

Restoration | Appendix S: Sea Disposal of Military Munitions

Under Section 314 of the Fiscal Year (FY) 2007 National Defense Authorization Act, the Department of Defense (DoD) is required to conduct a historical review of available records to determine the number, size, and probable locations of sites where the military disposed of military munitions in U.S. coastal waters. The Department will include the final Section 314 report in the FY2009 Defense Environmental Programs Annual Report to Congress.

In the interim, DoD will report, annually, any new information identified during the review.

This interim report identifies the Department's progress on the historical review since FY2006. Specifically, this report updates the general locations, types, and quantities of chemical munitions or chemical agents (CA), collectively referred to as chemical warfare material (CWM),

disposed of in U.S. coastal waters. It also identifies sites where conventional military munitions were disposed of in these waters.

DoD's research into sea disposal of CWM has identified approximately 30,000 tons of disposed CA at 21 sites in U.S. coastal waters. The term CA, as used in this appendix, is limited to those substances on the Chemical Weapons Convention (CWC) schedule of chemicals.

Figure S-1 provides a summary of the net chemical agent weight (NCAW) of CWM according to the CA and disposal location. NCAW totals were determined using assumptions regarding the container sizes and densities of the disposed materials.

Figure S-2 displays the locations of each disposal site in U.S. coastal waters.

Figures S-3 through S-32 provide information on each disposal site. For CWM disposal sites, these figures include CA type, the type of munition or container, the quantity that was sea disposed, and the NCAW. For conventional military munitions, these figures include the type of munition or container; the fill type (e.g., explosive, smoke); the quantity; and the location. Also reported are disposals that involved empty munition bodies (e.g., bombs, projectiles) and other DoD materials of interest (e.g., low-level radioactive material, drums of chemicals, contaminated soil) that were co-disposed. DoD's ongoing research efforts continue to make significant progress toward developing a comprehensive list of all sites. Calculations and totals have been rounded and may not match exactly.

Figure S-1 Summary of Sea Disposal of Military Munitions—Chemical

Total Net Chemical Agent Weight by Location (tons)							
Chemical Agent	Atlantic Coast (11 sites)	Caribbean Coast (1 site)	Pacific Coast (1 site)	Gulf Coast (2 sites)	Alaska Coast (1 site)	Hawaii Coast (3 sites)	Total NCAW (tons)
Lewisite	8,286		1,344		843	181	10,654
Mustard	5,177	<1	9,040	8	55	2,171	16,451
Sarin	239						239
VX	124						124
Arsenic Trichloride	505						505
Arsenic	16						16
Phosgene	37			1			38
Cyanogen Chloride	1	7				204	212
Cyanide	8					2	10
Tabun	6	15					21
Sulfur Monochloride	16						16
Unknown Agent	1,182			184			1,366
Total	15,597	22	10,384	193	898	2,558	29,652

