



SECRETARY OF THE ARMY
WASHINGTON DC 20310

20 SEP 2007

MEMORANDUM THRU THE DEPUTY UNDER SECRETARY OF DEFENSE FOR
INSTALLATIONS AND ENVIRONMENT

FOR THE UNDER SECRETARY OF DEFENSE FOR ACQUISITION, TECHNOLOGY
AND LOGISTICS

SUBJECT: Designation of Responsibility for Recovery and Destruction of Buried
Chemical Warfare Material

1. The enclosed Department of Defense (DoD) Recovered Chemical Warfare Material Program Implementation Plan responds to the Under Secretary of Defense for Acquisition, Technology and Logistics' tasking for development of a plan for the recovery and destruction of buried chemical warfare material at active installations and formerly used defense sites subject to the Defense Environmental Restoration Program.
2. I believe the consolidation of responsibilities for this Program, under the Army, will provide for consistency in approach, avoid duplicating programs, and aid in efficient use of limited resources. While the enclosed plan addresses preliminary implementation procedures, additional coordination will be required within DoD and among the Services to determine precise resource requirements and finalize roles and responsibilities.
3. My point of contact is Mr. Tad Davis, Deputy Assistant Secretary of the Army for Environment, Safety and Occupational Health. Mr. Davis can be reached at (703) 697-2014.

Enclosure



Pete Geren

**Recovered Chemical Warfare Material
(RCWM) Program Implementation Plan**

**(Recovery and Destruction of
Buried Chemical Warfare Material)**

July 2007

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**Recovered Chemical Warfare Material Program
Implementation Plan
(Recovery and Destruction of Buried Chemical Warfare Material)**

Executive Summary

1. On May 3, 2005, the Under Secretary of Defense for Acquisition, Technology and Logistics (USD(ATL)) tasked the Secretary of the Army (SA) with developing an implementation plan for the recovery and destruction of buried chemical warfare material (CWM)¹ at active installations and formerly used defense sites (FUDS) subject to the Defense Environmental Restoration Program (DERP) (Appendix A). Per USD(ATL), the Secretary of Defense will consider this plan and other information when determining whether to designate the SA as the Executive Agent (EA) for the recovery and destruction of buried CWM in the United States.²
2. Although USD's tasking was specific to the recovery and destruction of buried CWM, the Army understood that the intent was to address all situations in which current assets were used to address CWM that are recovered, regardless of the circumstances of recovery. As such, the Army expanded the plan's scope to provide a comprehensive approach for addressing recovered CWM (RCWM)³ including CWM that are unexploded ordnance (UXO)⁴, and other materials of interest, including munitions that have an unknown liquid fill and chemical agent identification sets (CAIS). The Integrated Product Team (IPT) and Overarching Integrated Product Team (OIPT) that developed this plan believe this expansion necessary to avoid program duplication and aid in efficient use of limited resources, specifically the crews that assess any munitions recovered and the technology used for destruction of any RCWM.

¹ **Chemical Warfare Material (CWM)**. Items generally configured as a munition containing a chemical compound that is intended to kill, seriously injure, or incapacitate a person through its physiological effects. CWM includes V- and G-series nerve agents or H-series (mustard) and L-series (lewisite) blister agents in other-than-munition configurations; and certain industrial chemicals (e.g., hydrogen cyanide (AC), cyanogen chloride (CK), or carbonyl dichloride (called phosgene or CG)) configured as a military munition. Due to their hazards, prevalence, and military-unique application, CAIS are also managed as CWM. CWM does not include: riot control devices; chemical defoliants and herbicides; industrial chemicals (e.g., AC, CK, or CG) not configured as a munition; smoke and other obscuration producing items; flame and incendiary producing items; or soil, water, debris or other media contaminated with low concentrations of chemical agents where no CA hazards exist.

² Should a response outside the United States be required, the CWM Program Management Office (PMO) will coordinate the response.

³ **Recovered Chemical Warfare Material (RCWM)**. CWM used for its intended purpose or previously disposed of as waste, which has been discovered during a CWM response or by chance (e.g., accidental discovery by a member of the public), that DoD has either secured in place or placed under DoD control, normally in a DDESB-approved storage location or interim holding facility, pending final disposition.

⁴ **Unexploded Ordnance (UXO)**. Military munitions that: (a) have been primed, fuzed, armed, or otherwise prepared for action; (b) have been fired, dropped, launched, projected, or placed in such a manner as to constitute a hazard to operations, installations, personnel, or material; and (c) remain unexploded whether by malfunction, design, or any other cause. (10 U.S.C. 101(e)(5))

3. The Deputy Assistant Secretary of the Army for Environment, Safety and Occupational Health (DASA(ESOH)) formed the Buried CWM IPT and OIPT to develop the requested plan in response to the USD(ATL) tasking.

4. The IPT determined that:

a. The assignment of EA responsibility to the Army will provide Department of Defense (DoD) with visibility of total requirements for addressing RCWM and consistency in its approach.

b. The scope of the EA's responsibilities and the RCWM Program should be broadened from the specifications in the tasker to make the EA responsible for the support of all circumstances that could involve RCWM. This includes addressing the discovery and assessment of munitions with unknown liquid fills; UXO determined to be chemical-filled munitions; CWM commingled with conventional munitions; and, providing an approach for addressing CWM on operational ranges and other areas that are outside the DERP.

c. Overall, the RCWM Program should be managed as part of DoD's Installations and Environment (I&E) program, not as an acquisition program. Because this program will address CWM recovered under a variety of situations (e.g., during munitions response⁵ on active, Base Realignment and Closure (BRAC) and FUDS properties, during range clearance activities, and during explosives and munitions emergencies) multiple funding sources may be involved.

d. Planning for and management of CWM responses⁶ should remain integrated with the Services I&E Programs, not managed as a separate program. This will allow the Services to conduct an integrated approach while presenting a single face to the regulatory community and public regardless of the reason for the responses (e.g., hazardous waste, conventional munitions).

e. RCWM should be handled as non-surety material. However, procedures for access, storage and security must provide appropriate safeguards.

f. The roles and responsibilities for Chemical Weapons Convention compliance are not expected to change should the Army be made EA for the RCWM Program.

g. Project Manager for Non-Stockpile Chemical Material (PM NSCM)'s response and operations-related equipment that is approved for assessment of recovered munitions and the destruction of RCWM (hereinafter referred to as assessment and

⁵ **Munitions Response.** Response actions, including investigation, removal actions and remedial actions to address the explosives safety, human health, or environmental risks presented by UXO, DMM, or MC, or to support a determination that no removal or remedial action is required.

⁶ **Chemical Warfare Material (CWM) Response.** Munitions responses and other responses to address the chemical safety; explosives safety, when applicable; human health; or environmental risks presented by CA-filled munitions and CA in other than munitions configurations. (See Munitions Response.)

destruction) and the associated personnel should transition from the PM NSCM-managed acquisition-related program to an Army operational activity.

h. Any estimate for the RCWM Program's total estimated cost should include specific funds to support:

(1) PM NSCM's sustainment of operational crews, staff, and equipment.

(2) Any research, development, test and evaluation (RDT&E) required to support the RCWM Program, to include evaluation and prove out of off-the-shelf technology.

(3) Archival research⁷ necessary to ensure:

(a) The inventory of CWM sites and other locations at which CWM may be present is complete and auditable.

(b) Comprehensive information about the production, distribution, storage, use and disposal of chemical agents is assembled and retained.

(4) The U.S. Army Forces Command (FORSCOM) 20th Support Command (Chemical, Biological, Radiological, Nuclear and High Yield Explosives) (CBRNE)'s two chemical battalions (Technical Escort (TE)) (formerly U.S. Army Material Command's Technical Escort Unit) support of explosive and munitions emergency responses.

i. Funding and management of CWM responses should be consolidated to the extent practical, however:

(1) Separate funding—a separate appropriation—should be established to address the below activities. These activities are collectively referred to as the firehouse functions. (See 4.i.(3) below.)

(a) Assessment and destruction of RCWM, at no cost to the supported activity.

(b) Sustainment of the crews and equipment required for assessment and destruction of RCWM.

(c) Required RDT&E for equipment improvements to meet new requirements and to evaluate off-the-shelf technology to support RCWM assessment and destruction.

(d) Explosives or munitions emergencies that involve munitions with an unknown liquid fill or CWM.

(e) Archival research.

⁷ This addresses DoD's need to review thousands of documents that are held in classified repositories and in national archives for information on CWM-related activities, not including sea-disposal of CWM.

(2) Service I&E Programs should:

(a) Continue to prioritize, plan and fund CWM response actions, less assessment and destruction.

(b) Coordinate with the EA to obtain prioritization based on Defense-wide needs, planning and ensure assessment and destruction requirements can be met.

(3) If a separate appropriation is not established, the costs associated with these functions will be absorbed by the Services' I&E Programs. However, some costs would not be attributable to a specific site (e.g., sustainment of crews and equipment for assessment and destruction, comprehensive archival search) and may not be eligible for DERP funding. Any cost associated with an operational range would be funded by affected the installation. Costs required to support explosives and munitions emergencies that involve CWM would require an increase in FORSCOM's funding for its 20th Support Command (CBRNE). Due to the complexity of the requirements, the uncertainties of costs at specific installations, the high level of public concern, and the risk to the Services' I&E Programs, the best approach is believed to be a separate appropriation.

5. The OIPT recommends:

a. The Secretary of Defense assign the SA as the EA for DoD's RCWM Program.

b. The SA:

(1) Delegate the EA responsibilities to the Assistant Secretary of the Army for Installations and Environment (ASA(I&E)), allowing for further delegation authority as ASA(I&E) determines necessary.

(2) Designate the U.S. Army Corps of Engineers (USACE) as the RCWM Response Executor.

c. The EA establish a RCWM Program Management Office (PMO) to manage the resources and develop policy necessary to respond to and destroy any RCWM, and guide the transition process. Program oversight will include establishment and maintenance of a database containing DoD's inventory of properties known or suspected to contain CWM.

d. U.S. Army Chemical Materials Agency (CMA) support development of a separate appropriation to fund the firehouse functions (see 4.i.(1)).

6. The need to establish an EA for the RCWM Program has become clear during this plan's development. Multiple agencies within the Army are currently responsible for various aspects (e.g., planning, budgeting, execution) of a response that involves or potentially involves the recovery of CWM. Several cost estimates for the recovery and

destruction of buried CWM have been generated in the past. These estimates have been highly variable. This problem has been noted in the DoD Inspector General's September 2003 report, the Chemical Demilitarization Program: Increased Costs for Stockpile and Non-Stockpiled Chemical Warfare Material Disposal Program (D-2003-128). In part, this problem is a result of individual organizations creating cost estimates using different assumptions for the same function or the overall approach. To address this problem, an integrated approach to the oversight and management of all aspects of the RCWM Program is needed. The EA will serve as the final arbiter for assumptions to be used for forming the basis of cost estimates. This will result in more consistent estimates that are fully supported by the multiple parties involved in the RCWM Program. It will also provide for consistency in dealing with regulatory agencies and addressing matters of concern to the public. This plan, which recommend establishment of an EA, provides an integrated consistent approach for addressing the CWM aspects of:

a. Responses conducted at DERP-funded munitions response sites (MRS)⁸ (e.g., FUDS, installations affected by BRAC decisions, active installations, and other properties transferred from DoD control).

b. Range clearance and other activities conducted on sites (e.g., operational ranges) where CWM or CAIS is known or suspected to be present, or where it is encountered.

c. Explosives or munitions emergency responses⁹ where a munition with an unknown liquid fill, CWM or, when appropriate, CAIS is encountered.

7. Currently, there are 194 DERP CWM sites and 55 locations on operational ranges known or suspected to contain CWM (see Appendix B). The majority are the Army's responsibility. These sites are located on FUDS, BRAC and active installations. There are 699 locations that are listed separately, but for which cost data is not included. These are listed separately because there is only anecdotal information that chemical-related activities (e.g., CAIS expended in training, CWM stored at the facility) occurred at these locations. Over time, some of these locations or locations on operational ranges may be added to the list of CWM sites if CWM or CAIS are discovered.

8. The total estimated cost of the RCWM Program over 30 years is presented as a range. The estimates provided, which do not identify the funding source, are based on

⁸ **Munitions Response Site (MRS)**. A discrete location within an MRA that is known to require a munitions response.

⁹ **Explosives or Munitions Emergency Responses**. All immediate response activities by an explosives and munitions emergency response specialist to control, mitigate, or eliminate the actual or potential threat encountered during an explosives or munitions emergency. An explosives or munitions emergency response may include in-place render-safe procedures, treatment or destruction of the explosives or munitions, and/or transporting those items to another location to be rendered safe, treated, or destroyed. Any reasonable delay in the completion of an explosives or munitions emergency response caused by a necessary, unforeseen, or uncontrollable circumstance will not terminate the explosives or munitions emergency. Explosives and munitions emergency responses can occur on either public or private lands and are not limited to responses at RCRA facilities. (40 CFR 260.10)

all current known or suspected requirements. These requirements include an estimated cost for addressing CWM on operational ranges at the end of the range's life-cycle or should a CWM burial site on an operational range be determined to present a threat to human health or the environment.¹⁰ As with any estimate, a number of factors (e.g., discovery of more or less munitions than estimated; a change in regulatory climate; or a change in the land's present, determined, or reasonably anticipated end use) will impact the actual cost of the RCWM Program. Both the low and high estimates include some ancillary costs. The RCWM Program startup costs (including training staff, developing appropriate cost estimating tools) are approximately \$10M. Assessment and destruction approximates \$36M per year for the firehouse functions; \$5M per year for RDT&E; and an additional \$10M for archival research over 4 years.

a. The lower range cost of the RCWM Program includes the cost of investigation; cleanup, including the cost for assessment and destruction of RCWM regardless of circumstances; and closeout. For some CWM sites, the estimated cost is based on what DoD believes is the most likely response—in many cases this is in-situ capping—given projected land uses, and not on a response vetted with regulatory agencies and affected stakeholders. The estimated cost for assessment and destruction is based on the number of munitions that are expected to require assessment, and the number of those assessed that are likely to be determined CWM. The low range cost is \$2.5 billion (B). This is the sum of \$765M for investigation; cleanup, less assessment and destruction; and site closeout, and \$1.7B for assessment and destruction and the other firehouse functions.

b. The higher range cost of the RCWM Program reflects the projected cost of complete removal of all munitions at CWM sites where there is no record of decision. The high range cost is \$17B. This is the sum of \$1B for investigation; cleanup, less assessment and destruction; and site closeout, and \$16B for assessment and destruction and the other firehouse functions.

9. The OIPT recognizes the recommended funding approach may not be optimum for funding management. However, it believes this approach optimum for both ensuring the continued availability of the firehouse functions (see 4.i.(1)), without a need for duplication, and integrating CWM responses, with other environmental responses, to allow a property to be returned to beneficial use (i.e., clean property, not property cleaned of just CWM). To obtain the desired visibility over the entire cost of the RCWM Program, the OIPT recommends establishment of a PB28 note for informational, non-additive exhibit. A proposed PB28 is provided at Appendix C.

¹⁰ DoD guidance does not allow cleanup of operational ranges with DERP funding. The cost estimate developed for the RCWM Program recognizes that there is a cost associated with these ranges that is not DERP eligible.

Recovered Chemical Warfare Material Program Implementation Plan (Recovery and Destruction of Buried Chemical Warfare Material)

1. Purpose.

a. This implementation plan:

(1) Responds to the Under Secretary of Defense for Technology and Logistics (USD(ATL))'s May 3, 2005 request (Appendix A) Subject: Designation of Responsibility for Recovery and Destruction of Buried Chemical Warfare Material (CWM).

