

NASA SSFL Soil Cleanup - Backfill Calculations

AOC Level Cleanup

Area	0' to 2' (yd ³)	2.1' and greater (yd ³)	the 2' above deeper excavations	Total
LOX	28,068	18,334	9,990	56,392
A2LF	18,084	119,182	17,722	154,988
ELV	32,428	40,886	13,786	87,100
APSTP	26,603	13,090	6,107	45,800
Alfa	45,233	23,835	13,536	82,603
Bravo	16,744	9,424	10,350	36,518
ABFF	1,968	2,818	4,294	9,080
SPA	17,691	6,442	2,576	26,709
B204	10,113	2,566	1,936	14,615
Skyline	6,804	364	598	7,765
HWSA	1,180	27	17	1,224
Coca	38,151	1,147	2,444	41,742
Delta	3,441	774	13,489	17,704
PLF	702	75	8,037	8,814
CDFF	8,368	264	10,162	18,794
R2PD	7,284	446	111	7,841
Totals for ERA	262,861	239,672	115,156	617,689
Percentage	42.6%	38.8%	18.6%	
Total for XRA ⁽¹⁾	252,311	-	-	252,311
Percentage	100.0%	0.0%	0.0%	
Total AOC Cleanup	515,171	239,672	115,156	870,000
Percentage	59.2%	27.5%	13.2%	
Backfill % Replacement ⁽²⁾	33%	100%	33%	
Backfill Yd³	170,007	239,672	38,001	447,681

⁽¹⁾ XRA assumptions: XRA extended footprints are based on PAHs, TPHs, and dioxins. Due to the nature of these COCs, a depth of 2' is assumed for the extended footprint

⁽²⁾ Backfill Assumptions: All excavations from 0' to 2' are replaced with 1/3 of excavated amount (i.e. topsoil). Any excavation greater than 2' (bgs) will be replaced at 100% of excavated amount (i.e. general fill). The first 2' of excavation greater than 2' will be replaced with 1/3 of excavated amount (i.e. topsoil).

NASA SSFL Soil Cleanup - Backfill Calculations

Modified LUT Cleanup

Area	0' to 2' (yd ³)	2.1' and greater (yd ³)	the 2' above deeper excavations	Total
A2LF	3,401	119,182	17,722	140,306
ABFF	2,975	1,767	1,660	6,402
Alfa	16,410	9,649	10,217	36,275
APSTP	6,200	9,321	7,561	23,082
B204	1,540	1,933	4,542	8,015
Bravo	3,809	8,810	8,206	20,825
CDFF	1,707	2,800	5,788	10,294
Coca	22,655	4,235	3,779	30,668
Delta	8,014	1,964	1,111	11,089
ELV	17,636	6,093	12,607	36,336
HWSA	191	-	-	191
LOX	4,362	18,157	11,055	33,573
PLF	3,126	1,381	520	5,028
R2PD	5,316	-	-	5,316
Skyline	6,175	254	203	6,631
SPA	1,451	2,010	6,886	10,347
Totals for ModLUT	104,966	187,555	91,857	384,377
Percentage	27.3%	48.8%	23.9%	
Backfill % Replacement	33%	100%	33%	
Backfill Yd³	34,639	187,555	30,313	252,506

NASA SSFL Soil Cleanup - Backfill Calculations

Suburban Residential Cleanup

Area	0' to 2' (yd ³)	2.1' and greater (yd ³)	the 2' above deeper excavations	Total
A2LF	4,160	119,313	17,972	141,445
ABFF	2,179	39	24	2,242
Alfa	7,575	9,772	3,756	21,103
APSTP	4,575	8,856	1,595	15,026
B204	666	122	55	843
Bravo	1,671	2,161	1,392	5,224
CDFF	3,979	144	231	4,354
Coca	8,436	5,185	2,961	16,582
Delta	894	1,239	707	2,840
ELV	2,502	2,026	1,828	6,356
HWSA	165	-	-	165
LOX	2,063	10,129	9,192	21,383
PLF	899	349	118	1,366
R2PD	4,283	194	114	4,590
Skyline	1,394	-	-	1,394
SPA	418	1,356	613	2,387
Totals for SubRes	45,858	160,885	40,558	247,301
Percentage	18.5%	65.1%	16.4%	
Backfill % Replacement	33%	100%	33%	
Backfill Yd³	15,133	160,885	13,384	189,402

NASA SSFL Soil Cleanup - Backfill Calculations
Recreational Cleanup

Area	0' to 2' (yd ³)	2.1' and greater (yd ³)	the 2' above deeper excavations	Total
ABFF	2,137	-	-	2,137
PLF	331	-	-	331
CDFF	2,468	-	-	2,468
APSTP	2,513	40	107	2,660
B204	535	33	33	600
SPA	463	130	87	679
Skyline	1,183	-	-	1,183
Alfa	4,618	963	1,484	7,065
Bravo	1,171	286	445	1,903
LOX	2,306	705	787	3,798
A2LF	1,992	119,244	17,981	139,217
ELV	1,950	205	311	2,467
Coca	5,033	1,658	1,001	7,692
Delta	837	-	-	837
R2PD	3,313	-	-	3,313
HWSA	142	-	-	142
Totals for Rec	30,990	123,264	22,236	176,491
Percentage	17.6%	69.8%	12.6%	
Backfill % Replacement	33%	100%	33%	
Backfill Yd³	10,227	123,264	7,338	140,829

Backfill Assumptions:

All excavations from 0' to 2' are replaced with 1/3 of excavated amount (i.e. topsoil)

Any excavation greater than 2' (bgs) will be replaced at 100% of excavated amount (i.e. general fill)

The first 2' of excavation greater than 2' will be replaced with 1/3 of excavated amount (i.e. topsoil)