Figure S-2 Approximate Locations of Munitions Disposals in U.S. Waters

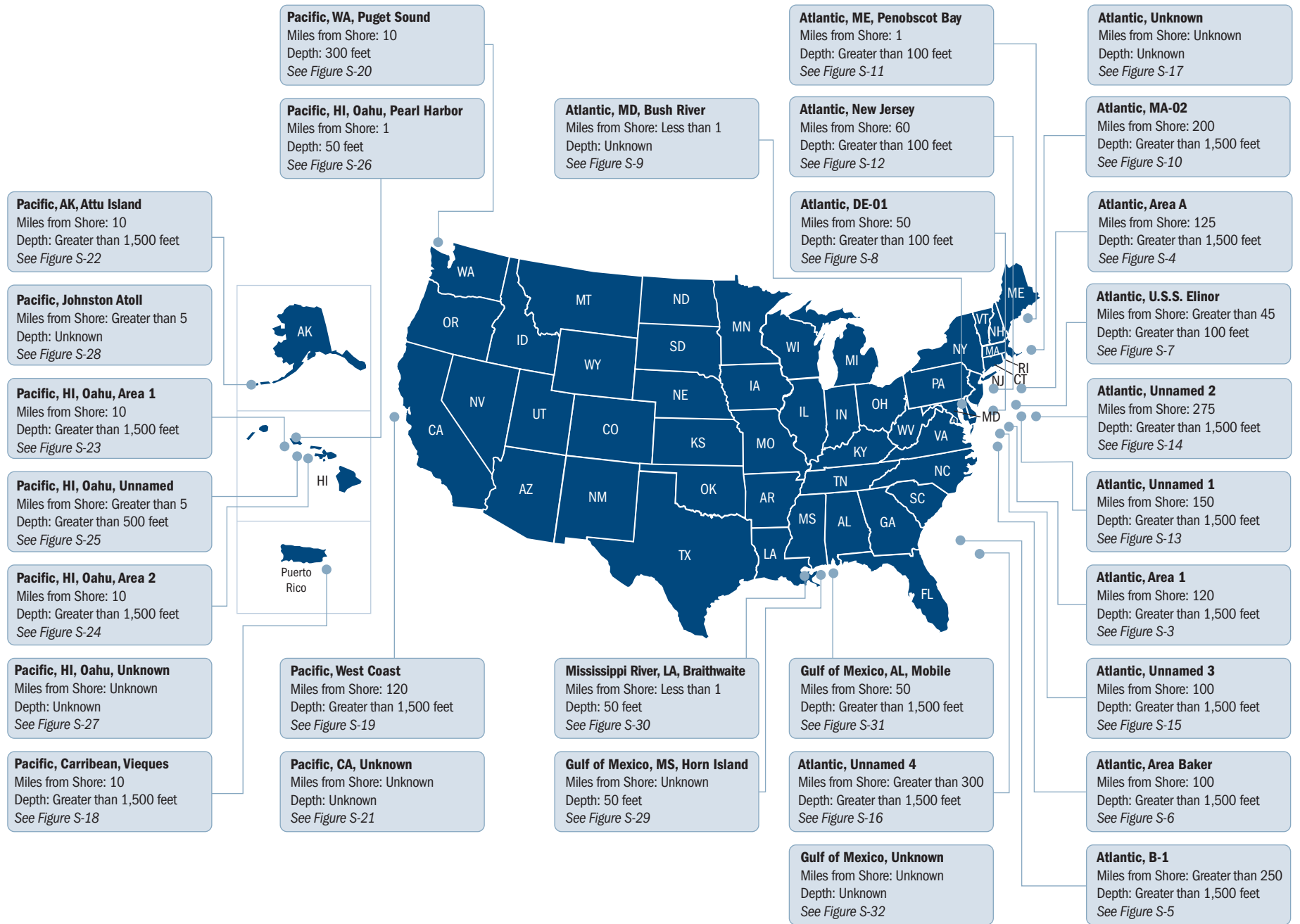


Figure S-3 U.S. Waters—Atlantic, Area 1 Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Lewisite	Ton Container	Each	1	1,900	1	
Lewisite Total					1	
Mustard	155 mm Projectile	Each	341	12	2	
Mustard	105 mm Projectile	Each	378	3.2	1	
Mustard	4.2 inch Mortar Shell	Each	56,144	6.5	182	
Mustard Total					185	
Arsenic Trichloride	55 Gallon Drum	Each	1,154	875	505	
Arsenic Trichloride Total					505	
Cyanide	55 Gallon Drum	Each	20	283	3	
Cyanide Total					3	
Other Materials Disposed						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Low-Level Radiological Waste	Unknown	Pounds	421,757	N/A	N/A	
White Phosphorus (WP)	M74 500 lb Cluster Bomb	Each	278	N/A	N/A	
WP	M74 110 lb Cluster Bomb	Each	646	N/A	N/A	
WP	57 mm Cartridge	Each	2,376	N/A	N/A	
WP	Igniter	Each	2,876	N/A	N/A	
Adamsite (DM)	Smoke candle	Tons	375	N/A	N/A	
Smoke	M1 155 mm Smoke Canister	Each	252	N/A	N/A	
Smoke	M2 155 mm Smoke Canister	Each	84	N/A	N/A	
Smoke	M3 155 mm Smoke Canister	Each	156	N/A	N/A	
Smoke	M4 155 mm Smoke Canister	Each	52	N/A	N/A	
Smoke (HC)	105 mm Smoke Canister	Each	55,201	N/A	N/A	
Smoke	76 mm Smoke Canister	Each	84	N/A	N/A	
Smoke	76 mm Smoke Canister (Unfixed)	Each	22,110	N/A	N/A	
Smoke	60 mm Smoke Canister (Unfixed)	Each	378	N/A	N/A	
Smoke	M84 Smoke Shell (Unfixed)	Each	96	N/A	N/A	
Smoke (HC)	2.36 inch T27E1 Rocket Head	Each	1,273	N/A	N/A	
Smoke (HC)	T6 Rifle Grenade Head	Each	155	N/A	N/A	
Incendiary	2.36 inch T31 Rocket Head	Each	8	N/A	N/A	