(2) Provides for a comprehensive, consistent Department of Defense (DoD) approach to addressing chemical munitions and chemical agent¹¹ (CA) in other than munitions configurations (e.g., laboratory vials) (referred to as CWM), chemical agent identification sets (CAIS), and munitions with an unknown liquid fill.

b. This plan further addresses:

(1) The scope of the RCWM Program.

(2) The requirements associated with responses (e.g., characterization, destruction, and cleanup) to residual CA-contamination.

(3) Compliance with the Chemical Weapons Convention (CWC).

(4) Requirements for consolidating the management of the resources necessary to respond to and destroy any recovered CWM (RCWM) in a single office within the Army. While this plan focuses on munitions responses¹² that involve CWM (CWM response), it also addresses explosives or munitions emergency responses and responses involving CWM encountered on operational ranges and other locations.

(5) Available resources and recommends leveraging of these resources to implement an optimized and effective RCWM Program.

(6) RCWM Program Cost Estimate.

c. In response to the tasking by the USD(ATL), the Deputy Assistant Secretary of the Army for Environment, Safety and Occupational Health (DASA(ESOH)) formed, within the Army, a Buried CWM Integrated Product Team (IPT) and an Overarching

¹¹ **Chemical Agent (CA) Safety.** A condition where operational capability and readiness, people, property, and the environment are protected from the unacceptable effects or risks of a mishap involving CWM and CA in other than munitions configurations.

¹² **Munitions Response.** Response actions, including investigation, removal actions and remedial actions to address the explosives safety, human health, or environmental risks presented by UXO, DMM, or MC, or to support a determination that no removal or remedial action is required.

Integrated Product Team (OIPT) to develop the requested plan. Representatives from the following organizations participated in these teams.

- (1) Office of the DASA(ESOH) (ODASA(ESOH)).
- (2) Office of the Deputy Assistant Secretary of the Army for Elimination of Chemical Weapons (ODASA(ECW)).
- (3) Office of the Assistant Chief of Staff for Installation Management (ACSIM).
- (4) G-3, Department of the Army (DA G-3).
- (5) U.S. Army Corps of Engineers (USACE).
- (6) U.S. Army Chemical Materials Agency (CMA).
- (7) CMA's Project Manager for Non-Stockpile Chemical Material (PM NSCM).
- (8) U.S. Army Forces Command (FORSCOM) 20th Support Command (CBRNE).

2. Background.

a. Over the past two decades, the Army has prepared three reports to address DoD's potential liabilities for CWM response-related matters. The reports listed locations (now munitions response sites (MRS)) on properties that DoD used or formerly used for CA-related activities (e.g., production, training and disposal) that were known or suspected to contain CWM. These MRS, referred to as CWM sites, may be found on Formerly Used Defense Sites (FUDS), installations affected by Base Realignment and Closure (BRAC) decisions, active installations and other properties transferring or transferred from DoD. The three reports listed below provided rough cost estimates that varied greatly. The variations in estimates resulted from the use of different assumptions about the response required, variations in site counts and different approaches for the destruction of RCWM.

(1) In 1992, Public Law 102-484, Section 176, directed the Program Manager for Chemical Demilitarization (PMCD) to submit a report inventorying all non-stockpile CWM¹³ recovered (referred to as RCWM) to date; identifying locations where CWM was known or suspected to be present; and providing cost estimates, to include destruction of any RCWM, for the clean up of these CWM sites. PMCD's 1993 report, "The Survey and Analysis Report" identified 215 CWM sites that contained varying types and quantities of CWM across 33 states. PMCD believed the approximate contingent

¹³ CWM is divided into two categories: "stockpile" and "non-stockpile." The unitary stockpile materiel includes all CWM available for use on the battlefield. Stockpile CWM was stored at select locations in the United States. Non-stockpile CWM is a diverse grouping that includes all other CWM.

liability cost of this program was \$12 billion (B). This liability included the CWM responses¹⁴ PMCD believed required at 109 of these CWM sites (primarily on active Army installations and FUDS), and sustainment of equipment that the PM NSCM was developing for destruction of any CWM recovered at these sites.

(2) In 1996, PM NSCM revised PMCD's report. PM NSCM separated the inventory of locations where CWM was known or suspected to be present into three categories and included a total cost for each category. These categories described locations as either small or large sites, and sites only believed to have CAIS. The cost breakdown was \$5.4B for small sites, \$6B for large sites, and \$540 million (M) for sites with only CAIS. In this revision, PM NSCM:

(a) Increased the number of CWM sites from 215 to 224 sites across 38, instead of 33, states;

(b) Decreased the estimated number of sites that required a response from 109 to 101;

(c) Retained an estimate for sustainment of equipment that is used for destruction of any CWM recovered at these sites; and

(d) Provided a contingent liability of \$11.9B.

(3) In 2003, at the request of the ASA(I&E), PM NSCM provided a cost estimate for required response (cleanup) actions at three installations (Newport Chemical Depot, Indiana; Deseret Chemical Depot, Utah; and Pueblo Chemical Depot, Colorado). The estimate to complete the Army's planned response to remove and destroy any CWM recovered at these three sites totaled \$4.1B. This estimate was for a cradle-to-grave CWM response to the most stringent cleanup standard—unrestricted use. This \$4.1B liability for the three installations included the handling and disposal of all CA-contaminated media (e.g., soil) using mobile destruction equipment and modified, unitary RCWM destruction plants at each installation.¹⁵

(4) In addition to the above estimates, liabilities for FUDS, active installations, and BRAC are included in the Defense Environmental Restoration Program (DERP). Some of these sites also are listed in the 2003 report by PM NSCM. The costs listed in the DERP, including FUDS, provide for recovery of CWM, but do not include all costs for the assessment and destruction of RCWM. Collectively, these reports provided rough cost estimates for the number of CWM sites that were believed to require a CWM response, although there was some overlap between the DERP and the sites reported by PM NSCM.

¹⁴ **Chemical Warfare Material (CWM) Response.** Munitions responses and other responses to address the chemical safety; explosives safety, when applicable; human health; or environmental risks presented by CA-filled munitions and CA in other than munitions configurations. (See Munitions Response.)

¹⁵ A breakdown of costs by site was not available.

b. As a result of the disparity between these estimates and the overlap of responsibilities for these sites, on September 4, 2003, the DoD Inspector General (IG) concluded in its report, "The Chemical Demilitarization Program: Increased Costs for Stockpile and Non-Stockpile Chemical Material Disposal Programs," that the PM NSCM Program did not have the information from the Military Components to prepare a reliable cost estimate and schedule to dispose of buried CWM. The IG recommended that USD(ATL) direct the environmental offices of the Military Components to identify, schedule, and fund the disposal of buried CWM from active installations and BRAC installations, and that PM NSCM update the plan and cost estimate for disposal of buried CWM after receiving the cost estimates from each of the Military Components. In response, USD(ATL) requested that the Secretary of the Army (SA) develop an implementation plan consolidating requirements, reconciling sites and costs associated with each site for the recovery and destruction of buried CWM at active and BRAC installations and FUDS in the DERP.

c. During this plan's development, the need for an Executive Agent (EA) for the RCWM Program was made clear. Multiple agencies are currently responsible for various aspects of a response that involves or potentially involves CWM (e.g., planning, budgeting, execution). The agencies have independently developed costs for various aspects of the RCWM Program. These estimates have been highly variable. The assumption having the greatest impact on the CWM site cost-to-complete, where no record of decision (ROD) has been made, is the final remedy. This assumption is open to debate and results in widely variant costs (e.g., a plan for in-situ capping of buried CWM instead of complete removal and destruction). An integrated approach is needed to address these issues. The designation of an EA with responsibility for ensuring an integrated consistent approach to the oversight and management of all aspects of the RCWM Program is recommended.

3. Scope of the RCWM Program.

a. The proposed RCWM Program provides a comprehensive DoD approach for addressing CWM, CAIS, and munitions with an unknown liquid fill that are:

(1) Known or suspected to be present at MRS funded under the DERP. (MRS exist on FUDS, installations affected by BRAC decisions, active installations, and other properties transferred from DoD control.)

(2) Encountered in the public domain or on DoD property on other than operational ranges that are addressed during an explosives or munitions emergency.

(3) Discovered on operational ranges during range operations.

b. The RCWM Program includes:

(1) Explosives or munitions emergencies that involve CWM or munitions (or containers) with an unknown liquid fill;

(2) CWM response actions (e.g., investigation, recovery, temporary storage) that involve CWM or munitions (or containers) with an unknown liquid fill and assessment and destruction of:

(a) CWM. The recovery, storage and assessment of munitions with an unknown liquid fill is also addressed. The destruction of munitions that are not determined to be CWM is not included.

(b) CWM components (e.g., bomb bodies, projectiles) designed for CA fill and thus covered by the CWC.

(c) CAIS.

(d) Any resultant hazardous wastes.

(3) Responses to CA-contaminated media.

(4) Sustainment of the PM NSCM resources required to support the RCWM Program.

c. It does not include:

(1) Responses to explosives or munitions emergencies involving only conventional military munitions.

(2) CWM responses or explosives and munitions emergencies outside the United States.

(3) Responses to sea-disposed CWM.

4. Current Estimated Requirements.

a. DERP CWM responses. The below table outlines the 194 CWM sites located in 30 states, the District of Columbia, Guam and the Virgin Islands. When FUDS are included (the Army is DoD's EA for FUDS), the Army is responsible for approximately 86 percent of known CWM sites. The Air Force and Navy combined are responsible for only about 14 percent of known CWM sites.

DERP CWM Sites					
Number of Sites	Percentage	Breakdown of Number of Active Environmental Restoration Sites and FUDS Sites		Breakdown of Number of BRAC Sites	
		CWM	CAIS Only	CWM	CAIS Only
Army					
109	56%	84	6	17	2
USAF					
23	11%	19	3	-	1
Department of Navy					
3	2%	2	-	1	-
Marine Corps					
1	1%	-	1	-	-
FUDS					
58	30%	22	36	-	-
TOTALS					
194	TOTALS	127	46	18	3

b. The below table outlines 55 locations on operational ranges where CWM are known or suspected to be present.

CWM Locations on Operational Ranges			
Number of Locations	Percentage	Breakdown of Number of Locations	
		CWM	CAIS Only
Army			
51	93%	51	-
National Guard Bureau			
4	7%	4	-
USAF			
0	0%	0	-
Department of Navy			
0	0%	-	-
TOTALS			
55	TOTALS	55	0

c. The below table outlines 699 locations where anecdotal evidence indicates that CWM or CAIS may have been stored or used, but there is no physical evidence that it may be present.

Locations with Only Anecdotal Evidence of CWM or CAIS		
Number of CWM Locations	Percentage	Comment
Army		
87	12%	--
11	2%	NGB
USAF		
31	4%	--
USN		
6	1%	Navy
5	1%	Marine Corps
FUDS		
559	80%	
TOTALS		
699	TOTALS	--

5. CWM Response Process.

a. CWM responses, by definition, are planned responses that comply with applicable laws and regulations, international agreements, regulatory agreements (e.g., Federal Facility Agreements) and DoD and Service policies. Normally, such responses are conducted under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the National Contingency Plan (NCP). However, in some cases, these responses may be conducted under the Resource Conservation and Recovery Act (RCRA). Operational ranges will not typically be addressed by the CWM response process except during closure.

b. In some cases, it may be necessary to obtain RCRA operating permits to treat, store and dispose of RCWM. As the individual States typically have primacy for the regulation of Treatment, Storage and Disposal Facilities, the requirement to obtain a RCRA permit varies between States.

c. A relative priority for response actions must be determined for each MRS by the application of the Munitions Response Site Prioritization Protocol (MRSP) (32 CFR, Part 179). The MRSP's application assesses all munitions-related hazards (i.e., explosive, CWM, and human health). Per DoD policy, CWM sites are prioritized for response action, along with all other MRS, based on the relative risk assigned, with sites posing the highest relative risk, regardless the hazards present, given priority.

CWM sites may have hazards from each of the three categories, and not all sites known or suspected to contain CWM are assigned the highest relative priority under the MRSPP.

(1) The MRSPP must be applied to all known MRS by 2011. The Services are conducting CERCLA Site Inspections to obtain the information necessary to complete the MRSPP's application. The Services determine the sequencing of each MRS, to include those that contain CWM, for response actions.

(2) Locations on operational ranges known or suspected to contain CWM are not evaluated under the MRSPP.

(3) Sequencing of MRS for response actions may consider factors (e.g., environmental justice, community interests) other than risk.

d. Incidental environmental contaminants, including CA-breakdown products, would be considered part of the response action.

6. Compliance with the Chemical Weapons Convention.

a. The United States ratified the CWC on April 25, 1997. The CWC entered into force on April 29, 1997. DoD destroys all CWM per the CWC (10 U.S.C., Section 142).

b. The Deputy Assistant to the Secretary of Defense for Chemical Demilitarization and Threat Reduction (DATSD (CD and TR)) and the Army developed guidelines in May 2004 for implementation of the CWC. These DoD guidelines provide procedures for required notification and declarations related to the recovery of CWM, Chemical Weapons Storage Facilities (CWSF), and Chemical Weapons Destruction Facilities (CWDF). Among other things, DoD or Army procedures also address explosives or munitions emergencies that involve CWM; protocols to follow once CWM is discovered; coordination requirements; and disposition instructions.

c. Current HQDA G-3/5/7 charter designates the U.S. Army Materiel Command (AMC) as the Army Implementing Agent for the CWC. AMC designated the Director of CMA, who through CMA's Center for Treaty Implementation and Compliance (CTIC), performs this function with ongoing oversight and management through channels by HQDA G-3/5/7. The Army Treaty Compliance Manager in ASA(I&E) is responsible for CWC compliance issues that reasonably raise a concern of Army compliance with the CWC. The roles and responsibilities for CWC compliance are not expected to change should the Army be made EA for the RCWM Program. However, USACE, as the RCWM Response Executor may need to establish a Treaty Compliance Officer, and the Services may need to program funds to support compliance with the CWC.

d. In December 2005, the Organization for the Prohibition of Chemical Weapons (OPCW) approved DoD's declaration of the RCWM Destruction Facility (RCWDF). The RCWDF declaration allows the Army to designate any mobile or transportable

destruction technology for use within the United States without adhering to the 365-day CWDF notification timeline each time the DoD mobilizes the equipment.

e. Integration and synchronization of DoD's CWC compliance requirements with its safety and environmental protection requirements is normally seamless. Where all obligations can not be met, every effort to adhere to the CWC's intent and purposes, while complying with public safety and environmental regulations, will be made.

f. To the extent possible, the Army Treaty Compliance Manager in ASA(I&E) will seek clearance from the Under Secretary of Defense for Acquisitions (USD(A)), through the appropriate Compliance Review Group (CRG), before taking an action that reasonably raises an issue of DoD compliance with the CWC. When there is doubt whether clearance is necessary, clearance shall be sought.

7. Consolidation of Resources

a. Management.

(1) Most CWM sites are included in DoD's MRS Inventory,¹⁶ and many are already being addressed under the Military Munitions Response Program (MMRP). DoD implemented the MMRP under the legal authority of CERCLA and DERP. The MMRP addresses unexploded ordnance (UXO), discarded military munitions¹⁷ (DMM) and munitions constituents¹⁸ (MC).

(2) The RCWM Program should address all UXO and DMM that have CA fill; CA-contaminated media; CA in other than munitions configurations (e.g., CA in one-ton containers, CA in drums); and CAIS.

(3) The RCWM Program should also address the assessment of munitions with an unknown liquid fill that are encountered during CWM responses, in the public domain, or on operational ranges. Only those munitions determined to be CWM would be destroyed under the RCWM Program. This will ensure consistency nationwide and across DoD, avoid duplicating programs, and aid in efficient use of limited resources (crew and destruction equipment). The basic approach and management of required responses (e.g., the technology to assess and destroy the RCWM, and CWC notification requirements) for CWM sites and activities ineligible for DERP are the same.

