

Attachment 3

Summary of Solid Waste Management Unit  
and Area of Concern Status Table

Unit No.	Description	Mapping	Soil-gas	Geophysics		Surface Sampling	Subsurface Investigation	Additional Investigation	Treatability Study	Remediation (Contaminants)	Remediation (UXO/Scrap metal)	Investigation Report(s)	Draft Recommendations	Closure Recommended		Closure Approved by Regulators
				EM	GPR									RRS1	TRRP	
B-1	Powder and ammo burn area (1954).	Feb-95	--	Feb-95	Feb-95	--	Feb-95 (SB1-3); June-95 (SB1RW); Aug-Sep-96 (SB4-6); Mar-Apr-00 (SB4-6RW)	Feb-95 (Groundwater sample, SB3)	--	--	--	Draft Jan-02 Final Aug 02	RRS1 Closure	X		November-02
B-2	Small arms ammunition burning area (1954)	May-95	Jun-95	Feb-95	Mar-95	--	Mar-95 (SB1-5); Jun-95 (SB5RW)	Mar-95 (SB3.5)	--	--	Sept 97 Sept 03	Draft Aug-01 Final June 02	Removal of metal and UXO from stockpiles, stockpile sampling			
B-3	Landfill area (garbage disposal and burning trash); filled in 1990-91.	May-95	Jun-95, Nov-Dec-95	Feb-95	Feb-95	--	Mar-95 (SB1-7); Dec 95-Feb-96 (VEWs, VMPs); Apr-00 (RW-VEW7-18)	Mar-95 (Groundwater sample, SB1)	Mar-96 installed SVE system. System has since been removed.	--	--	Draft Nov-01	Removal of contaminated soil			
B-4	Classified burn area (documents and trash).	Feb-95	Jun-Jul-95, Nov-Dec-95	Feb-95	Feb-95	--	Mar-95 (SB1-5); Apr-00 (SB6-17)	Mar-95 (Groundwater sample, SB5)	--	--	--	Draft Nov-01 Final June 02	Removal of waste in trench and confirmation sampling			
B-5	Possible fired small arms ammo brass area. Not located.	Mar-96		Mar-96	--	Mar-96 (SS1-3); Mar-00 (SS1-3RW)	--	--	--	--	--	Draft Jun-01 Final July 02	RRS1 Closure	X		October-02
B-6	Possible solid waste disposal area.	Mar-96	--	Mar-96		Mar-96 (SS1-3); Mar-00 (SS1-3RW)	--	--	--	--	--	Draft Nov-01 Final July 02	RRS1 Closure	X		October-02
B-7	Possible fired small arms ammunition brass disposal area	Aug-95	--	May-95	--	Mar-96 (SS1-3); Mar-00 (SS1-3RW)	--	--	--	--	Mar-97	Draft Jun-01 Final July 02	RRS1 Closure	X		October-02
B-8	Fired small arms ammo brass disposal area (piles of fire bricks, ammo shells)	Aug-95		Feb 95 Apr 03	--	Apr-00 (Sift1-3) Mar-03 (SS01-SS30)	Aug-96 (SB1-3); Mar-00 (SB1-3RW)	--	--	--	Aug 97 Sept 03	Draft Jul-01 Final May 02	Remediation of stockpiled and in-situ soils			
B-9	Miscellaneous solid waste (metal and weapons) disposal area.	Feb-96	--	Nov-99	Nov-99	--	Mar-00 (SB1-3)	--	--	--	--	Draft, then Final October 2002	Recommended RRS1 closure	X		Mar-03
B-10	Ammunition disposal area.	Jul-95	Jul-95; Aug-96	Mar-Apr-96	--	--	--	--	--	Aug-97	Aug-97	Draft Jan 03 Final May 03	Recommended RRS1 closure	X		
B-11	Miscellaneous solid waste disposal (ammo, scrap metal, const. debris).	Aug-95	Jul-95 (see AOC 38)	Apr-95	--	--	Feb-00 (SB1-5)	--	--	--	--	Draft Oct-01 Final Aug 02	Removal of waste in trench and confirmation sampling			
B-12	Landfill, WPA trash when igloos were being built	May-95	--	May-95	--	--	Aug-Sep-96 (SB1-4); Mar-00 (SB1-4RW)	--	--	--	--	Draft Oct-01 Final July 02	Removal of waste and confirmation sampling			
B-13	Trash dump area.	Mar-96	--	Mar-Apr-96	--	--	Aug-96 (SB1-4); May-97 (SB1-2); Mar-00 (SB1-4-RW)	--	--	--	--	Draft Oct-01 Final June 02	Excavation of waste and verification surface sampling.			