Figure S-4 U.S. Waters—Atlantic, Area A Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Mustard	Ton Container	Each	4,577	1,800	4,119	
Mustard Total					4,119	
Sarin (GB)	M55 Rockets in Concrete Vaults	Each	29,280	11	157	
Sarin (GB)	Ton Container	Each	19	1,600	15	
Sarin Total					172	
VX	M55 Rockets in Concrete Vaults	Each	21,900	10	110	
VX	Ton Container	Each	19	1,430	14	
VX Total					124	
Arsenic	50 and 30 Gallon Drum or Canister	Each	60	543	16	
Arsenic Total					16	
Cyanide	50 and 30 Gallon Drum or Canister	Each	60	176	5	
Cyanide Total					5	
Unknown Agent	Ton Container	Each	28	1,900	27	
Unknown Agent Total					27	
Other Materials Disposed						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Methyl Bromide	Cylinder	Each	4	N/A	N/A	
Explosives	Unknown	Tons	2,444	N/A	N/A	
Water-filled	Ton Container	Each	3,500	N/A	N/A	

Figure S-5 U.S. Waters—Atlantic, Area B-1 Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Lewisite	Bomb	Tons	462	1,100	254	
Lewisite	M70 115 lb Bomb	Tons	2,854	1,100	1,570	
Lewisite	M70 115 lb Bomb	Each	928	83	38	
Lewisite	Ton Container	Cars	6	20,000	60	
Lewisite Total					1,922	
Mustard	155 mm Projectile	Each	968	12	6	
Mustard	105 mm Projectile	Each	1,048	3.2	2	
Mustard	75 mm Projectile	Each	86	1.4	<1	
Mustard Total					8	

Other Materials Disposed						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
High Explosive (HE)	1,000 kg Bomb	Each	25	N/A	N/A	
HE	1,000 lb Bomb	Each	7	N/A	N/A	
HE	500 kg Bomb	Each	18	N/A	N/A	
HE	250 kg Cluster Bomb	Each	24	N/A	N/A	
HE	100 kg Bomb	Each	6	N/A	N/A	
HE	100 lb Bomb	Each	1	N/A	N/A	
HE	81 mm Detonator	Each	176	N/A	N/A	
HE	81 mm Fuze	Each	176	N/A	N/A	
WP	81 mm Projectile	Each	176	N/A	N/A	

Figure S-6 U.S. Waters—Atlantic, Area Baker Detail of CWC Schedule Disposals and Other Materials Co-Disposed

CWC Schedule Disposals						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Mustard	4.2 inch Mortar Shell	Each	12,160	6.5	40	
Mustard Total					40	

Figure S-7 U.S. Waters—Atlantic, U.S.S. Elinor Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Unknown Agent	Miscellaneous	Tons	2,460	400	492	
Unknown Agent Total						492

Figure S-8 U.S. Waters—Atlantic, DE-01 Detail of CWC Schedule Disposals and Other Materials Disposed

Other Materials Disposed						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Smoke	Smoke Pot	N/A	N/A	N/A	N/A	

Figure S-9 U.S. Waters—Atlantic, Maryland, Bush River Other Materials Disposed

Other Materials Disposed						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Empty	25 lb Drop Bomb (Contained WP)	Each	102	0.0	N/A	
Empty	25 lb Drop Bomb (Contained CN in CCL4)	Each	88	0.0	N/A	

Figure S-10 U.S. Waters—Atlantic, Area MA-02 Detail of CWC Schedule Disposals and Other Materials Disposed

Other Materials Disposed						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Smoke (FM)	Drum	N/A	N/A	N/A	N/A	

Figure S-11 U.S. Waters—Atlantic, Maine, Penobscot Bay Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Mustard	55 Gallon Drum	Each	4	555	1	
Mustard Total						1