¹⁶The National Defense Authorization Act for Fiscal Year 2002, Section 311(a), required the DoD to establish an inventory of defense sites known or suspected of containing unexploded ordnance (UXO), discarded military munitions (DMM), or munitions constituents (MC). DoD refers to such sites as munitions response sites (MRS).

¹⁷**Discarded Military Munitions (DMM).** Military munitions that have been abandoned without proper disposal or removed from storage in a military magazine or other storage area for the purpose of disposal. The term does not include unexploded ordnance, military munitions that are being held for future use or planned disposal, or military munitions that have been properly disposed of, consistent with applicable environmental laws and regulations. (10 USC 2710(e)(2))

¹⁸**Munitions Constituents (MC).** Any materials originating from UXO, DMM, or other military munitions, including explosive and non-explosive materials, and emission, degradation, or breakdown elements of such ordnance or munitions. (10 USC 2710(e)(3))

b. Implementation (Available Resources).

(1) Currently, planned (CWM responses) and unplanned (e.g., explosive or munitions emergency) responses known or suspected to involve CWM require support from a number of organizations, involve different funding sources, and require the use of equipment and operating crews provided by PM NSCM. Until full implementation of this plan (projected for 2011), the organizational structure that supports the current assessment and destruction process will remain viable.

(2) In this interim period, DASA(ESOH) will establish a RCWM Program Management Office (PMO). Initially, the RCWM PMO will be lead by DASA(ESOH)'s Assistant for Munitions and Chemical Matters and staffed by PM NSCM and USACE personnel, who working in coordination with DASA(ECW) and the Services' Program Managers, will address CWM response-related matters. The Services' Program Managers and other organizations that conduct or support CWM-responses will identify a single point of contact to work with the RCWM PMO. The RCWM PMO would be responsible for developing or revising CWM response policy and working with the Services' Program Managers to ensure resources are available to meet scheduled CWM responses and respond to explosives and munitions emergencies and other encounters of CWM.

c. Long-Term Implementation. The RCWM PMO will evolve into an organization with a small staff that reports to the EA. Since the majority of the activities performed by the RCWM PMO address operational matters, the RCWM PMO should not be a part of the acquisition community. However, the development, testing, and procurement of equipment and systems necessary to support the mission will continue to be managed as an acquisition program.

d. Proposed Responsibilities:

(1) Office of the Assistant Under Secretary of Defense (Environment, Safety and Occupational Health) will:

(a) Provide policy and guidance.

(b) Develop the Future Years Defense Program (FYDP) using input from the Services.

(2) The Assistant Secretary of the Army for Acquisition, Logistics and Technology (ASA(ALT)) is responsible for providing oversight of:

(a) Acquisition activities, including equipment development, procurement, testing, or fielding.

(b) Any use of Chemical Agents and Munitions Destruction, Defense (CAM,D) appropriations, including actions involving PM NSCM, as long as CAM,D-funded or within ASA(ALT)'s management control.

(3) The Assistant Secretary of the Army (Installations and Environment) through HQDA G-3/5/7 and the appropriate chain of command is responsible for providing oversight of CTIC-related activities to ensure compliance with the CWC.

(4) The Army, as EA for the RCWM Program, will provide centralized management oversight of CWM responses under DERP, range clearance activities, and other actions (e.g., explosives and munitions emergencies) that involve or potentially involve non-stockpiled CWM. The EA:

(a) Approves the allocation of resources required to support and oversee the execution of the firehouse functions.

(b) Ensures cross-functional coordination among Services, cost-effective and efficient use of limited resources.

(c) Develops policy and implementing procedures for CWM responses, to include:

1 Explosives and CA safety.

2 CWC compliance.

3 Security.

4 Assessment of UXO and DMM that contain an unknown liquid or CA fill.

5 Destruction of UXO, DMM and CA in other than munitions configurations discovered during:

a Planned munitions (CWM) responses funded by DERP.

b Explosives or munitions emergency responses.

c Range clearance operations.¹⁹

(d) Assembles data from each of the Services to provide visibility of total RCWM Program costs for responses that involve munitions with an unknown liquid or

¹⁹ **Range Clearance.** The destruction or removal and proper disposition of used military munitions (e.g., UXO and munitions debris) and other range-related debris (e.g., target debris, military munitions packaging and crating material) to maintain or enhance operational range safety or prevent the accumulation of such material from impairing or preventing operational range use. "Range clearance" does not include removal, treatment, or remediation of chemical residues or munitions constituents from environmental media, nor actions to address discarded military munitions (e.g., burial pits) on operational ranges.

CA fill, including development and maintenance of an inventory of CWM sites and other locations of potential interest.

(e) Reviews and approves Research, Development, Testing and Evaluation (RDT&E) requirements related to CWM responses.

(f) Reviews RCWM reports (e.g., Material Assessment Review Board (MARB), Chemical and Biological Event Reporting System (CBERS)) related to CWM responses to ensure the validity of established policy, consistency with policy, and identify potential policy gaps.

(5) The RCWM PMO will provide RCWM Program oversight to ensure requirements are met. AMC (CMA and PM NSCM) and USACE will designate single points of contact, who have tasking authority for their respective organizations, to work with DASA(ESOH)'s Assistant for Munitions and Chemical Matters to address RCWM Program-related matters. The RCWM PMO will, with DASA(ECW) and FORSCOM, work with the Services' Program Managers (see 7.d.(6)) to ensure requirements are met. The RCWM PMO:

(a) Allocates resources to meet assessment and destruction requirements for all response actions (i.e., CWM responses, explosives or munitions emergencies, range clearance activities) involving CWM or munitions with unknown liquid fills.

(b) Reviews and recommends EA approval of schedules for CWM responses and other actions (e.g., operational range clearance activities) at sites that are known or suspected to contain CWM.

(c) Works with the Services' Program Managers and CMA, to develop and maintain an inventory of CWM sites and locations known or suspected to contain CWM and a detailed CWM-site life cycle cost estimate. Provides the Office of the Secretary of Defense (OSD) information required to develop FYDP and RCWM Program Objective Memorandum (POM) submissions, including a separate appropriation.

(d) Reviews RDT&E requirements.

(e) Ensures CWC compliance requirements are implemented via CTIC.

(f) Provides coordination with:

1 OSD (e.g., USD(ATL), Deputy Undersecretary of Defense (Installations and Environment), and DoD Explosive Safety Board (DDESB)).

2 RCWM Response Executor.

3 Supporting agencies (e.g., PM NSCM; Services' Program Managers, Safety Centers; and Explosives Ordnance Disposal commands, particularly FORSCOM's 20th Support (CBRNE)'s chemical battalions).

4 The Services and OSD staff entities (e.g., DASA(ECW), CMA).

(g) Develops strategy to transition certain PM NSCM and USACE resources to a single entity responsible for the execution of the firehouse functions.

(h) Oversees and coordinates completion of CWM archival research.

(6) Services' Program Managers. The role of the Service Component staffs regarding program management, oversight and integration does not substantially change under this plan. Among other functions, these staffs continue to be responsible for providing environmental policy guidance, execution authority, and program management on all matters related to resourcing environmental responses, including CWM responses (less assessment and destruction). They also remain responsible for integrating CWM responses with other environmental response activities at a given site. The Services' Program Managers will:

(a) Ensure that installations and USACE Districts apply the MRSPP and forward the completed relative risk assigned for CWM response sites to the EA for the RCWM Program.

(b) Develop work plans for environmental responses, coordinating work plan scheduling of CWM responses with the RCWM PMO.

(c) Ensure coordination with the RCWM Response Executor representatives throughout the CERCLA or RCRA process and in the selection and design of CWM responses.

(d) Provide the RCWM Response Executor with the funding required to execute the CWM response, less firehouse functions, per applicable DoD policy and federal and state laws.

(e) Provide a single face to regulatory community and stakeholders, to include public affairs, during planning and oversight of CWM response actions. (The RCWM Response Executor will be responsible for on site management, CWM response activities, coordinating assessment and destruction of any CWM recovered, and providing technical support and materials to support outreach and public affairs.)

(f) Perform, with RCWM Response Executor support, real estate functions (e.g., obtaining rights of entry, reviewing deed restrictions) to support a CWM response.

(g) Prepare, coordinate and submit required reports (e.g., environmental liabilities, input for annual report to Congress), except CWC notifications and CBERS reports that the RCWM Response Executor submits. (Reports related to RCWM Program will be coordinated with RCWM PMO.)

(h) Maintain an inventory of CWM sites and locations on operational ranges where CWM is known or suspected to be present and notify the RCWM PMO of any potential new sites, as soon as they are identified.

(7) The US Army Chemical Materials Agency (CMA) has been tasked by the SA with responsibility for the demilitarization of chemical weapons, including non-stockpile CWM, and related functions. CMA:

(a) Will provide the RCWM PMO a single point of contact who has CMA decision and tasking authority to coordinate the scheduling and execution of CWM responses.

(b) Develops the life-cycle cost estimate and schedule for the CWM Assessment and Destruction separate appropriation to fund the firehouse functions. This funding requirement will:

1 Be projected for 30 years for CWM responses, and address the estimated costs of response designs for which regulatory concurrence has been obtained and worst-case costs (complete removal) of any known or suspected CWM present where there is no regulatory concurrence.

2 Be based on the 13 year CMA history in supporting explosives or munitions emergencies.

3 Include:

a Archival research for potential CWM sites in CONUS yet to be identified.

b RDT&E of equipment to support mission requirements or improvements to current assessment and destruction equipment.

(c) Under an appropriate acquisition program, will test and develop technology or technological improvements required to support the RCWM Program, and other related requirements.

(d) Sustains implementation of CWC treaty requirements until DoD's stockpiled chemical munitions are destroyed and will, unless transferred to another entity, sustain those treaty responsibilities performed by CTIC that need to be retained to support the RCWM Program.

(e) Pending approval of a strategy to transition the firehouse functions and certain PM NSCM and USACE resources to a single entity:

1 Resources and conducts the assessment of UXO, DMM, and munitions and containers that contain either an unknown liquid fill or a CA fill.

2 Ensures destruction of RCWM and derived secondary wastes in a safe, environmentally responsible, and cost effective manner in compliance with the CWC, during:

- a Planned CWM responses conducted under DERP.
- b Explosives or munitions emergency responses.
- c Range clearance operations.
- e Other, as required.

3 Sustains, as operational entities, resources required to support assessments of munitions with an unknown liquid fill and CWM, and the destruction of RCWM. Sustainment requirements include, but may not be limited to maintaining sufficient equipment, trained crews, and the ability to surge to meet mission requirements.

4 Maintains, as required by the EA for the RCWM Program, a programmatic database of information (e.g., MARB, air monitoring, CWC compliance for destruction, lessons learned).

5 Funds, records and catalogs all MARB recommendations and activities. (MARB recommendations will be provided to the RCWM PMO for distribution as appropriate.)

6 Provides annual, updated site level estimate information regarding assessment and destruction costs to the Services' Program Managers to support coordination, integration and planning.

(8) US Army Corps of Engineers (USACE), as the RCWM Response Executor:

(a) Will provide the RCWM PMO a single point of contact who has USACE decision and tasking authority to coordinate the scheduling and execution of CWM responses.

(b) Provides technical advice to Services' Program Managers and Installation Project Managers on the need for and design of CWM responses, operational range clearance and other activities where the probability of encountering CWM or CAIS is medium to high. Provides similar advice on low probability sites, when requested.

(c) Supports the Services' Program Managers in:

- 1 Planning CWM responses
- 2 Developing MRS cost-to-complete for CWM sites and sequence for POM submittal.

(d) Executes CWM responses, operational range clearance and other activities where the probability of encountering CWM and CAIS is medium to high or where CWM and CAIS have been encountered. Execution includes:

1 Preparing and coordinating required submissions to the DDESB and required plans for submission and approval per DoD and appropriate Service policy.

2 Coordinating all plans and operational details with the stakeholders.

3 Providing Public Affairs support for information exchange and public involvement.

4 Coordinating and integrating all on-site CWM response activities.

5 Coordinating and conducting required pre-operation surveys²⁰ and Table Top Exercises²¹.

6 Managing all on-site CWM site activities, in coordination with the Services' Program Managers.

(e) Performs all contract activities for CWM response that involve the placement of explosives on a site; the intentional physical contact with munitions and explosives of concern (MEC), or CA regardless of configuration; or the conduct of ground-disturbing or other intrusive activities in areas known or suspected to contain CA regardless of its configuration.

(f) Supports installations and USACE Districts in:

1 Preparing and submitting required reports (e.g., chemical event reports (CER)) related to CWM responses or range clearance or other activities under its management.

2 Responding to regulatory inquires and concerns.

3 Performing real estate functions (e.g., obtaining rights of entry, reviewing deed restrictions) required to support a CWM response.

²⁰ Survey to ascertain that personnel, equipment, and material required for work activities are onsite, that personnel are trained and qualified to perform their work assignments, and that work procedures and safety controls are appropriate for the tasks, effective in accomplishing the work objectives, and provide for an adequate level of safety. Preoperational surveys are based on the approved safety submission, incorporate personnel interviews, records reviews, equipment and material inventories and performance tests, and simulations of planned work and emergency response activities.

²¹ An exercise using simulations to conduct drills of emergency response to differing accident or incident scenarios to ensure the effectiveness of the response, identify deficiencies or omissions in the emergency response process, and establish continuity and coordination among response agencies.

4 Conducting public affairs and outreach, to include the implementation of required UXO Safety Education Programs.

(g) Provides for safety oversight on all CWM responses.

(h) Requests and participates on the MARB.

8. Resources for the RCWM Program

a. Funding.

(1) Program Cost History.

(a) Understanding the various cost estimates developed (see Background, above) to address the potential contingent liability associated with a RCWM Program and knowing that these and other related studies about this potential liability have little or no direct correlation to each other is critical to understanding the reason for the different cost estimate in this plan.

(b) The three primary cost estimates that were described previously varied for a number of reasons. These include, but are not limited to, the number of CWM sites considered, the destruction approach for any RCWM (e.g., transportable technology versus construction of fixed facilities), the cleanup standard applied given undefined end uses (e.g., unrestricted reuse or restricted reuse), and general vagueness in the definition of each CWM site.

(c) Since the estimates were made, the DoD has better defined the number of CWM sites, enhanced its destruction capability, and better determined cleanup requirements. It also has a better understanding of locations, both on operational ranges that are known or suspected to contain CWM and where anecdotal evidence indicates that CWM or CAIS may have been stored or used, but there is no physical evidence that it may be present. (See Appendix B.)

b. Cost Estimates. The total cost estimate (potential DoD liability) to address the RCWM Program focuses on the conduct of CWM responses (planned environmental responses at munitions response sites known or suspected to contain CWM) including the assessment and destruction of munitions. It also includes known response requirements on operational ranges and DoD's support of the other firehouse functions (i.e., support of explosives or munitions emergencies, sustainment of crews operational and assessment and destruction equipment, archival research, required RDT&E). Cost for sea-disposed CWM is not addressed.

(1) The total estimated cost of CWM responses over 30 years is presented as a range for investigation; cleanup, and site closeout, with additive costs provided for the other firehouse functions. The low and high estimates provided are based on all current known or suspected requirements, to include an estimated cost for the cleanup of operational ranges at the end of their life-cycle, or a CWM burial site on such a range

that is determined to present a threat to human health or the environment. As with any estimate, a number of factors (e.g., recovery of more or less munitions than estimated, a change in regulatory climate, a change in the land's current, determined, or reasonably anticipated end use) will impact the actual cost of the RCWM Program. Both the low and high estimates include some ancillary costs detailed in (c) below.