B-14	Possible fired brass area - not located.	--	--	--	--	--	--	--	--	--	--	Letter requesting that this site be delisted was sent to TNRCC.	--			
B-15/16	Landfill (target vehicles, weapons mounts)	Mar-95	Aug-96	Mar-95, Aug-99	Mar-95, Aug-99	Mar-00 (SB1-9)	Mar-00 (SB1-9)	--	--	--	--	Draft Aug-01 Final Nov 02	Removal of buried metal debris and confirmation sampling			
B-19	Solid waste disposal area (metals and weapons).	Feb-95	--	Feb-95	Feb-95	--	Feb-95 (SB1-3); Jun-95 (SB1-3RW); Aug-Sep-96 (SB4-6); Mar-00 (SB4-6RW)	Feb-95 (Groundwater sample, S3); Jun-95 (Groundwater samples SB1-	--	--	--	Draft Nov-01 Final June 02	RRS1 Closure	X		September-02
B-20	Former OB/OD area	Mar-94	--	Dec-94	--	Dec-94 (SS1-43); Sep-95 (SS44-60);	Dec-94 (SB1-10); Sep-95 (SB1-13); Mar-00 (SB1-8RW)	--	Underway	Jul-99; Aug-01 (PIMS)	Dec-95; Sep-95; Jan-May-97	Draft Aug-01 Final July 02	Remediation of stockpiled and in-situ soils			

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				EM	GPR									RRS1	TRRP	
B-21	Ammunition disposal areas	Mar-94	--	--	--	Dec-94	--	--	--	Jul-99	Jul-99	Combined with B-20	See B-20			
B-22	Burn area (artillery shells).	Feb-Mar-95	--	Feb-Mar-95	--	Mar-96 (SS1-5); Mar-00 (SS1-5-RW)	--	--	--	--	--	Draft Jul-01 Final Aug 02	RRS1 Closure	X		December-02
B-23	Disposal trenches (two green canisters)	Mar-95	Aug-96	Mar-95	--	--	Mar-00 (SB1-3)	--	--	--	--	Draft Oct-01 Final June 02	Removal of waste in trench and confirmation sampling			
B-23A	Disposal Trench (glass ampoules of liquid)	Mar-95	--	Mar-95	--	--	--	--	--	--	--	Draft, then Final July 2003	Removal of ampoules and excavation of trench			
B-24	Spent ammo/rockets area	Mar-95	--	Mar-95	Mar-95	Mar-00 (SB1-5)	Mar-00 (SB1-5)	--	Underway	--	Mar-Sept-97	Draft Aug-01 Final June 02	Remediation of stockpiled and in-situ soils			
B-25	Possible disposal trench	Mar-96	--	Mar-96	--	Mar-96 (SS1-3); Mar-00 (SS1-3RW)	Sep-96 (SB1-3); Mar-00 (SB1-3RW)	--	--	--	--	Draft Sep-01 Final July 02	Excavation			
B-26	Possible disposal trench	Mar-96	--	Mar-96	--	Mar-96 (SS1-3); Mar-00 (SS1-3RW)	Sep-96 (SB1-3); Mar-00 (SB1-3RW)	--	--	--	--	Draft Nov-01 Final Aug 02	Excavation of test pit			
B-27	Sanitary landfill, consisting of 5-6 trenches (6 ft deep, 3 ft wide).	Mar-96	--	Mar-96	--	Mar-96 (SS1-3); Mar-00 (SS1-3RW)	Aug-96(SB1-3); Mar-00 (SB1-3RW)	--	--	--	--	Draft Oct-01 Final Aug 02	Removal of waste and confirmation sampling			
B-28	Disposal trenches (molten metal, ammo, ammo parts)	Feb-95	Jun-95	Feb-95	Feb-95	Feb-95 (SB1-6)	Feb-95 (SB1-6)	Feb-97	Underway	--	Jun-97	Draft Aug-01 Final May 02	Remediation of stockpile soils			
B-29	Solid waste disposal area (in old quarry)	Mar-96	--	Mar-96	--	Mar-96 (SS1-4); Mar-00 (SS1-4RW)	Aug-96 (SB1-6); Mar-00(SB1-RW)	--	--	--	--	Draft Nov-01 Final Aug 02	Removal of waste on ground surface and limestone embankment walls, followed by verification sampling			