Figure S-12 U.S. Waters—Atlantic, New Jersey Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Mustard	M47A1 100 lb Bomb	Each	3	75	<1	
Mustard Total						<1

Figure S-13 U.S. Waters—Atlantic, Unnamed 1 Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Lewsite	Ton Container	Each	2	1,900	2	
Lewsite	150 lb Cylinder	Each	1	75	<1	
Lewsite Total					2	
Mustard	Ton Container	Each	74	1,800	67	
Mustard	75 mm Projectile	Each	1,700	1.4	1	
Mustard Total					68	
Cyanogen Chloride (CK)	M78 500 lb Bomb	Each	10	176	1	
Cyanogen Chloride Total					1	

Other Materials Disposed						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Radiological Waste	55 Gallon Drum	Each	800	N/A	N/A	
Radiological Waste	Unknown	N/A	N/A	N/A	N/A	
Riot Control (CNB)	Ton Container	Each	456	N/A	N/A	
Smoke (FS)	Smoke Mixture	N/A	N/A	N/A	N/A	

Figure S-14 U.S. Waters—Atlantic, Unnamed 2 Detail of CWC Schedule Disposals and Other Materials Co-Disposed

CWC Schedule Disposals						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Lewsite	Ton Container	Each	48	1,900	46	
Lewsite Total					46	

Figure S-15 U.S. Waters—Atlantic, Unnamed 3 Detail of CWC Schedule Disposals and Other Materials Co-Disposed

CWC Schedule Disposals						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Mustard	4.2 inch Mortar Shell	Each	19,728	6.5	64	
Mustard Total					64	

Figure S-16 U.S. Waters—Atlantic, Unnamed 4 Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Lewsite	Container	Ton Container	3,659	1,900	3,476	
Lewsite Total					3,476	
Mustard	75 mm and 155 mm Projectile	Cars	62	20,000	620	
Mustard Total					620	
Sarin (GB)	M121 155 mm Projectile	Each	3	6	<1	
Sarin (GB)	M55 Rocket	Each	12,508	11	67	
Sarin Total					67	
VX	M23 Land Mine	Each	1	11	<1	
VX Total					<1	
Other Materials Disposed						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Incendiary	M14 500 lb Cluster Bomb	Each	60	N/A	N/A	
Unknown	Experimental Munitions	N/A	N/A	N/A	N/A	

Figure S-17 U.S. Waters—Atlantic, Area Unknown Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Lewisite	55 Gallon Drum	Each	364	780	142	
Lewisite	M70 115 lb Bomb	Each	30,432	83	1,263	
Lewisite	Ton Container	Each	1,509	1,900	1,434	
Lewisite Total					2,839	
Mustard	1,000 lb Bomb	Each	6	420	1	
Mustard	500 lb Bomb	Each	16	220	2	
Mustard	German 1,000 lb Bomb	Each	25	420	5	
Mustard	German 500 lb Bomb	Each	24	220	3	
Mustard	Bomb, Unspecified	Each	107	75	4	
Mustard	Unspecified Munitions	N/A	N/A	N/A	N/A	
Mustard (HN)	Ton Container	Each	63	1,800	57	
Mustard Total					72	
Phosgene	1,000 lb Bomb	Each	6	417	1	
Phosgene	500 lb Bomb	Each	15	205	2	
Phosgene	Bomb, Unspecified	Each	55	205	6	
Phosgene	M78 500 lb Bomb	Each	25	205	3	
Phosgene	M79 1,000 lb Bomb	Each	25	417	5	
Phosgene	Cylinder	Tons	20	2,000	20	
Phosgene Total					37	
Sulfur Monochloride	Drum	Each	45	704	16	
Sulfur Monochloride					16	
Tabun (GA)	1,000 lb Bomb	Each	6	420	1	
Tabun (GA)	German 1,000 lb Bomb	Each	24	420	5	
Tabun Total					6	
Unknown Agent	100 lb Bomb	N/A	N/A	N/A	N/A	
Unknown Agent	105 mm Projectile	N/A	N/A	N/A	N/A	
Unknown Agent	Chemical Weapons/Agent	N/A	N/A	N/A	N/A	
Unknown Agent	Stokes and Livens Ammunition	Tons	2,650	500	663	
Unknown Agent Total					663	
Other Materials Disposed						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Explosives	Non-Toxic Gas and Smoke-Filled Shells, Bursting, Fuzes, Charges, etc.	Tons	450	N/A	N/A	
Stannic Chloride (KJ)	Hand Grenade	N/A	N/A	N/A	N/A	
Decontaminating Agent Non-Corrosive	Unknown	Pounds	70,180	N/A	N/A	
Water-Filled	Ton Container	Container	2	N/A	N/A	