(a) The lower range cost includes the cost of investigation; cleanup, including the cost for assessment and destruction of RCWM regardless of circumstances; and closeout. For some CWM sites, the estimated cost is based on what DoD believes is the most likely response given projected land uses, and not on a response vetted with regulatory agencies and affected stakeholders. The cost for assessment and destruction is based on an estimated number of munitions requiring assessment and the number likely to be CWM. The low range cost for the RCWM Program is \$2.5B, which is the sum of \$765M for investigation; cleanup, less assessment and destruction; and site closeout, and \$1.7B for assessment and destruction and the other firehouse functions.

(b) The higher range cost reflects the projected cost of complete removal of all munitions at CWM sites where there is not a ROD . The high range cost for the RCWM Program is \$17B, which is the sum of \$1B for investigation; cleanup, less assessment and destruction; and site closeout, and \$16B for assessment and destruction and the other firehouse functions.

(c) The funding for the other firehouse functions include the below. The programmatic costs are expected to decrease quickly as the RCWM Program matures.

1 Explosives or munitions emergencies: \$16M per year

2 RDT&E: \$5M per year

3 Sustainment of crews and equipment: \$5M per year

4 Programmatic support, including program integration (air monitoring, safety, technical) support, configuration management, environmental oversight support, procurement support, and information management: \$15M per year

5 Archival research: \$2.5M per year for 4 years.

Total firehouse cost per year: \$41M per year, with \$43.5M required the first 4 years, based on the added \$2.5M for the archival research effort.

(2) As indicated above, assessment and destruction estimates are based on variations in the CWM response required at each CWM site on DoD's MRS inventory given projections about site-specific conditions, to include potential end uses.

(a) No cost data are included for CWM sites in the inventory that have been determined to be response complete (RC) or where, based on evaluation, a decision of “no further action for CWM” has been made.

(b) For sites that have a ROD for which a cost-to-complete (CTC) exists and all major factors considered remain true, only the CTC was applied. DERP response costs are directly derived from the annual MRS CTC updates for each CWM site. These estimates consider reasonably anticipated future uses of each site, regulatory requirements, and public concerns.

(c) Where site conditions are not fully known and where a major factor (i.e., property to be retained within DoD control has now been identified for release) has changed, even if a ROD or CTC exists, two costs were computed—one for most likely response action and one for worst case (removal of all munitions).

(3) Based on the known destruction cost, recorded CWM sites were divided into four categories: small, medium, large, and extra-large.

(a) Small CWM sites. Destruction costs were computed using a range of 1 to 25 CWM that have a fill of 2 CA types and are made up of 1 to 3 munitions body types. Small CWM sites are more prevalent at FUDS properties and active installations. Examples, where Small CWM site responses have been performed, are at Dugway Proving Ground, Aberdeen Proving Ground, Spring Valley (the former American University Experiment Station Test Sites), the former Rocky Mountain Arsenal, and the former Camp Sibert.

(b) Medium CWM sites. Destruction costs were computed using a range of 25 to 200 CWM that have a fill of 3 to 5 CA types and are made up of 3 to 5 munitions body types. Examples, where Medium CWM site responses have been performed, are at Schofield Barracks, Dugway Proving Ground, Aberdeen Proving Ground, and Redstone Arsenal.

(c) Large CWM sites. Destruction costs were computed using a range of 201 to 1,200 CWM that have a fill of 3 to 5 CA types and are made up of 3 to 5 munitions body types. The destruction requirements for RCWM at Pine Bluff Arsenal provide a cost factor for Large CWM sites. Examples, where Large CWM sites may exist, are at Aberdeen Proving Ground and Redstone Arsenal.

(d) Extra Large CWM sites. Destruction costs were computed using a potential CWM quantity of 1,201 or more that have a fill of 3 to 5 CA types and are made up of 3 to 5 munitions body types. Examples, where Extra Large CWM sites are believed to exist, are at Deseret Chemical Depot, Pueblo Chemical Depot, and Aberdeen Proving Ground.

c. Near-Term RCWM Program Funding:

(1) On-going program management funds (estimated at \$3.2M) will be required to establish and maintain the RCWM Response Executor. In the out-years, these funds may come from programmed CWM responses.

(2) RDT&E funds (estimated at \$5M annually, based on historical funding) will be needed for continued RDT&E of technologies required to support the RCWM Program. The complexity and site-specific nature of CWM sites and current technological constraints may require continued development or testing of off-the-shelf technologies. This may include development or testing of:

- (a) Non-intrusive ground-penetrating detection equipment
- (b) Glassware detection technology
- (c) Wide area assessment technology
- (d) Individual CWM assessment (field, rapid)
- (e) Storage and transport technologies
- (f) RCWM destruction technologies (replacement or enhancement)

(3) O&M funds (estimated at \$36M annually based on 30 years of operations) will be required to sustain the resources (e.g., destruction, assessment technologies; crews; training; repair parts, waste disposal service) and to support explosives or munitions emergencies, CWM responses, range clearance or modernization activities that involve CWM.

d. Long-Term RCWM Program Funding:

(1) Funding of CWM Response (less assessment and destruction). The Services' Program Managers will integrate CWM responses in their respective programs and provide funding as per an annual plan of work. The funding for this proposed 30-year program will be laid out under the Planning, Programming, Budgeting and Execution System (PPBE) once the EA for RCWM Program is designated.

(2) Funding of Firehouse Functions. The second source of funding would be by a separate appropriation. Currently, the CAM,D account funds the firehouse functions, the baseline stockpile, and the 2009 completion of existing non-stockpile programs. It only provides limited funding for explosives or munitions emergency responses. A new separate appropriation is needed by 2011, when the CAM,D account no longer funds PM NSCM functions. If established sooner, funds included in the CAM,D account that support firehouse related functions would need to be realigned into the new separate appropriation.

APPENDIX A

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ACQUISITION,
TECHNOLOGY
AND LOGISTICS

THE UNDER SECRETARY OF DEFENSE

3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010

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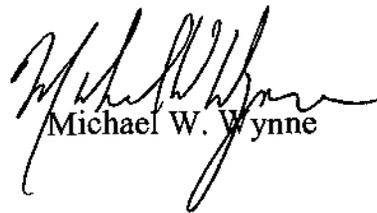
MEMORANDUM FOR SECRETARY OF THE ARMY

SUBJECT: Designation of Responsibility for Recovery and Destruction of Buried Chemical Warfare Material (CWM)

The Secretary of the Army, in coordination with the Deputy Under Secretary of Defense (Installations and Environment) (DUSD (I&E)), is requested to develop an implementation plan for the recovery and destruction of buried CWM at active installations and formerly used defense sites subject to the Defense Environmental Restoration Program (DERP). The plan will be one of several factors considered in support of a decision by the Secretary of Defense regarding whether to designate the Secretary of the Army as the executive agent for recovery and destruction buried chemical warfare material in the U.S.

The plan should address at a minimum: (1) requirements for the consolidation of the associated resources for recovery and destruction of buried CWM sites into a single office within the Army; (2) the scope of the program; (3) the characterization, destruction, and cleanup of residuals contamination; (4) plans for declaring the uncovered chemical weapons and/or chemical weapon-related material in accordance with provisions of the Chemical Weapons Convention; (5) available resources; (6) funding requirements over the Future Years Defense Program (FYDP); and, (7) life cycle cost requirements.

The Army should submit the plan through the DUSD (I&E) within 180 days after the date of this memorandum. My point of contact for this action, Mr. Patrick Meehan, can be reached at (703) 695-7957.


Michael W. Wynne



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APPENDIX B

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Table B-1
DERP CWM Sites - Active Environmental Restoration and FUD Sites

Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM	Regulatory Phase
Army - CWM							
Old Bone Yard Site	MSFC-003-R-02	AL213820742	Redstone Arsenal	AL	A- Army		PA/SI
World War II Lewisite Manufacturing Facility Site	RSA-049	AL213820742	Redstone Arsenal	AL	A- Army	AMC	RI/FS
Former Chemical Storage Area X	RSA-065	AL213820742	Redstone Arsenal	AL	A- Army	AMC	RI/FS
Former Chemical Storage Area AA	RSA-067	AL213820742	Redstone Arsenal	AL	A- Army	AMC	RI/FS
Former Mustard Gas Storage Area Y	RSA-069	AL213820742	Redstone Arsenal	AL	A- Army	AMC	RI/FS
Area Of Former Mustard Gas Demil Operations	RSA-112	AL213820742	Redstone Arsenal	AL	A- Army	AMC	RI/FS
Mustard Gas Demil Site and Disposal Trenches and Burn Pits	RSA-113	AL213820742	Redstone Arsenal	AL	A- Army	AMC	RI/FS
Inactive Madkin Mountain Rock Quarry	RSA-114	AL213820742	Redstone Arsenal	AL	A- Army	AMC	RI/FS
Building 4656, 4.3-in Mortar Disposal Site	RSA-141-R-1	AL213820742	Redstone Arsenal	AL	A- Army	AMC	PA/SI
Bombing Mat Vicinity	PBA-001-R-01	AR213820707	Pine Bluff Arsenal	AR	A- Army	AMC	PA/SI
Mortar Range (Yellow Lake Borrow Area)	PBA-002-R-01	AR213820707	Pine Bluff Arsenal	AR	A- Army	AMC	PA/SI
Depot Storage Yard (SWMU-22)	PBA-7A	AR213820707	Pine Bluff Arsenal	AR	A- Army		RA(C)
Old Chemical Laboratory	YPG-01	AZ214120991	Yuma Proving Ground	AZ	A- Army		LTM
Basin A/South Plants No. Plume	A-SPN	CO213820769	Rocky Mountain Arsenal	CO	A- Army		RA(O)
Disposal Trenches-Complex Trenches	CSA-1C	CO213820769	Rocky Mountain Arsenal	CO	A- Army		RA(C)
Enhanced Hazardous Waste Landfill	ELF	CO213820769	Rocky Mountain Arsenal	CO	A- Army		LTM
Basin F Wastepile	Fwastepile	CO213820769	Rocky Mountain Arsenal	CO	A- Army		RA(C)
North/Basins C&F Plume	N-CF	CO213820769	Rocky Mountain Arsenal	CO	A- Army		RA(O)
Lime Basins-Settling Basins	NCSA-1B	CO213820769	Rocky Mountain Arsenal	CO	A- Army		RA(C)
Section 36 Bal. of Areas Soil Remediation	NCSA-1G	CO213820769	Rocky Mountain Arsenal	CO	A- Army		RA(C)
Secondary Basins-Basin F Exterior	NCSA-4B	CO213820769	Rocky Mountain Arsenal	CO	A- Army		RA(C)
North Boundary Containment System	N-NP	CO213820769	Rocky Mountain Arsenal	CO	A- Army		RA(O)

Table B-1
DERP CWM Sites - Active Environmental Restoration and FUD Sites

Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM	Regulatory Phase
Agent Testing-Underground Spill Area	NPSA-6	CO213820769	Rocky Mountain Arsenal	CO	A- Army		RA(C)
Northwest Boundary Containment Sys	NW-A	CO213820769	Rocky Mountain Arsenal	CO	A- Army		RA(O)
Northwest/Sand Creek Lateral Plumes	NW-SC	CO213820769	Rocky Mountain Arsenal	CO	A- Army		RA(O)
Northern Pathway	OU-N	CO213820769	Rocky Mountain Arsenal	CO	A- Army		RA(O)
Fiirst Creek	OU-NW	CO213820769	Rocky Mountain Arsenal	CO	A- Army		RA(O)
South Plants Balance Central Processing	SPSA-1A	CO213820769	Rocky Mountain Arsenal	CO	A- Army		RA(C)
Hero Road Trench Area	FTSW-008-R-1	GA214020872	Fort Stewart	GA	A- Army	FORSCOM	RI/FS
Demilitarization Grounds & Trench	BLGR-006	KY213820105	Blue Grass Army Depot	KY	A- Army	AMC	LTM
Antitank Range	FTDV-005-R-01	MA210420270	Ft. Devens (Devens Reserve Training Facility)	MA	A- Army		PA/SI
Former EOD Range	FTDV-006-R-01	MA210420270	Ft. Devens (Devens Reserve Training Facility)	MA	A- Army		PA/SI
King's Creek (Kings Crk Cluster 3B)	APG-002-R-02	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	PA/SI
King's Creek (Kings Creek disposal area)	APG-002-R-03	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	PA/SI
King's Creek (30th Street Landfill)	APG-003-R-02	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	PA/SI
King's Creek (Bush River Dock)	APG-003-R-03	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	PA/SI
King's Creek	APG-003-R-04	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	PA/SI
Canal Creek Study Area (EACC7)	APG-004-R-01	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	PA/SI
Lauderick Creek - Study Area School Fields	APG-013-R-01	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	PA/SI
22nd Street Landfill	EABR11-C	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RD
Radioactive Material Disposal	EABR11-I	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
King's Creek Chem Disposal Site CLU15	EABR-15A	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army		RI/FS
King's Creek	EABR15-B	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army		RI/FS

Table B-1
DERP CWM Sites - Active Environmental Restoration and FUD Sites

Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM	Regulatory Phase
Canal Creek Study Area (G-Street Salvage Yard CLU 1A)	EACC1A-B	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
Canal Creek Study Area	EACC1H-E	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	LTM
Canal Creek Study Area (Mustard Plant Area CLU 1H)	EACC1H-G	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
Canal Creek Study Area	EACC1K	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
Canal Creek Study Area	EACC2A	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
Canal Creek Study Area (Bldg E3570 assembly plant CLU 3I)	EACC3I	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
Canal Creek Study Area (Bldg E3640 Process Lab CLU 3L)	EACC3L	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
Canal Creek Study Area (B-Field Range Clu 30)	EACC3O	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
J-Field Study Area	EAJF00	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	LTM
G-Field	EAOE08	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
H-Field	EAOE12	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
K-Field	EAOE51	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
Old O-Field	EAOF01	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RD
Chemical Warfare Demonstration Area	FTSH-006-R-01	TX211620429	Fort Sam Houston	TX	A- Army		PA/SI
V-Grid	DPG-003	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RI/FS
Storage	DPG-009	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	LTM
	DPG-014	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RA(C)
	DPG-015	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RA(C)
South Tower Grid	DPG-017	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RI/FS
Base Pond	DPG-023	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RI/FS
Unknown 4	DPG-037	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	LTM

Table B-1
DERP CWM Sites - Active Environmental Restoration and FUD Sites

Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM	Regulatory Phase
DPG-051 (Evaporation Pond Near DTC)	DPG-051	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	LTM
East Carr	DPG-052	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RI/FS
East Carr Old Range	DPG-054	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RD
Carr Facility (3X Disposal Pits)	DPG-055	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RI/FS
Carr Facility (Evaporation Pond at Carr Facility)	DPG-058	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RD
Carr Facility (Chemical Storage Facility at Carr)	DPG-060	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RI/FS
Unknown 2	DPG-061	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RI/FS
Waste Pit	DPG-079	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RI/FS
Carr Facility	DPG-090	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	LTM
Carr Facility	DPG-098	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	LTM
Test Site	DPG-114	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RI/FS
Carr Facility	DPG-150	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RI/FS
Carr Facility	DPG-154	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RI/FS
Landfill	DPG-180	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RI/FS
Rocket Pit	DPG-192	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RI/FS
Old Range	DPG-194	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RI/FS
North Camel Back Ridge	DPG-201	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RI/FS
Range 1	DPG-204	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RI/FS
Carr Facility (Disposal Trenches and Mounds)	DPG-207	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RD
Carr Facility (Drum Burial Site SE of Carr)	DPG-208	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RI/FS
Army - CAIS							
Poleline Road Disposal Area	FTRS-39	x	Fort Richardson	AK	A- Army	USARPAC	RA(O)
Operation Cleanup Disposal Pits	GRTS-001	x	Gerstle River Test Site	AK	A- Army	USARPAC	RI/FS
GRTS-003	GRTS-003	x	Gerstle River Test Site	AK	A- Army	USARPAC	RC
Jamestown Road Site	FBSB-87	x	Fort Benning	GA	A- Army	TRADOC	NFAC
Range 23-A	POLK-06	A06LA0047	Fort Polk	LA	A- Army	FORSCOM	RC
Landfill Site #8	Site-08	x	Camp Bullis	TX	A- Army	MEDCOM	RI/FS