B-30	Solid waste disposal area	Mar-96	--	Mar-96	--	Mar-96 (SS1-3); Mar-00 (SS1-3RW)	Aug-96 (SB1-3); Mar-00 (SB1-3RW)	--	--	--	--	Draft Oct-01 Final Aug 02	Removal of waste and confirmation sampling			
B-31	Lead shot/sand pipe bedding	Mar-96	--	Mar-96	--	Mar-96 (SS1-3); Mar-00 (SB1-3)	Aug-96 (SB1-3); Mar-00 (SB1-3RW)	Jul-97	--	--	--	Draft Aug-01 Final Aug 02	RRS1 Closure	X		November-02
B-32	Lead shot/sand pipe bedding	Jul-95	Jul-95	Mar-96	--	Mar-96(SS1-3); Mar-00 (SS1-3RW)	Aug-96 (SB1-3); Mar-00 (SB1-3RW)	--	--	--	--	Draft Nov-01 Final Jan-03	RRS1 Closure	X		
B-33	Lead shot/sand pipe bedding	Mar-96	--	Mar-96	--	Mar-96 (SS1-3); Mar-00 (SS1-3RW)	May-97 (SB1-3); Mar-00 (SB1-3RW)	--	--	Jul-97	--	Draft Oct-01 Final Aug 02	Additional excavation			
B-34	Maintenance pit floor drain and discharge point	Jul-95	Jul-95	Mar-96	--	Mar-96 (SS1-3); Mar-00 (SS1-3RW)	Aug-96(SB1-3); Mar-00 (SB1-3RW)	--	--	--	--	Draft Jan-02 Final Aug-02 Draft Add. Jul-03 Final Add. Aug-03	Additional sampling to determine extent of contamination, followed by remediation/disposal of contaminated soil			
B-71	Livestock area. Inner cantonment, SW of Well 16.	Mar-95	--	--	--	--	--	--	--	--	--	--	--	(Not available)		
Bldg 40	--											Draft January 03 Final Sept 03	RRS1 Closure	X		

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				EM	GPR									RRS1	TRRP	
Bldg 43	Inactive makeshift ammo demolition facility	Jul-95	Jul-95	Mar-Apr-96	Mar-Apr-96	--	Feb-Mar-00 (SB1-6)	--	--	--	--	Draft, then Final December 2002 RFI Amended June 2003	(Surface excavation, confirmation sampling)			
DD	Dud ammunition disposal area		--	--	--	Mar-00 (SB1-3)	Mar-00 (SB1-3)	--	Underway	--	Feb-May-97	Draft Oct 01 Final June 02	Remediation of stockpiled and in-situ soils			
F-14	Hazardous waste storage area (<90-day)	--	--	--	--	Apr-94 (SS1-7)	Sep-92 (SB1-10)	--	--	Jun-94, Feb-95 Disposed of IDW under TNRCC guidance	--	Draft, then Final report submitted	Site closure approved.	X		Nov-95
I-1	Inactive incinerator (built in 1943), currently used for transformer storage	Mar-96	Aug-96	Mar-96	--	Apr-00 (SS103)	Mar-00 (SB1-3)	--	--	--	--	Draft January 2003 Final February 2003	(Additional work)			
O-1	Waste liquid/sludge oxidation pond (1975)	Feb-95	Jun-95; Aug-96	Feb-95	--	Nov-95 (SS1)	Mar-95 (SB1-4); Nov-99 (SB5-24); Apr-00 (SB25-29)	Mar-95 (3 surface samples)	--	--	--	Draft, then Final December 2001	Site closure approved.	X		April-02
Coal Bins	Coal bins (no longer in use)	--	--	--	--	--	--	--	--	--	--	Letter requesting that this site be delisted was sent to TNRCC.	--			
AOO 35	Area immediately around Well 16. Northeast area of inner cantonment.	Jun-Jul-95	Jun-Jul-95	Feb-95; Dec-99	Feb-95; Dec-99	Apr-00 (SS1-5)	--	--	--	--	--	Draft Jan-02 Final October 02	RRS1 Closure	X		Feb-03