Figure S-18 U.S. Waters—Puerto Rico, Vieques Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Mustard	4.2 inch Mortar Shell	Each	68	6.5	<1	
Mustard Total						<1
Cyanogen Chloride (CK)	ANM79 1,000 lb Bomb	Each	8	351	1	
Cyanogen Chloride (CK)	M70 115 lb Bomb	Each	124	52	3	
Cyanogen Chloride (CK)	M78 500 lb Bomb	Each	29	176	3	
Cyanogen Chloride Total						7
Tabun (GA)	4.2 inch Mortar Shell	Each	1,842	4	4	
Tabun (GA)	German 250 kg Bomb	Each	110	206	11	
Tabun Total						15
Other Materials Disposed						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Smoke (FS)	4.2 inch Mortar Shell	Each	6	N/A	N/A	
Empty	4.2 inch Mortar Shell	Each	467	N/A	N/A	
Empty	M47A2 100 lb Bomb	Each	50	N/A	N/A	
Empty	M70 115 lb Bomb	Each	238	N/A	N/A	
Empty	T3 126 lb Bomb	Each	40	N/A	N/A	
Empty	500 lb Chemical Drum	Each	12	N/A	N/A	

Figure S-19 U.S. Waters—Pacific, West Coast Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals						
Item or Fill	Type of Munition or Container	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Lewisite	Ton Container	Each	1,415	1,900	1,344	
Lewisite Total					1,344	
Mustard	M70 115 lb Bomb	Each	301,000	60	9,030	
Mustard	M47 115 lb Bomb	Each	6	75	<1	
Mustard (HN)	Ton Container	Each	11	1,800	10	
Mustard Total					9,040	

Other Materials Disposed						
Item or Fill	Type of Munition or Container	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Other	55 Gallon Drum	Each	4	N/A	N/A	
Other	Contaminated Soil with Fragments	N/A	N/A	N/A	N/A	

Figure S-20 U.S. Waters—Pacific, WA Puget Sound Detail of CWC Schedule Disposals and Other Materials Disposed

Other Materials Disposed						
Item or Fill	Type of Munition or Container	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Riot Control (CN)	Grenades, Rifle, CN, M1	Each	428	N/A	N/A	

Figure S-21 U.S. Waters—Pacific, CA Unknown Detail of CWC Schedule Disposals and Other Materials Disposed

Other Materials Disposed						
Item or Fill	Type of Munition or Container	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Smoke (HC)	4 inch 50 MK 15-1 Projectile	Each	71	N/A	N/A	
CAIS	Set, Gas Identification, Instructional (Navy) HN, M1	Each	5	N/A	N/A	

Figure S-22 U.S. Waters—Pacific, AK, Attu Island, Chicago Harbor Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Lewisite	Ton Container	Each	887	1,900	843
Lewisite Total					843
Mustard	Ton Container	Each	61	1,800	55
Mustard Total					55

Figure S-23 U.S. Waters—Pacific, HI, Oahu Area 1 Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Lewisite	Ton Container	Each	190	1,900	181
Lewisite Total					181
Mustard	M70 115 lb Bomb	Each	14,956	60	449
Mustard	M110 155 mm Projectile	Each	1,949	12	11
Mustard	MK2 155 mm Projectile	Each	1,747	11	10
Mustard	MK2A1 155 mm Projectile	Each	595	11	3
Mustard	M60 105 mm Projectile	Each	10,773	3.2	17
Mustard	M64 75 mm Projectile	Each	2,390	1	1
Mustard	4.2 inch Mortar Shell	Each	30,917	6.5	100
Mustard	Ton Container	Each	1,038	1,800	934
Mustard Total					1,525
Cyanogen Chloride (CK)	M79 1,000 lb Bomb	Each	1,100	351	193
Cyanogen Chloride (CK)	M78 500 lb Bomb	Each	125	176	11
Cyanogen Chloride Total					204
Cyanide (AC)	M79 1,000 lb Bomb	Each	20	200	2
Cyanide Total					2