Table B-1
DERP CWM Sites - Active Environmental Restoration and FUD Sites

Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM	Regulatory Phase
USN - CWM							
Southeast Quarter Mustard Gas Burial Ground		IN517002350000	Naval Surface Warfare Center, Crane Division	IN	N- Navy	CNI	RIP
Proving Ground	UXO 00003 Proving Ground	NJ217002727400	Naval Air Warfare Center, Aircraft Division, Lakehurst	NJ	N- Navy	NVNSSC	PA/SI
USN - CAIS							
Rifle Range Chemical Dump	Camp LeJeune CAIS	x	Camp Lejeune	NC	N-Navy	Marine Corps	CMS
USAF - CWM							
Gas #1 1943 (MRA 605)	CW605	CA957212450800	Beale AFB	CA	AF-Air Force		PA/SI
Gas #5 1943 (MRA 606)	CW606	CA957212450800	Beale AFB	CA	AF-Air Force		PA/SI
Gas #18 1943 (MRA 607)	CW607	CA957212450800	Beale AFB	CA	AF-Air Force		PA/SI
Gas #2 1943 (MRA 608)	CW608	CA957212450800	Beale AFB	CA	AF-Air Force		PA/SI
Site 432, East Aberdeen Bombing Mission Target Area	OT432	CA957172450400	Edwards Air Force Base	CA	AF-Air Force	AFMC	RI/FS
Site 442, Known Explosive Ordnance Division Burial Location	OT442	CA957172450400	Edwards Air Force Base	CA	AF-Air Force	AFMC	RI/FS
Area of Concern (AOC) 471, Agent Orange Test Location		CA957172450400	Edwards Air Force Base	CA	AF-Air Force	AFMC	
Ranges		CA957172450400	Edwards Air Force Base	CA	AF-Air Force	AFMC	
Old Strategic Air Command SWMU-44	LF011	FL457182458200	MacDill Air Force Base	FL	AF-Air Force	AFAMC	RI/FS
East Red Chute Bayou Rifle Range	ML051	LA657212405000	Barksdale AFB	LA	AF-Air Force		PA/SI
Remainder of East Reservation	MU055	LA657212405000	Barksdale AFB	LA	AF-Air Force		PA/SI
Western Bomb Target	MU056	LA657212405000	Barksdale AFB	LA	AF-Air Force		PA/SI
Poorman Type Range	SR050	LA657212405000	Barksdale AFB	LA	AF-Air Force		PA/SI
Moving Target Machine Gun	SR053	LA657212405000	Barksdale AFB	LA	AF-Air Force		PA/SI
Carbine	SR054	LA657212405000	Barksdale AFB	LA	AF-Air Force		PA/SI
DP-36 Mustard Gas/Lewisite Training Facility	DP036	LA657212405000	Barksdale Air Force Base	LA	AF-Air Force	DCC	RI/FS
Unknown-Columbus		MS457152406000	Columbus Army Airfield	MS	AF-Air Force	ATEC	
Chemical Training Site	CW691	NC457212447500	Pope AFB	NC	AF-Air Force		PA/SI
Gas Chamber Area	IN618	WA057182420000	McChord AFB	WA	AF-Air Force		PA/SI
USAF - CAIS							
Holloman landfill, Alamogordo Army Airfield		x	Holloman Air Force Base	NM	AF-Air Force	ACC	RC 2004

Table B-1
DERP CWM Sites - Active Environmental Restoration and FUD Sites

Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM	Regulatory Phase
Southwest Corner of Air Base Boundary Fence	CAIS	SD857212464400	Ellsworth Air Force Base	SD	AF-Air Force	ACC	
Unknown-Warren	CAIS	x	F.E. Warren Air Force Base	WY	AF-Air Force		RI/FS
FUDS - CWM							
Unalaska Island, Dutch Harbor	F10AK084107	AK09799F250400	Captain's Bay	AK	F-FUDs	FUDS	RI/FS
Attu Island	F10AK005504	AK09799F254500	Chemical Area	AK	F-FUDs	FUDS	RI/FS
Fort Glenn	F10AK098404	AK09799F278300	Chemical Storage Area, CWS Decontamination Areas A&B, former Ammunition Storage Area.	AK	F-FUDs	FUDS	RI/FS
Camp Sibert	I04AL005702	AL49799F421600	Site 2A & B, Alt Site 2B, Site 3, Site 4, Site 6, Site 8, Site 9, Site 11, Site 11A, Site 12, Site 13, Site 14, Site 15, Site 16	AL	F-FUDs	FUDS	RI/FS
Catholic University Research Station	C03DC092001	DC39799F812500	Maloney Chemical Laboratory	DC	F-FUDs	FUDS	RI/FS
Spring Valley		C03DC091801	Spring Valley	DC	F-FUDs	FUDS	RA(C)
Fort Pierce Naval Amphibious Training Base	I04FL069801	FL49799F461400	CWM Test Area, Chemical Training Area, Former Artillery Range - Area 6	FL	F-FUDs	FUDS	RI/FS
Withlacoochee AF	I04FL007801	FL49799F436500	Section 4 Area; Sections 19, 30 and 31; Sections 21, 28, and 29; Harden Hammock.	FL	F-FUDs	FUDS	RI/FS
Marysville Chemical Site	B07KS000101		Milepost #116	KS	F-FUDs	FUDS	PA/SI
Chemical Warfare Development Division	E05MI120701	MI59799FA20900	Bldg 20A, Bldg 30, Graveyard/Sandhill	MI	F-FUDs	FUDS	Site Closeout
Cleveland Plant	G05OH099006	OH59799F883400	Cleveland Plant	OH	F-FUDs	FUDS	RA(C)
Ohio Rubber Company	G05OH098301	OH59799F371700	Ohio Rubber Company	OH	F-FUDs	FUDS	RI/FS
Charleston Army Depot	I04SC000801	SC49799F491900	Poison Gas (Area 6), Small Boat Wet Storage Basin (Area 7), Port Terminal Dock Area (Area 8) and the Sea Dump Site (Area 9)	SC	F-FUDs	FUDS	RI/FS

Table B-1
DERP CWM Sites - Active Environmental Restoration and FUD Sites

Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM	Regulatory Phase
Black Hills Ordnance Depot	B08SD000802	SD89799F077100	Burning Ground(BG) 1, BG-2, BG-3, the Ammunition Workshop Area, Igloo Block G, and the Chemical Area	SD	F-FUDs		RI/FS
Duck River Chemical Warfare Service Plant	G04TN017200		Duck River Chemical Warfare Service Plant	TN	F-FUDs		PA/SI
San Jacinto Ordnance Depot	K06TX003602	TX69799F646600	Destruction Area A and B	TX	F-FUDs		RI/FS
Fort Segarra	I02VI097701		Test Areas 4, 5 8, and Flamingo Bay Landfill	USVI	F-FUDs		RA(C)
Yellow Jacket Ranges	J08UT109801	UT89799F825000	Yellow Jacket Mines, Great Western Mines and Old Ironside Mine	UT	F-FUDs		RI/FS
Tulalip Munitions Depot		WA09799F318900	Suspect Chemical Burial Area	WA	F-FUDs		PA/SI
FUDS - CAIS							
Courtland Army Airfield	I04AL004904	AL49799F420900	Area D, Area E, Area F	AL	F-FUDs	FUDS	RI/FS
Stuttgart Army Airfield	K06AR006302	AR69799F605100	Area 1, Area 6	AR	F-FUDs	FUDS	RI/FS
Base Chemical Depot, the Chemical Ammunition Dump and the Infiltration Course		J09CA029601	Camp Young	CA	F-FUDs	FUDS	RI/FS
Area A	J09CA0532	J09CA053202	Palm Springs Army Airfield	CA	F-FUDs	FUDS	RI/FS
Santa Rosa Army Airfield	J09CA002602	CA99799F524400	Santa Rosa Army Airfield	CA	F-FUDs	FUDS	RI/FS
Camp Hale	B08CO001403	CO89799F051300	Gas Chamber Area, Poison Gas Burial Area	CO	F-FUDs	FUDS	RI/FS
Buckley Field	B08CO0021			CO	F-FUDs	FUDS	RA(C)
Boca Raton AAF	Gas Instruction Building, Laboratory and Demonstration Area	I04FL016701	Boca Raton AAF	FL	F-FUDs	FUDS	RI/FS
Brooksville Army Airfield	I04FL006601	FL49799F436300	Area 1, Area 2, Suspect Disposal Site	FL	F-FUDs	FUDS	RA(C)
LakelandAAF	I04FL018903	FL49799F441300	Gas Chamber and storage buildings - Area 1, Mustard Area Chemical Magazine - Area 2	FL	F-FUDs	FUDS	RI/FS
Bushnell AAF	I04FL006702	FL49799F436400		FL	F-FUDs		RI/FS
Daniel Field	I04GA098900	GA49799F827300	Daniel Field	GA	F-FUDs	FUDS	RI/FS

Table B-1
DERP CWM Sites - Active Environmental Restoration and FUD Sites

Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM	Regulatory Phase
Herbert Smart Field	I04GA100701	GA49799F789300	Herbert Smart Field	GA	F-FUDs	FUDS	RI/FS
5th Field Marine Supply Depot	H09GM0301	x	5th Field Marine Supply Depot	Guam	F-FUDs	FUDS	RA(C)
Camp Dodge and Polk County National Guard Target Range	B07IA000401	x	Camp Dodge	IA	F-FUDs	FUDS	RI/FS
Fort Des Moines	B07IA072903	IA79799F022800	Pistol Range and Chemical Training Site	IA	F-FUDs	FUDS	RI/FS
Independence Army Airfield	B07KS022702	KS79799F028500	Gas Instruction Bldg, Dump site, Ordnance Storagr Area	KS	F-FUDs	FUDS	RI/FS
Coffeyville Army Airfield	B07KS018702	KS79799F025500	Gas Instruction Building, Chemical Warfare Warehouse, Toxic Gas Yard	KS	F-FUDs	FUDS	RI/FS
Pratt Army Airfield	Chemical Area, Ordnance Storage Area, Dump Site North of Sewage Treatment Lagoon, Landfill North of Airfield off Hwy. 281	B07KS024402	Pratt Army Airfield	KS	F-FUDs	FUDS	RI/FS
Walker Army Airfield	B07KS028602	KS79799F032400	Ordnance Storage Area, Gas Chamber and Demonstration Area, Instruction Bldg, Landfill	KS	F-FUDs	FUDS	RI/FS
Gas Chamber #110, Former Pistol Ranges	B07MO013801	x	Camp Crowder	MO	F-FUDs	FUDS	RI/FS
Camp Shelby Manuever Area	A04MS027401	MS49799F012000	Mustard Gas Area, 1950 Technical Escort Investigation Area, Possible Buried Chemical Agent, Unknown Fenced Area, EOD-4, EOD-5, FUDS	MS	F-FUDs		RI/FS
Jackson Fairgrounds	A04MS037101	x	Jackson Fairgrounds	MS	F-FUDs	FUDS	Site Closeout
Laurinburg-Maxton Army Air Base	I04NC001903	NC49799F482900	Laurinburg-Maxton Army Air Base	NC	F-FUDs	FUDS	RI/FS
Atlantic City Naval Air Station	Building 32, Building 72	C02NJ097701	Atlantic City Naval Air Station	NJ	F-FUDs	FUDS	SI
Raritan Arsenal	C02NJ008404	NJ29799F095700	Area 5	NJ	F-FUDs	FUDS	RI/FS
Harvard Target Range	B07NE0055		Harvard Target Range	NE	F-FUDs	FUDS	RA(C)
McCook Army Airfield	B07NE0441	B07NE044101	McCook Army Airfield	NE	F-FUDs	FUDS	RA(C)

Table B-1
DERP CWM Sites - Active Environmental Restoration and FUD Sites

Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM	Regulatory Phase
Gas Chamber Area	K06NM0342	K06NM034202	Carlsbad Army Airfield	NM	F-FUDs	FUDS	RA(C)
Deming Army Airfield	K06NM0380	K06NM038003	Deming Army Airfield	NM	F-FUDs	FUDS	RA(C)
Lockbourne Air Force Base	Lockbourne Air Force Base	G05OH000725	Lockbourne Air Force Base	OH	F-FUDs	FUDS	RI/FS
Camp Reynolds	C03PA1072	C03PA107202	Camp Reynolds	PA	F-FUDs	FUDS	RA(C)
New Cumberland Army Depot	C03PA040302	PA39799F147200	Marsh Run Field, Ddisposal Area south of Marsh Run Creek	PA	F-FUDs	FUDS	RI/FS
Columbia Army Airbase	I04SC044503	SC49799FF494900	Columbia Army Air Base	SC	F-FUDs	FUDS	RI/FS
Walterboro Army Airfield	I04SC044603	SC49799F49500	Walterboro Army Airfield	SC	F-FUDs	FUDS	RI/FS
Fort Barkeley Area Marked with Four "Gas Danger" Signs	Camp Barkeley	KO6TX000705	Camp Barkeley	TX	F-FUDs	FUDS	RA(C)
Ordnance Storage, Gas Chamber and the Suspected Burial Site	K06TX0062	K06TX006201	Pampa Army Airfield	TX	F-FUDs	FUDS	RI/FS
Paine Field		F10WA003806	Paine Field	WA	F-FUDs	FUDS	RI/FS

Table B-2
DERP CWM Sites - BRAC

Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM	Regulatory Phase
Army - CWM							
SWMU 12 (Gas or Mustard Disposal Area, PUADA-011)	PUADA-008-R-01	CO213820725	Pueblo Chemical Depot	CO	A- Army	AMC	RI/FS
SWMU 13 (Chemical Warfare Burial, PUADA-010)	PUADA-009-R-01	CO213820725	Pueblo Chemical Depot	CO	A- Army	AMC	RI/FS
SVAD-009 (Area 9)	SVAD-004-R-01	IL213820803	Savanna Army Depot Activity	IL	A- Army	AMC	RI/FS
SVAD-007 (Disposal)	SVAD-007-R-01	IL213820803	Savanna Army Depot Activity	IL	A- Army	AMC	RI/FS
SVAD-008 (Area 8, Fire Pits)	SVAD-008-R-01	IL213820803	Savanna Army Depot Activity	IL	A- Army	AMC	RI/FS
SVAD-013 (Disposal) & SVAD-014 (Area 14)	SVAD-009-R-01	IL213820803	Savanna Army Depot Activity	IL	A- Army	AMC	RI/FS
SVAD-074	SVAD-074	IL213820803	Savanna Army Depot Activity	IL	A- Army	AMC	RI/FS
SVAD-038 (Storage)	SVAD-38	IL213820803	Savanna Army Depot Activity	IL	A- Army	AMC	RI/FS
SVAD-039 (Storage)	SVAD-39	IL213820803	Savanna Army Depot Activity	IL	A- Army	AMC	RI/FS
Chemical Plant	NAAP-014	IN213822272	Newport Chemical Depot	IN	A- Army	AMC	RA(C)
Decontaminated Waste Burial Ground	NAAP-022-R-01	IN213822272	Newport Chemical Depot	IN	A- Army	AMC	PA/SI
East Demil Area/Disposal Pits (SWMU 1) & Mortar Pit (SWMU 4)	DCD-002-R-01	UT213820265	Deseret Chemical Depot	UT	A- Army	AMC	PA/SI
Gravel Pit (SWMU 2)	DCD-003-R-01	UT213820265	Deseret Chemical Depot	UT	A- Army	AMC	PA/SI
West Demil Area/Disposal Pits (SWMU 25)	DCD-006-R-01	UT213820265	Deseret Chemical Depot	UT	A- Army	AMC	PA/SI
Disposal Pit (SWMU 3)	TEAD(S)-03	UT213820265	Deseret Chemical Depot	UT	A- Army	AMC	RA(C)
Building 600 Foundation, Drainage Pond, and Ditch (SWMU 5)	TEADS-05	UT213820265	Deseret Chemical Depot	UT	A- Army	AMC	LTM
Area 2 and Old Area 2 (SWMU 9)	TEADS-09	UT213820265	Deseret Chemical Depot	UT	A- Army	AMC	LTM
Army - CAIS							
CAIS Recovery Site		CA214020791	Presidio of San Francisco	CA	A- Army	FORSCOM	RA(C)
USAF - CAIS							
Former EOD Range	Grid E58		Plattsburgh Air Force Base	NY	AF-Air Force	AFBCA	
USN - CWM							
Charleston NWS	SWMU 75 Goose Creek	SC49799498400		SC	N- Navy		PA/SI

