np-237 α	Pu-238 α	Pu-239 α	Pu-239/240 α	TRU SUM	
5	ARA-23	46,500	ND	ND		ND	ND	1,932	ND	ND	ND			11 88	ND	ND	18 85		0 287	1 53		1 38			0 745	0 047		0 867	0 031	ND		ND	0 049		0.1	ARA-23
5	ARA-01	2,382	ND	ND		ND	ND	1 38	ND	ND	ND			3.07	ND	ND	0 563								1 09	0 116		0 977	0 112	ND		0 014	0 533		0.7	ARA-01
a 10	Borax-08	131				1.13		1,785									N D		0 146		3.50	2.12			0 860			1 56		0 036			0 038		0.1	Borax-08
4	CFA-04	7,555	ND	ND	ND	0.025	ND	1 724	ND		0.051		23 10	4 14	ND	ND	5 39							1 04	22 60	1 60		35 00	ND	ND					0.0	CFA-04
3	CPP-37B	102,439		ND		0 019		5 04				1 57			ND	ND	3 40								1 21	0 070		7 44	1 07	ND	0 860	0 463		ND	2.4	CPP-37B
D 3	CPP-67	99,260		ND		0 626	0 105	73 65				3 70			0 006	0 153	12 77						0 340		2 75	0 070	0 100	2 60	7 68	ND	1 63	12 01		2 07	23.4	CPP-67
3	CPP-34	27,352						1,949									5 835								2 50			2 80		ND	1 000	5 06			6.1	CPP-34
D 3	CPP-36/91	12,520		ND		ND	30 14	4,112,000		2,298	ND		33 70		ND	ND	109,700	54 00							12 60	0 100		1 84	752	ND	0 037	7,607		324	8,682.7	CPP-36/91
D 3	CPP-14	11,046		ND		ND	ND	4 91				ND			ND	0 008	0 836								6 89	0 680		52 10	1 131	ND	5 50	ND		ND	6.6	CPP-14
3	CPP-03	10,940						53	1 35								35 30													ND					0.0	CPP-03
3	CPP-37A	10,889		ND		0 151	ND	3 05				ND			ND	ND	0 544								0 710	0 050		3 99	0 975	ND	1 07	0 111		ND	2.2	CPP-37A
3	CPP-01/04/0	4,260		880	0 358	2,062	994	44,830	33 050	32,040	6,497						4,720									0 039		0 250	2 236	ND				12 00	14.2	CPP-01/04/05
3	CPP-13	4,022		ND		0 376	0 065	3 976		18 39	ND				ND	ND	3,559	2 70												ND					0.0	CPP-13
3	CPP-19	3,780				18,640	0 007	397 600	82 730	48 970	8,224		20 10				121,600	23 00								2 36		0 453	1 966	ND				141	143.0	CPP-19
D 3	CPP-08/09	3,100						1,053	4 14	2 70							141									0 026		0 161		ND					0.0	CPP-08/09
FF 3	CPP-93	2,667																																		0.0	CPP-93
3	CPP-97	1,500		ND		0 038	0 0213	98 16		0 287	ND				ND	ND	282	2 20							1 00	ND		1 00	0 168	ND	0 170	0 408		0 090	0.8	CPP-97
3	CPP-11	1,491		ND		0 257	ND	62 510		1 07	ND				ND	ND	702	23 00							1 20	ND		1 00	ND	ND	0 150	ND		ND	0.2	CPP-11
3	CPP-10	422				2 74		1,160	8 65	5 22	1 27						1 732									0 014		0 210		ND					0.0	CPP-10
D 3	CPP-55	370																																		0.0	CPP-55
3	CPP-35	311						6,972		5 657			23 60				2 584								1 02	0 072		1 14	1 192	ND		12 26		0 725	14.2	CPP-35
D 3	CPP-48	296		ND		ND	ND	53 63		ND	0 208				ND	0 653									2 50	ND		2 70	ND	ND	ND	0 084		ND	0.1	CPP-48
3	CPP-44	89																																		0.0	CPP-44
# 3	CPP-69	61	No data available in the CWID database.																									No data available in the CWID database.							CPP-69
#	D&D&D	70,585	LLW: Some data available in CWID document. No data available in the CWID database.																									No data available in the CWID database.							D&D&D
#	IDW	79	No data available in the CWID database.																									No data available in the CWID database.							IDW
F 1	TSF-26	10,216						6 93																						ND					0.0	TSF-26
#, FF 1	TSF-06, Are	8,181	No data available in the CWID database.																									No data available in the CWID database.							TSF-06, Area B
F 1	TSF-09/18	4,365				0 101		84 50																						ND					0.0	TSF-09/18
#, b 1	TSF-03	1,074	No data available in the CWID database.																									No data available in the CWID database.							TSF-03
																																			Max Transuranic Concentration (pCi/g) = 10,000	

LEGEND
- XXXXXX / Volume = XXXX — Total Waste Volume by Process
- Maximum Radionuclide Concentration (pCi/g)
- Maximum Transuranic Concentration (pCi/g)
- ND = Not Detected
- " Blank " = Not Analyzed

NOTE: Total waste volume does not include INTEC Tank Farm (Exception: Tank Farm IDW)

FF = Listed In CWID EDF As Carrying An F001 Code, But Are Assumed (By WAG Representatives) to NOT Contain Significant Quantities of Organics.
F = Listed In CWID EDF & CWID Data Base As Carrying An F001 Code, But The Concentrations Are Below The RCRA LDR Concentrations.