Figure S-24 U.S. Waters—Pacific, HI, Oahu Area 2 Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	M104 155 mm Projectile	Each	868	12	5
Mustard	M60 105 mm Projectile	Each	14,119	3.2	22
Mustard	MK2 75mm Shell	Each	1,213	1.4	1
Mustard	M64 75mm Projectile	Each	2,151	1	1
Mustard Total					29

Figure S-25 U.S. Waters—Pacific, HI, Oahu Unnamed Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Mustard	M47A2 100 lb Bomb	Each	16,000	75	598	
Mustard	Stokes Mortar	Each	12	7.5	<1	
Mustard Total					598	

Figure S-26 U.S. Waters—Pacific, HI, Pearl Harbor Unnamed Detail of CWC Schedule Disposals and Other Materials Disposed

Other Materials Disposed						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Riot Control (CN)	M6 CN-DM Grenade	Each	125	N/A	N/A	

Figure S-27 U.S. Waters—Pacific, HI, Oahu Unknown Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Mustard	Mk42 100 lb Bomb	Each	6	41	<1	
Mustard	M47A2 100 lb Bomb	Each	36	75	1	
Mustard	MK2 155 mm Projectile	Each	237	11	1	
Mustard	MK2 75 mm Projectile	Each	23,388	1.4	16	
Mustard Total					19	

Other Materials Disposed						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Incendiary	Bomb, Unspecified	N/A	N/A	N/A	N/A	
Riot Control (CN)	MK V Grenade	Each	119	N/A	N/A	
Riot Control (NC)	MK2 75 mm Projectile	Each	2	N/A	N/A	
Smoke	MK2 Smoke Float	Each	1	N/A	N/A	
Smoke	MK3 and Mods Smoke Float	Each	41	N/A	N/A	
Smoke	MK3 Smoke Pot	Each	11	N/A	N/A	
Smoke (FM)	MK2 155 mm Projectile	Each	35	N/A	N/A	
Smoke (FM)	MK2 75 mm Projectile	Each	96	N/A	N/A	
Smoke (FS)	4.5 inch MK7 Rocket Body	Each	12	N/A	N/A	
Smoke (HC)	M1 Smoke Pot	Each	46	N/A	N/A	
WP	75 mm Projectile	Lot	1	N/A	N/A	

Figure S-28 U.S. Waters—Pacific, Johnston Atoll Detail of CWC Schedule Disposals and Other Materials Disposed

Other Materials Disposed						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Empty	Debris from Decontaminated M55 Rocket	Each	19	N/A	N/A	

Figure S-29 U.S. Waters—Gulf of Mexico, Horn Island Detail of CWC Schedule Disposals and Other Materials Disposed

Other Materials Disposed						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Empty	500 kg Bomb Debris	Each	5	N/A	N/A	

Figure S-30 U.S. Waters—Gulf of Mexico, LA, Braithwaite Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Mustard	100 lb Bomb	Each	20	75	1	
Mustard Total					1	
Unknown Agent	Bomb	Each	2	N/A	N/A	
Unknown Agent					N/A	

Figure S-31 U.S. Waters—Gulf of Mexico, AL, Mobile Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Mustard	German 1,000 kg Bomb	Each	30	420	6	
Mustard	German 500 kg Bomb	Each	3	220	<1	
Mustard Total					7	

Figure S-32 U.S. Waters—Gulf of Mexico, Unknown Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Mustard	T3 126 lb Bomb	Each	2	60	<1	
Mustard Total						<1
Phosgene (CG)	250 kg Bomb	Each	2	240	<1	
Phosgene (CG)	500 kg Bomb	Each	1	475	<1	
Phosgene (CG)	M78 500 lb Bomb	Each	1	205	<1	
Phosgene (CG)	M78 500 lb Bomb	Each	1	417	<1	
Phosgene Total						1
Unknown Agent	Munitions	Short tons	922	400	184	
Unknown Agent Total						184
Other Materials Disposed						
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)	
Riot Control (CNS)	4.2 inch Mortar Shell	Barge	1	N/A	N/A	
Riot Control (CN) Total						N/A