Table B-3
CWM Locations on Operational Ranges

Name of Site	Official Site Name	Historical Name(s)	FFIDC	Name of Location	State	Installation Type	MACOM	Regulatory Phase
Army -CWM								
Unlined Inactive Open Burn Pads	RSA-013		AL213820742	Redstone Arsenal	AL	A- Army	AMC	RI/FS
Unlined Inactive Burn Trenches	RSA-014		AL213820742	Redstone Arsenal	AL	A- Army	AMC	RI/FS
Inactive Chemical Munitions Test Site	RSA-046	OU-12 Inactive Munitions Demil & Disposal Area	AL213820742	Redstone Arsenal	AL	A- Army	AMC	
Inactive Chemical Disposal Site H	RSA-050		AL213820742	Redstone Arsenal	AL	A- Army	AMC	
Inactive Disposal Site N	RSA-052		AL213820742	Redstone Arsenal	AL	A- Army	AMC	RI/FS
Former Disposal Site O & Inactive Munitions Demil and Disposal Area	RSA-061/RSA-062	Former Disposal Site P	AL213820742	Redstone Arsenal	AL	A- Army	AMC	RI/FS
Former Chemical Disposal Site M	RSA-063		AL213820742	Redstone Arsenal	AL	A- Army	AMC	RI/FS
Former Mustard Gas Demil Site BB	RSA-064		AL213820742	Redstone Arsenal	AL	A- Army	AMC	RI/FS
Inactive Ash Disposal Site and Demil Area	RSA-066	xRSA-066-R-01	AL213820742	Redstone Arsenal	AL	A- Army	AMC	RI/FS
Inactive Toxic Chemical Disposal Area, Toxic Area Z	RSA-068	RSA-068-R-01	AL213820742	Redstone Arsenal	AL	A- Army	AMC	RI/FS
Inactive Toxic Chem Disposal Area (Toxic Areas Y1 + Z) Munitions	RSA-068-R-01		AL213820742	Redstone Arsenal	AL	A- Army		RI/FS
Former Chemical Storage Area	RSA-110		AL213820742	Redstone Arsenal	AL	A- Army	AMC	RI/FS
Dismantled and Removed Popping Furnace	RSA-132	RSA-132-r-01	AL213820742	Redstone Arsenal	AL	A- Army	AMC	
OU-17 Inactive Munitions Demil & Disposal Area	RSA-51	OU-17 Inactive Munitions Demil & Disposal Area	AL213820742	Redstone Arsenal	AL	A- Army	AMC	RI/FS

Table B-3
CWM Locations on Operational Ranges

Name of Site	Official Site Name	Historical Name(s)	FFIDC	Name of Location	State	Installation Type	MACOM	Regulatory Phase
AREE-3 (Chemical Canyon and all from AEC)	NAAD-002-R-01	NAAD-100	AZ211804010	Camp Navajo	AZ	A- Army	AZ Army NG	RI/FS
Former White Phosphorus Detonation and Burn Area	NAAD-03	Chemical Canyon; Dam; Site ID #s NAAD 3, NADA 7, AREE 3	AZ211804010	Camp Navajo	AZ	A- Army	AZ Army NG	RI/FS
Former CK/CG Demolition Site	NAAD-04	Site ID #s NAAD 4, NADA 4, AREE 4	AZ211804010	Camp Navajo	AZ	A- Army	AZ Army NG	RC
Potential Mustard Round Burial Site	NAAD-E76	Potential Drum Burial Site; Site ID #s NAADE76, NADA 3, AREE 3	AZ211804010	Camp Navajo	AZ	A- Army	AZ Army NG	RC
The West Environmental Test Area	YPG-31		AZ214120991	Yuma Proving Ground	AZ	A- Army	AMC	LTM
Not Specific (Unknown)	YPG-32	Chemical Agent Disposal Area	AZ214120991	Yuma Proving Ground	AZ	A- Army	AMC	LTM
Kahuka Range (Unknown 1)			HI214522239	Schofield Barracks	HI	A- Army	USARPAC	
Coopers Creek Study Area	Coopers Creek Study Area		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	
Carrol Island Study Area	EACI00		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	PA/SI
Carrolls Island	EACI01-D		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RC
Carroll Island	EACI07-B		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	PA/SI
Graces Quarters Study Area 1	EAGQ00		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	LTM
Graces Quarters Study Area 2	EAGQ03-D	Graces Quarters Test Site	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	
I-Field	EAOE23		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
M-Field	EAOE27		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS

Table B-3
CWM Locations on Operational Ranges

Name of Site	Official Site Name	Historical Name(s)	FFIDC	Name of Location	State	Installation Type	MACOM	Regulatory Phase
H-Field	EAOE28		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
Maxwell Point	EAOE29	Maxwell Pt cluster 29 MEC/CWM	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
Canal Creek Study Area	EAOE30	C-Field Munitions burial CLU30	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	PA/SI
H-Field	EAOE31	H-field Tank test Range - CLU 31	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
D-Field	EAOE37	D-Field Chem Agent test grid CLU37	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
G-Field	EAOE41	Tunnel complex CLU41	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
E-Field	EAOE45		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
Lauderick Creek	EAOE49	L-field Old Bush River Dock CLU49	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army		RI/FS
G-Field	EAOE50		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
I-Field	EAOE54		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
Old O-Field	EAOE02	O-Field Source Area OU2	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RD
New O-Field	EAOE04	O-Field GW source area OU4	MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	RI/FS
Westwood Range Area	EAWW00		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	PA/SI
Swaderick Creek Study Area	Swaderick Creek Study Area		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	
Wright Creek Study Area	Wright Creek Study Area		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A- Army	AMC	
HWAD-A6e	HWAAP-A6e	Old Bomb Disposal Area No. 5	NV213822950	Hawthorne Army Depot	NV	A- Army	AMC	
Area 15	Test Range Area 15	Tower Grid Area	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	
Area 17	Test Range Area 17	Tower Grid Area	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	
Area 18	Test Range Area 18	Mortar Range	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	
Range 2	Test Range Area 2	Rising Sun Grid Area	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RI/FS
Range 3	Test Range Area 3	Granite Peak Impact Area; SWMU-24	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	RI/FS

Table B-3
CWM Locations on Operational Ranges

Name of Site	Official Site Name	Historical Name(s)	FFIDC	Name of Location	State	Installation Type	MACOM	Regulatory Phase
Range 4	Test Range Area 4	All Purpose Grid Facility	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	
Area 5	Test Range Area 5	Chemical, Biological, and Radiological Target Area	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	
Area 6	Test range Area 6	Chemical Corps Board Area	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	
Area 8	Test Range Area 8	V-Grid	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	
Area 9	Test Range Area 9	Target X Area	UT214120283	Dugway Proving Ground	UT	A- Army	AMC	
South Triangle	J08UT109501		UT89799F806800	Dugway Proving Ground (FUDS)	UT	A- Army		Site Closeout
USAF - CWM								
Site 442, Known Explosive Ordnance Division Burial Location	OT442		CA957172450400	Edwards Air Force Base	CA	AF-Air Force	AFMC	RI/FS

Table B-4
Locations with Only Anecdotal Evidence of CWM or CAIS

Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
Army						
Alabama Ammunition Army Plant		I04AL0041	Alabama Ammunition Army Plant	AL	A-Army	
Fort Rucker		I04AL0704	Fort Rucker	AL	A-Army	
Huntsville Arsenal		I04ALT905	Redstone Arsenal (Huntsville Arsenal)	AL	A-Army	
Navajo Depot Activity		J09AZT902	Camp Navajo	AZ	A-Army	
Storage	Storage	AZ214120991	Yuma Proving Ground	AZ	A-Army	AMC
Yuma Test Station		J09AZT905	Yuma Test Station	AZ	A-Army	
Camp Roberts		J09CA0030	Camp Roberts	CA	A-Army	NGB
Hamilton AAF		J09CA7062	Hamilton AAF	CA	A-Army	
Oakland Port of Embarkation		J09CAT947	Oakland Port of Embarkation	CA	A-Army	
Pueblo AAB		B08CO0712	Pueblo AAB	CO	A-Army	
South Plant Area		CO213820769	Rocky Mountain Arsenal	CO	A-Army	AMC
Fort McNair		C03DCT904	Fort McNair	DC	A-Army	
Camp Blanding		I04FL0015	Camp Blanding	FL	A-Army	NGB
Lawson Field		I04GA0394	Fort Benning	GA	A-Army	
Hunter Field		I04GA0392	Hunter Field	GA	A-Army	
Chemical War Def. Res.		H09HI0000	Fort Shafter	HI	A-Army	
Kapalma Military Reservation		H09HI0163	Kapalma Military Reservation	HI	A-Army	
Schofield Barracks		H09HIT915	Schofield Barracks	HI	A-Army	
Gowen Field		F10ID0110	Gowen Field	ID	A-Army	NGB
Impact Area		IL214020838	Fort Sheridan	IL	A-Army	FORSCOM-BRAC
Camp Atterbury		G05IN0010	Camp Atterbury	IN	A-Army	NGB
Fort Benjamin Harrison		G05IN0108	Fort Benjamin Harrison	IN	A-Army	
Chemical Activity		G05IN0073	Newport Army Ammunition Plant	IN	A-Army	
VX Production and Fill Site		IN213822272	Newport Chemical Depot	IN	A-Army	AMC
Blue Grass Ordnance Depot		G04KY0023	Blue Grass Ordnance Depot	KY	A-Army	
Chemical Warfare Training Field		KY213720479	Fort Knox	KY	A-Army	TRADOC
Fort Knox		G04KY0056	Fort Knox	KY	A-Army	
Lexington-Blue Grass Army Depot		G04KY003000	Lexington-Blue Grass Army Depot	KY	A-Army	
Golf Course		A06LA0047	Fort Polk	LA	A-Army	FORSCOM
Fort Polk		A06LA0047	Fort Polk	LA	A-Army	
Camp Edwards		D01MA0009	Camp Edwards	MA	A-Army	NGB
Maynard		D01MA0241	Maynard	MA	A-Army	
Watertown Arsenal		D01MA0019	Watertown Arsenal	MA	A-Army	
Aberdeen Proving Ground		C03MD0083	Aberdeen Proving Ground	MD	A-Army	
APG Binary Bulk Storage		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A-Army	AMC
Douglas Road Munitions Disposal Site		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A-Army	AMC

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Table B-4
Locations with Only Anecdotal Evidence of CWM or CAIS

Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
N-Field		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A-Army	AMC
North Field Bunker		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A-Army	AMC
Pilot Plant Complex		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A-Army	AMC
Pilot Plant Compound		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A-Army	AMC
Storage		MD213821355	Aberdeen Proving Ground-Edgewood Area	MD	A-Army	AMC
Fort George G. Meade		C03MD0080	Fort George G. Meade	MD	A-Army	
NIKE (Bat-3) Phoenix Mil Res		C03MD0073	NIKE (Bat-3) Phoenix Mil Res	MD	A-Army	
Twin Cities Army Ammunition Plant	MN0234	E05MN0234	Twin Cities Army Ammunition Plant (MN0234)	MN	A-Army	
Lake City Army Ammunition Plant		B07MOT915	Lake City Army Ammunition Plant	MO	A-Army	
Tyson Valley Powder Farm		B07MO0173	Tyson Valley Powder Farm	MO	A-Army	NGB
Camp MacKall		I04NC078502	Camp MacKall	NC	A-Army	NGB
Camp MacKall		I04NCT901	Camp MacKall	NC	A-Army	NGB
Scott Street Warehouse		x	Fort Bragg	NC	A-Army	FORSCOM
Sunny Point		I04NCT906	Sunny Point	NC	A-Army	
Sunny Point Army Terminal (Spart)	NC0000	I04NC0000	Sunny Point Army Terminal (Spart) (NC0000)	NC	A-Army	
Nebraska Ordnance Plant		B07NE0037	Nebraska Ordnance Plant	NE	A-Army	
Fort Dix		C02NJ0001	Fort Dix	NJ	A-Army	NGB
Fort Monmouth		C02NJ0788	Fort Monmouth	NJ	A-Army	
Storage		NM213820974	Fort Wingate Depot Activity	NM	A-Army	AMC
Wingate Ordnance Depot		NM1901	Wingate Ordnance Depot	NM	A-Army	
Hawthorne Naval Ammunition Depot		NV1091	Hawthorne Naval Ammunition Depot	NV	A-Army	
Brooklyn Army Terminal		C02NYT918	Brooklyn Army Terminal	NY	A-Army	
Fort Drum		C02NY0200	Fort Drum	NY	A-Army	
Fort Slocum		C02NY0616	Fort Slocum	NY	A-Army	
Camp Sherman		G05OH0043	Camp Sherman	OH	A-Army	
West end of NACA Runway		OH213820736	Ravenna Army Ammunition Plant	OH	A-Army	AMC
Ravenna Army Ammunition Plant		G05OH0153	Ravenna Army Ammunition Plant	OH	A-Army	
McAlester Naval Ammunition Depot		K06OK0661	McAlester Naval Ammunition Depot	OK	A-Army	
Fort Buchanan		I02PR0984	Fort Buchanan	Puerto Rico	A-Army	
Fort Jackson		I04SC0011	Fort Jackson	SC	A-Army	
Area 3		TX211620133	Camp Bullis	TX	A-Army	MEDCOM
Area 6		TX211620133	Camp Bullis	TX	A-Army	MEDCOM

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Table B-4
Locations with Only Anecdotal Evidence of CWM or CAIS

Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
Area 7		TX211620133	Camp Bullis	TX	A-Army	MEDCOM
Camp Bullis		K06TX0006	Camp Bullis	TX	A-Army	NGB
Fort Bliss		K06TX0412	Fort Bliss	TX	A-Army	
Fort Hood		TX0020	Fort Hood	TX	A-Army	
Red River Arsenal		K06TX0139	Red River Arsenal	TX	A-Army	
Area 16	Test Range Area 16?	UT214120283	Dugway Proving Ground	UT	A-Army	AMC
Area 19		UT214120283	Dugway Proving Ground	UT	A-Army	AMC
Target Q 2		UT214120283	Dugway Proving Ground	UT	A-Army	AMC
Test Area 2		UT214120283	Dugway Proving Ground	UT	A-Army	AMC
Test Area A		UT214120283	Dugway Proving Ground	UT	A-Army	AMC
Test Area B		UT214120283	Dugway Proving Ground	UT	A-Army	AMC
Unknown 3	DPG-067	UT214120283	Dugway Proving Ground	UT	A-Army	AMC
Unknown-DPG		UT214120283	Dugway Proving Ground	UT	A-Army	AMC
Dugway Proving Ground		J08UTT901	Dugway Proving Ground	UT	A-Army	
Dugway Proving Grounds - Leased Land		J08UTT920	Dugway Proving Grounds - Leased Land	UT	A-Army	
Naval Supply Depot (Tooele)		J08UT0001	Naval Supply Depot (Tooele)	UT	A-Army	
Tooele Army Depot South Area		J08UT1102	Tooele Army Depot South Area	UT	A-Army	
Camp Pickett		C03VAT905	Camp Pickett	VA	A-Army	
Fort Belvoir		C03VA0518	Fort Belvoir	VA	A-Army	
Fort Monroe/Ft Wool Area		C03VA01030	Fort Monroe/Ft Wool Area	VA	A-Army	
Fort Myer (C03VA0536)		C04VA0563	Fort Myer (C03VA0536)	VA	A-Army	
Fort Pickett A Airport		C03VA0220	Fort Pickett A Airport	VA	A-Army	
Woodbridge Research Facility		C03VAT934	Woodbridge Research Facility	VA	A-Army	
Mustard Training Area and Gas ID Site	Camp Bonneville CPBO-007	CPBO-007-R-01	Camp Bonneville	WA	A-Army	
Camp Bonneville (F10ORT902)		F10WA0257	Camp Bonneville (F10ORT902)	WA	A-Army	
Unknown-Lewis	4.2 mortar CG	WA02140205060	Fort Lewis	WA	A-Army	
Fort McCoy, Training Area		E05WI0089	Fort McCoy, Training Area	WI	A-Army	NGB
Vancouver Barracks Staging Area		F10ORT907	Vancouver Barracks Staging Area	OR	Army?	
Vancouver Staging Area		F10WAT926	Vancouver Staging Area	WA	Army?	
USAF						
Davis Monthan Field		J09AZ1023	Davis Monthan Field	AZ	AF- Air Force	
Beale AFB		J09CA013601	Beale AFB	CA	AF- Air Force	
March Field		J09CA0011	March Air Force Base (March Field)	CA	AF- Air Force	
McClellan Field		J09CAT942	McClellan Field	CA	AF- Air Force	

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Table B-4
Locations with Only Anecdotal Evidence of CWM or CAIS

Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
Muroc AAF		J09CA0008	Muroc AAF (Edwards AAF)	CA	AF- Air Force	
U.S. Air Force Academy		B08CO0723	U.S. Air Force Academy	CO	AF- Air Force	
Bolling Field		C03DC0497	Bolling Field	DC	AF- Air Force	
Dover AAF		C03DE0251 / C03DE0546	Dover AAF	DE	AF- Air Force	
Avon Park AAF		I04FL0001	Avon Park AAF	FL	AF- Air Force	
Avon Park AF range		I04FL020301	Avon Park AF range	FL	AF- Air Force	
Eglin Field		I04FL1042	Eglin Field	FL	AF- Air Force	
Eglin Gulf Test Range		I04FL0149	Eglin Gulf Test Range	FL	AF- Air Force	
Macdill Field AFB		I04FL0008	Macdill Field AFB	FL	AF- Air Force	
Tyndall Field		I04FL0748	Tyndall Field	FL	AF- Air Force	
Mountain Home AAF		F10ID0026	Mountain Home AAF	ID	AF- Air Force	
Westover Field		D01MAT918	Westover Field	MA	AF- Air Force	
Minot AFB		B08ND0788	Minot AFB	ND	AF- Air Force	
Minot AFB		B08ND0788	Minot AFB	ND	AF- Air Force	
Kirtland Air Force Base Per N1 N3		K06NM0445	Kirtland Air Force Base Per N1 N3	NM	AF- Air Force	
Kirtland Field		K06NM0446	Kirtland Field	NM	AF- Air Force	
Nellis AFR Area C		J09NV110501	Nellis AFR Area C	NV	AF- Air Force	
Nellis AFR Area E		J09NV110701	Nellis AFR Area E	NV	AF- Air Force	
Nellis small Arms Range		J09NV051001	Nellis Small Arms Range	NV	AF- Air Force	
Ellsworth AFB		B08SD0533	Ellsworth AFB	SD	AF- Air Force	
Hill Field		J08UT0020	Hill Field	UT	AF- Air Force	
Wendover Air Force Aux Field		J08UT100104	Wendover Air Force Aux Field	UT	AF- Air Force	
Wendover Bombing and Gunnery Range		J08UT1099	Wendover Bombing and Gunnery Range	UT	AF- Air Force	
Langley AFB		C03VA1039	Langley AFB	VA	AF- Air Force	
Langley Field		C03VA0006	Langley Field	VA	AF- Air Force	
McChord Field		F10WA0025	McChord Field	WA	AF- Air Force	
McChord Field		F10WA0207	McChord Field	WA	AF- Air Force	
FUDS						
Alaska		F10AKT900	Alaska	AK	F-FUDs	FUDS
Amchitka (F10AKT901)	F10AKT901	F10AK0970	Amchitka (F10AKT901)	AK	F-FUDs	FUDS
Big Delta AFB		F10AK0064	Big Delta AFB	AK	F-FUDs	FUDS
Storage		AK09799F253000	Cape Yakak Radio Station	AK	F-FUDs	
Excursion Inlet Sub-Port		F10AKT903	Excursion Inlet Sub-Port	AK	F-FUDs	FUDS
Glen Base	F10AKT908	F10AK029805	Fort Glenn	AK	F-FUDs	FUDS
Unknown-Greely			Fort Greely	AK	F-FUDs	
Fort Sleigh		F10AK029800	Fort Sleigh	AK	F-FUDs	FUDS
Juneau Sub-Port		F10AK0569	Juneau Sub-Port	AK	F-FUDs	FUDS
Ladd Field		F10AKT910	Ladd Field	AK	F-FUDs	FUDS
Naknek Base		F10AKT911	Naknek Base	AK	F-FUDs	FUDS
Naval Artic Laboratory		F10AKT912	Naval Artic Laboratory	AK	F-FUDs	FUDS

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Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
Shemya		F10AKT913	Shemya	AK	F-FUDs	FUDS
Skagway Port of Embarkation		F10AKT915	Skagway Port of Embarkation	AK	F-FUDs	FUDS
Tin City	Unknown-Tin City		Tin City	AK	F-FUDs	FUDS
Birmingham AAB		I04AL0048	Birmingham AAB	AL	F-FUDs	FUDS
Craig Field		I04AL0050	Craig Field	AL	F-FUDs	FUDS
Gunter Field		I04AL0120	Gunter Field	AL	F-FUDs	FUDS
Maxwell Field		I04AL0668	Maxwell Field	AL	F-FUDs	FUDS
Montgomery Army Airfield		I04AL0053	Montgomery Army Airfield	AL	F-FUDs	FUDS
Muscle Shoals Chlorine Plant		I04AL0055	Muscle Shoals Chlorine Plant	AL	F-FUDs	FUDS
Napier Field		I04AL0056	Napier Field	AL	F-FUDs	FUDS
Tuskegee AAF		I04AL0012	Tuskegee AAF	AL	F-FUDs	FUDS
Area 2		AR69799F60460	Camp Robinson	AR	F-FUDs	
Camp Robinson/Camp Pike		K06AR0029	Camp Robinson/Camp Pike	AR	F-FUDs	FUDS
Area 4			Fort Chaffee (FUDS)	AR	F-FUDs	
Second Army Ammunition Depot		K06AR090801	Second Army Ammunition Depot	AR	F-FUDs	FUDS
Unknown-SWPG		AR69799F60500	Southwestern Proving Ground	AR	F-FUDs	
Southwestern Proving Grounds		K06AR005101	Southwestern Proving Grounds	AR	F-FUDs	FUDS
Camp Horn		J09AZ0281	Camp Horn	AZ	F-FUDs	FUDS
Coolidge AAF		J09AZ030703	Coolidge AAF	AZ	F-FUDs	FUDS
Douglas AAF		J09AZ0345	Douglas AAF	AZ	F-FUDs	FUDS
Laguna Maneuver Area		J09AZ043900	Laguna Maneuver Area	AZ	F-FUDs	FUDS
Marana AAF		J09AZ0475	Marana AAF	AZ	F-FUDs	FUDS
Bomb TAR RGE #6		J09AZ072701	Williamas Field (Bomb TAR RGE #6)	AZ	F-FUDs	FUDS
Yuma Auxiliary Field #1		J09AZ0740	Yuma Auxiliary Field #1	AZ	F-FUDs	FUDS
Yuma Auxiliary Field #3		J09AZ0742	Yuma Auxiliary Field #3	AZ	F-FUDs	FUDS
Yuma Auxiliary Field #4		J09AZ0743	Yuma Auxiliary Field #4	AZ	F-FUDs	FUDS
Yuma Camp Site		J09AZ0744	Yuma Camp Site	AZ	F-FUDs	FUDS
Yuma Test Branch		J09AZ1129	Yuma Test Branch	AZ	F-FUDs	FUDS
Barstow-Daggett AP		J09CA031701	Barstow-Daggett AP	CA	F-FUDs	FUDS
Base General Depot		J09CAT903	Base General Depot	CA	F-FUDs	FUDS
Basic Training Center No. 8, Fresno		J09CA7280	Basic Training Center No. 8, Fresno	CA	F-FUDs	FUDS
Camp Beale		J09CA0766	Beale AFB (Camp Beale)	CA	F-FUDs	FUDS
Benicia Arsenal		J09CA0756	Benicia Arsenal	CA	F-FUDs	FUDS
Blythe Army		J09CA0245	Blythe Army Airfield	CA	F-FUDs	FUDS
Camp Anza		J09CA0267	Camp Anza	CA	F-FUDs	FUDS
Camp Beale		J09CA0136	Camp Beale	CA	F-FUDs	FUDS
Camp Callan		J09CA027203	Camp Callan	CA	F-FUDs	FUDS
Camp Elliot		J09CA006701	Camp Elliot	CA	F-FUDs	FUDS
Camp Essex		J09CA027801	Camp Essex	CA	F-FUDs	FUDS

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Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
Camp Fremont	J09CAT996	J09CA0017	Camp Fremont (J09CAT996)	CA	F-FUDs	FUDS
Camp Haan		J09CA0279	Camp Haan	CA	F-FUDs	FUDS
Camp Ibis		J09CA028301	Camp Ibis	CA	F-FUDs	FUDS
Camp Knight		J09CAT916	Camp Knight	CA	F-FUDs	FUDS
Camp McQuaide		J09CA076900	Camp McQuaide	CA	F-FUDs	FUDS
Camp Pinedale		J09CA0772	Camp Pinedale	CA	F-FUDs	FUDS
Camp San Luis Obispo	J09CA0031	J09CA2031	Camp San Luis Obispo (J09CA0031)	CA	F-FUDs	FUDS
Camp Stoneman		J09CA077300	Camp Stoneman	CA	F-FUDs	FUDS
Camp Tanforan	J09CA0779	J09CA0774	Camp Tanforan (J09CA0779)	CA	F-FUDs	FUDS
Chico AAF		J09CA0783	Chico AAF	CA	F-FUDs	FUDS
Daggett AAF		J09CA0317	Daggett AAF	CA	F-FUDs	FUDS
Day & Night Manufacturing Company San Bernardino Chemical Warfare		J09CAT997	Day & Night Manufacturing Company San Bernardino Chemical Warfare	CA	F-FUDs	FUDS
Desert Training Center		J09CAT900	Desert Training Center	CA	F-FUDs	FUDS
Dow Chemical Company		J09CA7364	Dow Chemical Company	CA	F-FUDs	FUDS
	J09CA0088	J09CA7364	Dow Chemical Company (J09CA0088)	CA	F-FUDs	FUDS
	J09CAT923	J09CA7056	Emeryville Ordnance Depot (J09CAT923)	CA	F-FUDs	FUDS
	J09CAT924	J09CA7059	Fort Baker (East) (J09CAT924)	CA	F-FUDs	FUDS
Fort Cronkhite		J09CAT930	Fort Cronkhite	CA	F-FUDs	FUDS
Lower Reservation		J09CA0150	Fort MacArthur (Lower Reservation)	CA	F-FUDs	FUDS
Upper Reservation		J09CA0151	Fort MacArthur (Upper Reservation)	CA	F-FUDs	FUDS
Fort Mason POE		J09CA0901	Fort Mason POE	CA	F-FUDs	FUDS
Fort McDowell		J09CA0805	Fort McDowell	CA	F-FUDs	FUDS
Fresno		J09CAT929	Fresno	CA	F-FUDs	FUDS
Gardner Field		J09CA0374	Gardner Field	CA	F-FUDs	FUDS
Glendale		J09CAT930	Glendale	CA	F-FUDs	FUDS
Hammer Field		J09CA082300	Hammer Field	CA	F-FUDs	FUDS
Independence Warehouse		J09CAT935	Independence Warehouse	CA	F-FUDs	FUDS
Lemoore AAF		J09CA0850	Lemoore AAF	CA	F-FUDs	FUDS
Long Beach		J09CA0450	Long Beach	CA	F-FUDs	FUDS
Los Alamitos USNAS		J09CA1044	Los Alamitos USNAS	CA	F-FUDs	FUDS
Los Angeles Port of Embarkation		CA0435	Los Angeles Port of Embarkation	CA	F-FUDs	FUDS
Los Angeles Sub-Port of Embarkation		J09CAT941	Los Angeles Sub-Port of Embarkation	CA	F-FUDs	FUDS
Mather Field		J09CA0012	Mather Field	CA	F-FUDs	FUDS
Minter Field		J09CA0486	Minter Field	CA	F-FUDs	FUDS
Unknown-Shasta			Mount Shasta	CA	F-FUDs	

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Table B-4
Locations with Only Anecdotal Evidence of CWM or CAIS

Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
Mount Shasta Gas Dispersion Test		J09CA7275	Mount Shasta Gas Dispersion Test	CA	F-FUDs	FUDS
Muroc Air Force Base		J09CA1106	Muroc Air Force Base	CA	F-FUDs	FUDS
Muroc Lake		J09CAT945	Muroc Lake	CA	F-FUDs	FUDS
Naval Ammunition Depot/ Port of Chicago Nav Mag		J09CA1022	Naval Ammunition Depot/ Port of Chicago Nav Mag	CA	F-FUDs	FUDS
Ontario AAF		J09CA0531	Ontario AAF	CA	F-FUDs	FUDS
Ordinance Base DTC		J09CAT948	Ordinance Base DTC	CA	F-FUDs	FUDS
Palmdale AAF		J09CA0533	Palmdale AAF	CA	F-FUDs	FUDS
Rialto Ammunition Storage Yard		J09CA05720	Rialto Ammunition Storage Yard	CA	F-FUDs	FUDS
Rice Airport		J09CAT961	Rice Airport	CA	F-FUDs	FUDS
Richmond Pier No.1		J09CAT963	Richmond Pier No.1	CA	F-FUDs	FUDS
Salinas AAF		J09CA0925	Salinas AAF	CA	F-FUDs	FUDS
San Bernardino Army Airfield		J09CAT968	San Bernardino Army Airfield	CA	F-FUDs	FUDS
Santa Ana AAB		J09CA0614	Santa Ana AAB	CA	F-FUDs	FUDS
Sharpe Army		J09CA0948	Sharpe Army	CA	F-FUDs	FUDS
Stanford University		J09CATT02	Stanford University	CA	F-FUDs	FUDS
Stockton Field		J09CA0013	Stockton Field	CA	F-FUDs	FUDS
Sunnyvale	J09CAT983	J09CA7055	Sunnyvale (J09CAT983)	CA	F-FUDs	FUDS
Turlock Chemical Corps Plant		J09CA0981	Turlock Chemical Corps Plant	CA	F-FUDs	FUDS
University of California		J09CATT03	University of California	CA	F-FUDs	FUDS
Van Nuys AAF	J09CA0179	J09CA7405	Van Nuys AAF (J09CA0179)	CA	F-FUDs	FUDS
Victorville AAF		J09CA7003	Victorville AAF	CA	F-FUDs	FUDS
Victorville AFB (North American Aviation)		J09CA0014	Victorville AFB (North American Aviation)	CA	F-FUDs	FUDS
Fort Logan		B08CO0695	Fort Logan	CO	F-FUDs	FUDS
LaJunta AAF		B08CO0701	LaJunta AAF	CO	F-FUDs	FUDS
Peterson Field		B08CO0128	Peterson Field	CO	F-FUDs	FUDS
American Synthetic Color Company		D01CTT900	American Synthetic Color Company	CT	F-FUDs	FUDS
Bradley Military Field		D01CT0085	Bradley Military Field	CT	F-FUDs	FUDS
New Britain		D01CTT906	New Britain	CT	F-FUDs	FUDS
New Haven AAF		D01CT009202	New Haven AAF	CT	F-FUDs	FUDS
Plum Island		D01CTT907	Plum Island	CT	F-FUDs	FUDS
Wesleyan University		D01CTT912	Wesleyan University	CT	F-FUDs	FUDS
Yale University/ Athletic Club House		D01CTT911	Yale University/ Athletic Club House	CT	F-FUDs	FUDS
Camp Barry		C03DCT905	Camp Barry	DC	F-FUDs	FUDS
Wilmington International Airport		C03DE0540	Bluethenal Field	DE	F-FUDs	FUDS
Fort Miles Mil Reservation		C03DE0063	Fort Miles Mil Reservation	DE	F-FUDs	FUDS
New Castle AAF		C03DE0547	New Castle AAF	DE	F-FUDs	FUDS