AOO 36	Area between Well 16 and B-3. Possible buried mustard gas canisters location verified as not present by magnetometer survey (1997). Southeast of Well 16.	Mar-95	Jul-95	Mar-95	Mar-95	Jan-00 (SS1-10)	--	Feb-97	--	--	--	Draft Sep-01 Final June 02	RRS1 Closure	X		August-02
AOO 37	Livestock area. NW of Well 16 and N of Well D.	May-95	Dec-99	May-95	May-95	--	--	--	--	--	--	--	--			
AOO 38	Livestock area. Inner cantonment, SW of Well 16.	Mar-95	Jul,Nov-95	Mar-95	--	Jan-00 (SS1-60)	--	--	--	--	--	Draft Sep-01 Final May 02	Investigate anomaly			
AOO 39	None. Area west of Well 16 between North Outer Rd and cantonment fence.	Mar-95	Jul-95	Mar-95	--	Jan-00 (SS1-60)	--	--	--	--	--	Draft Sep-01 Final June 02	RRS1 Closure	X		September-02
AOO 40	None. Area east of Well 16 between North Outer Rd and cantonment fence.	Mar-95	Jul-95	Mar-95	--	Jan-00 (SS1-5)	--	--	--	--	--	Draft Sep-01 Final June 02	RRS1 Closure	X		August-02
AOO 41	Gate area east of well 16. North Pasture, north of gate 6.	May-95	Jun-Jul-95; Dec-99	May-95	--	--	--	--	--	--	--	--	--			
AOO 42	None. South of SWMUs B-28 and B-19, west of B-4.	May-95	Jun-Jul-95	May-95	--	Mar-01(SS1-9)	Mar-01(1-9)	--	--	--	--	Draft Sept 02 Final November 2002	--			
AOO 43	Shallow trench without mounds. Metal, UXO. Located 50 ft south of B-7.	Dec-99	--	Dec-99	--	Mar-01(SS1-3)	--	--	--	--	--	Draft July 02 Final October 02	RRS1 Closure	X		Feb-03
AOO 44	Fox holes and trenches. UXO includes Stokes mortars and 20-lb bombs. Located south of B-9 along west slope of hill.	--	--	--	--	--	--	--	--	--	--	--	--			
AOO 45	Flat area with spent and undamaged bullets. Located east of B-31, near bend in road.	--	--	--	--	--	--	--	--	--	--	--	--			

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				EM	GPR									RRS1	TRRP	
AO 46	Bermed area with stockpile of lead shot and sand. Located south of Engineering on east side of Thompkins Road.	--	--	--	--	--	--	--	--	--	--	--	--			
AO 47	Area of trenches and mounds (similar to B-15/16). South of B-15/16, in SW area of East Pasture.	Aug-99	Aug-96 (see B-15/16)	Aug-99	Aug-99	Jun-00 (SS1-3)	--	--	--	--	--	Draft Sep-01 Final June 02	RRS1 Closure	X		September-02
AO 48	Three N-S trending mounds and a construction debris pile. Located north of B-15/16.	--	Aug-96 (see B-15/16)	Jul-Aug-99	Jul-Aug-99	Jun-00 (SS1-3)	--	--	--	--	--	Draft Oct-01 Final June 02	Additional excavation			
AO 49	Trench (4 x 7 ft) without surficial debris. Located SW of deer stand 41 in central East Pasture.	--	--	--	--	--	--	--	--	--	--	--	--			
AO 50	Area with orange discolored material (most likely nickel penetrate) at ground surface. South of B-30 along gravel road.	--	--	--	--	--	--	--	--	--	--	Draft November 2002 Final December 2002	--			
AO 51	East pasture, east of active range, approximately 25 acres, area around B-9	--	--	--	--	--	--	--	--	--	Feb-97 (UXO clearance)	--	--			
AO 52	Area west of B-4 towards Salado Creek near trees, two trenches	--	--	--	--	--	--	--	--	--	--	--	--			