= There is no usable contaminant data for this site, only a volume. Therefore it is not in the CWID e-base.

D = Waste exceeding 20 x TLCP, within WAG 3 AOC.
a = Designated in the WAG 10 RI/FS as a no action site. WAG 10 ROD has not yet been signed.
b = Selected Remedy in the WAG 1 ROD, Section 9.1.4, Indicates Native Soil Cover.

(1) =[Radionuclides are decayed to January 1, 2002]
Radionuclides below .001 pCi/g were not included in this table. Concentrations less than .001 pCi/g are below practicable detection limits. See appendix A for a complete listing of the maximum detected radionuclide specific activity.

7. PURGE AND DEVELOPMENT WATER

Purge and development water will be generated from sampling and drilling activities of WAG 3 Group 4 (perched water in the vadose zone), Group 5 (Snake River Plain Aquifer [SRPA]), as identified in the WAG 3 OU 3-13 ROD and the OU 3-14 Remedial Investigation / Feasibility Study. Generation of water is expected to begin in November 2000. The water will eventually be disposed of in the ICDF evaporation pond, which is not expected to be available until early FY 2004. Therefore, the SSSTF will need to plan water storage for approximately three years.

Purge and development water will be stored in tanks at the Staging and Storage Annex (SSA) until the ICDF evaporation pond becomes available for disposal of the water. A waste management plan for this waste has been submitted and approved by the agencies. Once the evaporation pond is online, the water will be transported by tanker trucks through the SSSTF to the ICDF evaporation pond, where the water will be pumped to the evaporation pond. The evaporation pond will be available to treat the anticipated volumes of this water, as well as secondary waste and leachate from the landfill.

Purge and development water is groundwater withdrawn from wells for:

- Developing newly constructed groundwater monitoring wells
- Purging existing wells prior to sample collection
- Aquifer testing
- Periodic cleaning and renovating of existing groundwater monitoring wells.

7.1 OU 3-13 Group 4 (Perched Water) Purge Water

Perched water at INTEC has been contaminated by leaching and downward transport of contaminants, primarily Sr-90 and tritium from the overlying surface soils, and from two instances where the INTEC injection well collapsed and service wastewater was released to the perched zones. It is anticipated that the contaminants of concern (COCs) for the Group 4 waters are going to be higher for Sr-90 and tritium in the upper perched water body, with upper limits at 500,000 pCi/L for Sr-90 and 600,000 pCi/L for tritium. The deeper perched zone is expected to contain Sr-90, Cs-137, Pu-239/240, and Hg. Contaminants in the perched water are a source of future SRPA contamination. The primary man-made source of perched water recharge is the percolation ponds.

A drilling and sampling program to monitor contaminant levels in Group 4 perched water will generate a significant amount of well purge water. Activities for Group 4 are broken into two phases. Phase 1 consists of drilling wells and conducting tracer tests in order to examine recharged sources. Phase 2, scheduled to begin in 2002, includes ongoing monitoring of remedial wells. It is expected that new wells will be drilled in November 2000, in order to conduct tracer test and annual sampling, beginning in March 2001.

It is anticipated that a total of approximately 29,800 gal of purge water from Group 4 will be generated beginning in November 2000. Purge water volumes and associated activities generating the water are listed in Appendix J. Appendix J illustrates the total estimated volume of wastewater generation (from Group 4, Group 5, and OU 3-14) with respect to the availabilities of the SSSTF and ICDF evaporation pond.

7.2 OU 3-13 Group 5 Purge Water

The main source of contamination in the SRPA originates from the former injection well at INTEC (CPP-23). The main COCs for Group 5 are Sr-90 and tritium. Tank Farm soils and the former injection well were the primary sources for Sr-90 contamination. Sr-90 levels are expected to peak at approximately 80 pCi/L, with the majority below 20 pCi/L, much lower than the levels encountered in the Group 4 perched water. In addition, sampling from 1992 revealed the presence of I-129 at levels of approximately 3 pCi/L, with the primary source being the former injection well. COC levels are listed in the WAG 3 Remedial Investigation/Feasibility Study (RI/FS) water quality summary table.

It is anticipated that approximately 197,000 gal of purge water will be generated from Group 5 drilling and sampling activities. Purge water volumes and associated activities generating the water are listed in Appendix J and included in the total wastewater generation figure. For designing purposes, the anticipated estimate will be used, noting that the volume of purge water generated could range between the estimated maximum and minimum volumes.

7.3 OU 3-14 Purge Water

It is anticipated that water will be generated in FY 2002 as a result of drilling three new wells. Two new wells will be drilled to the aquifer at approximately 25 and 400 ft from the old injection wells. Waste streams will be characterized and managed appropriately.

It is expected that 36,000 gal of purge water will be generated from OU 3-14, using standard purging techniques. Purge water volumes for OU 3-14 are shown in Appendix J and included in the total water generation.

8. REFERENCES

1. DOE/ID-10803 Revision B September 2000, *CERCLA Waste Inventory Database Report for the Operable Unit 3-13 Waste Disposal Complex (DRAFT).*

2. U.S. Department of Energy Idaho Operations Office, *Final Record of Decision, Idaho Nuclear Technology and Engineering Center*, Operable Unit 3-13, Idaho National Engineering and Environmental Laboratory, DOE/ID-10660, Rev. 0, October 1999.

3. Aspen Law and Business, *RCRA Regulations & Keyword Index 2000 Edition*, Land Disposal Restrictions 268.49, p. 805.