AO 53	Building foundation near B-27 at Central Road and road to "D" Tank, batteries at rear of slab	--	--	--	--	--	--	--	--	--	--	--	--			
AO 54	Area near gutting pit, east of Welding Shop Building, right side of road batteries were stored in the area	--	--	--	--	--	--	--	--	--	--	--	--			
AO 55	Landfill, south of Tenberg Drive, east of Salado Creek	--	--	--	--	--	--	--	--	--	--	--	--			
AO 56	Landfill, at intersection of Bernard Road and East Outer Road, surface depression on south side of intersection	Aug-99	--	Aug-99	Aug-99	Jan-00 (SS1-3)	--	--	--	--	--	Draft Sep-01	Investigate anomaly			
AO 57	East of Building 98 and KOA Area, cleaning/maintenance activities performed at temporary structures	--	Jan-Feb-01	--	--	--	--	--	--	--	--	--	--			
AO 58	Suspected disposal trench within Inner Cantonment	Aug-99	--	Aug-99	Aug-99	Jan-00 (SS1-3)	--	--	--	--	--	Draft Jun-01 Final Nov 02	Investigate anomaly			
AO 59	Trench-type anomaly located west Test Pad in the East Pasture	--	--	--	--	--	--	--	--	--	--	--	--			
AO 60	Trench located west of tunnel and entrance roadway in the East Pasture.	--	--	--	--	--	--	--	--	--	--	--	--			
AO 61	Suspected landfill	Aug-99	--	Aug-99	Aug-99	Jan-00 (SS1-3)	--	--	--	--	--	Draft Sep-01 Final October 02	RRS1 Closure	X		Feb-03
AO 62	Located west of monitoring well MW-2 and east of Salado Creek.	--	--	--	--	--	--	--	--	--	--	--	--			

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				EM	GPR									RRS1	TRRP	
AOC 63	Area consisting of 3 barrels containing rocks, south of deer stand 41 in the East Pasture.	--	--	--	--	--	--	--	--	--	--	--	--			
AOC 64	Area east of SWMU B-4; flares observed in the area	--	--	--	--	--	--	--	--	--	--	--	--			
AOC 65	A concrete pit area that housed a metal vat that contained TCE and PCE.	Mar-00	Jan-Feb-01	--	--	--	Mar-00 (SB1); Mar-Apr-01 (SB2-13, MW1-4)	--	--	--	--	Draft, then Final December 2002	(further characterization of COC plumes)			
AOC 66	Area north of Well 16 in the outer cantonment.	Dec-99	Dec-99	--	--	--	--	--	--	--	--	--	--			
AOC 67	Concrete pad near Building 90 housed a vat containing cleaning solvents.	Apr-01	Jan-Feb-01	--	--	--	Apr-01 (SB1-3)	--	--	--	--	Draft Dec-01 Final Dec 02	--			
AOC 68	Area includes metal slag/debris storage area from Wheelabrator operations next to Building 90-2.	--	--	--	--	--	--	--	--	--	--	--	--			
AOC 69	Located on west side of CSSA.	--	--	--	--	--	--	--	--	--	--	--	--	(Not available)		
AOC 70	Building used to mix pesticides. Near Building 1.	--	--	--	--	--	--	--	--	--	--	--	--	(Not available)		
AOC 72	Area containing concrete, possible asbestos. Located east of Building 94, in SW CSSA.	--	--	--	--	--	--	--	--	--	--	--	--	(Not available)		
AOC 73	Ranch landfill with overgrown trenches. Near Well 11, in northwest corner of CSSA.	--	--	--	--	--	--	--	--	--	Trash removed by CSSA personnel; barbed wire, rusted razor blades, broken glass.	--	--	(Not available)		