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Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
AAF Base Unit, CrbD-ATC (Miami Beach Service Base)			AAF Base Unit, CrbD-ATC (Miami Beach Service Base)	FL	F-FUDs	FUDS
Brooks Field (Possibly Bushnell Army Airfield)		I04FL0067	Brooks Field (Possibly Bushnell Army Airfield)	FL	F-FUDs	FUDS
Buckingham AAF		I04FL0165	Buckingham AAF	FL	F-FUDs	FUDS
Camp Gordon Johnston		I04FL0110	Camp Gordon Johnston	FL	F-FUDs	FUDS
Dale Mabry Field		I04FL0117	Dale Mabry Field	FL	F-FUDs	FUDS
Gotha Ordnance Depot	FL021100	I04FL0211	Gotha Ordnance Depot (FL021100)	FL	F-FUDs	FUDS
Hendricks Field		I04FL0180	Hendricks Field	FL	F-FUDs	FUDS
Holopaw Bomb Target		I04FL091301	Holopaw Bomb Target	FL	F-FUDs	FUDS
Isco Division of Innis, Speiden & Company		I04FLT921	Isco Division of Innis, Speiden & Company	FL	F-FUDs	FUDS
Kissimmee AAF		I04FL0186	Kissimmee AAF	FL	F-FUDs	FUDS
Leesburg Army Airfield		I04FL0191	Leesburg Army Airfield	FL	F-FUDs	FUDS
Mariana AAF		I04FL0061	Mariana AAF	FL	F-FUDs	FUDS
Marquesas Key CWS		I04FL0192	Marquesas Key CWS	FL	F-FUDs	FUDS
Miami AAF		I04FL016701	Miami AAF	FL	F-FUDs	FUDS
Miami Army Airfield		I04FLT913	Miami Army Airfield	FL	F-FUDs	FUDS
Orlando AAF		I04FL001700	Orlando AAF	FL	F-FUDs	FUDS
Sarasota AAF		I04FL0207	Sarasota AAF	FL	F-FUDs	FUDS
Venice AAF		I04FL0209	Venice AAF	FL	F-FUDs	FUDS
Zephyr Hills City Airport		I04FL0103	Zephyr Hills City Airport	FL	F-FUDs	FUDS
Atlanta Army Service Forces Depot		I04GAT900	Atlanta Army Service Forces Depot	GA	F-FUDs	FUDS
Travis Field		I04GA0587	Chatham Field AAB (Travis Field)	GA	F-FUDs	FUDS
Chickamauga		I04GA0002	Chickamauga	GA	F-FUDs	FUDS
Cochran Field		I04GA0588	Cochran Field	GA	F-FUDs	FUDS
Spence Field		I04GA0579	Spence Field	GA	F-FUDs	FUDS
Turner Field (Albany, GA)		I04GA0397	Turner Field (Albany, GA)	GA	F-FUDs	FUDS
Grand Bay Range AFR			Grand Bay Range AFR	GA?	F-FUDs	FUDS
Aliamanu Storage Facility		H09HIT924	Aliamanu Storage Facility	HI	F-FUDs	FUDS
Fort Kamehameha		H09HI0089	Fort Kamehameha	HI	F-FUDs	FUDS
Fort Ruger		H09HI0090	Fort Ruger	HI	F-FUDs	FUDS
Hawaiian Chemical Warfare Depot		H09HIT928	Hawaiian Chemical Warfare Depot	HI	F-FUDs	FUDS
Kipapa Ammo Storage Site		H09HI0182	Kipapa Ammo Storage Site	HI	F-FUDs	FUDS
Naval Ammunition Depot, Oahu		H09HI0027	Naval Ammunition Depot, Oahu	HI	F-FUDs	FUDS
Des Moines Ordnance Plant		B07IA0111	Des Moines Ordnance Plant	IA	F-FUDs	FUDS
Pocatello AAF		F10ID0027	Pocatello AAF	ID	F-FUDs	FUDS
Saylor Creek AFR		F10ID0130	Saylor Creek AFR	ID	F-FUDs	FUDS

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Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
Burdette Oxygen Company		E05ILT900	Burdette Oxygen Company	IL	F-FUDs	FUDS
Camp Ellis Military Reserve		E05IL0007	Camp Ellis Military Reserve	IL	F-FUDs	FUDS
Camp Grant		E05IL0041	Camp Grant	IL	F-FUDs	FUDS
Camp Grant Rifle Range		E05IL0008	Camp Grant Rifle Range	IL	F-FUDs	FUDS
Chicago Chemical Warfare		E05IL3283	Chicago Chemical Warfare	IL	F-FUDs	FUDS
Chicago Depot	E05ILT904	E05IL3284	Chicago Depot (E05ILT904)	IL	F-FUDs	FUDS
Edwal Laboratory Incorporated		E05ILT919	Edwal Laboratory Incorporated	IL	F-FUDs	FUDS
George Field		E05IL0254	George Field	IL	F-FUDs	FUDS
Illinois Ordnance Plant		E05IL000203	Illinois Ordnance Plant	IL	F-FUDs	FUDS
Northwestern University CWM Site		E05ILT924	Northwestern University CWM Site	IL	F-FUDs	FUDS
University of Chicago CWM Site		E05IL3287	University of Chicago CWM Site	IL	F-FUDs	FUDS
University of Illinois CWM Site		E05IL3288	University of Illinois CWM Site	IL	F-FUDs	FUDS
William C. Fencil Company		E05ILT917	William C. Fencil Company	IL	F-FUDs	FUDS
Baer Field		G05IN0973	Baer Field	IN	F-FUDs	FUDS
Evansville Ordnance Plant		G05IN0106	Evansville Ordnance Plant	IN	F-FUDs	FUDS
Freeman Field		G05IN0005	Freeman Field	IN	F-FUDs	FUDS
Indianapolis Chemical Warfare Depot		G05INT928	Indianapolis Chemical Warfare Depot	IN	F-FUDs	FUDS
Jeffersonville Quartermaster Depot	G05INT927	G05IN0019	Jeffersonville Quartermaster Depot (G05INT927)	IN	F-FUDs	FUDS
Kingsbury Ordnance Plant	G05INT933	G05IN0019	Kingsbury Ordnance Plant (G05INT933)	IN	F-FUDs	FUDS
Naval Ammunition Depot		G05IN0270	Naval Ammunition Depot	IN	F-FUDs	FUDS
Purdue University		G05INT929	Purdue University	IN	F-FUDs	FUDS
Stout Field		IN	Stout Field	IN	F-FUDs	FUDS
Terre Haute Ordnance Depot		G05IN0082	Terre Haute Ordnance Depot	IN	F-FUDs	FUDS
Vigo Plant Chemical Warfare		G05IN0085	Vigo Plant Chemical Warfare	IN	F-FUDs	FUDS
Dodge City AAF		B07KS019300	Dodge City AAF	KS	F-FUDs	FUDS
Fairfax Field		B07KS0197	Fairfax Field	KS	F-FUDs	FUDS
Garden City AAF		B07KS0209	Garden City AAF	KS	F-FUDs	FUDS
Great Bend AAF - GRD GNY R		B07KS0218	Great Bend AAF - GRD GNY R	KS	F-FUDs	FUDS
Herrington AAF		B07KS0223	Herrington AAF	KS	F-FUDs	FUDS
Kansas Ordnance Depot		B07KST903	Kansas Ordnance Depot	KS	F-FUDs	FUDS
Liberal AAF		B07KS0233	Liberal AAF	KS	F-FUDs	FUDS
Parsons Kansas		B07KST904	Parsons Kansas	KS	F-FUDs	FUDS
Schilling (Smoky Hill) AFB		B07KS0256	Schilling (Smoky Hill) AFB	KS	F-FUDs	FUDS
Strother Field		B07KS0277	Strother Field	KS	F-FUDs	FUDS

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Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
Topeka AAF		B07KS0282	Topeka AAF	KS	F-FUDs	FUDS
Bowman Field		G04KY0265	Bowman Field	KY	F-FUDs	FUDS
Camp Breckenridge		G04KY0028	Camp Breckenridge	KY	F-FUDs	FUDS
Fort Thomas		G04KY0057	Fort Thomas	KY	F-FUDs	FUDS
Godman Army Air Field		G04KY0006	Godman Army Air Field	KY	F-FUDs	FUDS
Camp Beauregard		A06LA0005	Camp Beauregard	LA	F-FUDs	FUDS
Bombing and Gunnery Range		LA69799F013400	Camp Claiborne	LA	F-FUDs	FUDS
Camp Claiborne		A06LA0006	Camp Claiborne	LA	F-FUDs	FUDS
Chemical Warehouse		LA69799F013400	Camp Claiborne	LA	F-FUDs	FUDS
Gas Chamber		LA69799F013400	Camp Claiborne	LA	F-FUDs	FUDS
Impact Area		LA69799F013400	Camp Claiborne	LA	F-FUDs	FUDS
Magazine Area		LA69799F013400	Camp Claiborne	LA	F-FUDs	FUDS
Camp Livingston		A06LA0008	Camp Livingston	LA	F-FUDs	FUDS
Camp Plauche		A06LA0050	Camp Plauche	LA	F-FUDs	FUDS
Camp Villere		A06LA0078	Camp Villere	LA	F-FUDs	FUDS
Concord Spur		A06LA0308	Concord Spur	LA	F-FUDs	FUDS
Crowley Depot		A06LAT903	Crowley Depot	LA	F-FUDs	FUDS
De Ridder AAB		A06LA0045	De Ridder AAB	LA	F-FUDs	FUDS
Esler Field		A06LA010200	Esler Field	LA	F-FUDs	FUDS
Harding AAF		A06LA0081	Harding AAF	LA	F-FUDs	FUDS
Lake Charles AAF		A06LA0083	Lake Charles AAF	LA	F-FUDs	FUDS
Lake Charles Depot		A06LAT905	Lake Charles Depot	LA	F-FUDs	FUDS
A06LAT907	A06LAT907	A06LA0328	Louisiana Maneuver Area (A06LAT907)	LA	F-FUDs	FUDS
Mansfield Depot		A06LAT908	Mansfield Depot	LA	F-FUDs	FUDS
New Orleans Port of Embarkation		A06LAT910	New Orleans Port of Embarkation	LA	F-FUDs	FUDS
Selman Field (Monroe Municipal Apt.)		A06LA0403	Selman Field (Monroe Municipal Apt.)	LA	F-FUDs	FUDS
Slidell Rifle Range		A06LAT912	Slidell Rifle Range	LA	F-FUDs	FUDS
Amherst College		D01MAT916	Amherst College	MA	F-FUDs	FUDS
Boston Army Base		D01MA0167	Boston Army Base	MA	F-FUDs	FUDS
Camp Miles Standish		D01MA0183	Camp Miles Standish	MA	F-FUDs	FUDS
Camp Standish Chem Warfare Warehouse		D01MAT903	Camp Standish Chem Warfare Warehouse	MA	F-FUDs	FUDS
Camp Wellfleet		D01MA0033	Camp Wellfleet	MA	F-FUDs	FUDS
Castle Island		D01MA0186	Castle Island	MA	F-FUDs	FUDS
HQS. 1st Service Com 808 Commonwealth Ave		B08MAT921	HQS. 1st Service Com 808 Commonwealth Ave	MA	F-FUDs	FUDS
Lawrence Depot		D01MAT909	Lawrence Depot	MA	F-FUDs	FUDS
Marine Biological Laboratory		D01MAT920	Marine Biological Laboratory	MA	F-FUDs	FUDS
Massachusetts Institute of Technology		D01MAT911	Massachusetts Institute of Technology	MA	F-FUDs	FUDS
Medford		D01MAT914	Medford	MA	F-FUDs	FUDS
Medford CWS Test Site		D01MA052900	Medford CWS Test Site	MA	F-FUDs	FUDS

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Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
National Fireworks Site		D01MA0489	National Fireworks Site	MA	F-FUDs	FUDS
NAV AMM Depot			NAV AMM Depot	MA or CA?	F-FUDs	FUDS
(Curtis Bay) Nat'l Defense Ordnance Dept		C03MD0201	(Curtis Bay) Nat'l Defense Ordnance Dept	MD	F-FUDs	FUDS
Baltimore AAF, Logan		C03MD1033	Baltimore AAF, Logan	MD	F-FUDs	FUDS
Baltimore Cargo Port of Emb.	CO3MDT903	CO3MD1034	Baltimore Cargo Port of Emb. (CO3MDT903)	MD	F-FUDs	FUDS
Fort Sumner		C03MD1046	Fort Sumner	MD	F-FUDs	FUDS
Fort Washington		C03MD102101	Fort Washington	MD	F-FUDs	FUDS
Fort Washington Mil Res		C03MD036303	Fort Washington Mil Res	MD	F-FUDs	FUDS
Morton Thiokol Ammo Plt		C03MD1012	Morton Thiokol Ammo Plt (Triumph Expl., Inc.)	MD	F-FUDs	FUDS
Naval Ordnance Center	C03MD0924	C03MDT922	Naval Ordnance Center (C03MD0924)	MD	F-FUDs	FUDS
Charleston AAF		D01ME0112	Charleston AAF	ME	F-FUDs	FUDS
Fort Preble	D01MET931	D01ME0120	Fort Preble (D01MET931)	ME	F-FUDs	FUDS
Searsport Cargo Port of Embarkation		D01MET930	Searsport Cargo Port of Embarkation	ME	F-FUDs	FUDS
Former Fort Brady		E05MI0037	Camp Lucas (Former Fort Brady)	MI	F-FUDs	FUDS
Fort Custer		E05MI000600	Fort Custer	MI	F-FUDs	FUDS
Fort Custer Rec Area		E05MI001303	Fort Custer Rec Area	MI	F-FUDs	FUDS
Kincheloe Air Force Base		E05MI0025	Kincheloe Air Force Base	MI	F-FUDs	FUDS
Michigan Ordnance Missile Plant		E05MI0127	Michigan Ordnance Missile Plant	MI	F-FUDs	FUDS
Wurtsmith AFB		E05MI0023	Oscoda AAF (Wurtsmith AFB)	MI	F-FUDs	FUDS
Romulus Army Airfield	E05MIT913	E05MI0111	Romulus Army Airfield (E05MIT913)	MI	F-FUDs	FUDS
University of Michigan	E05MIT916	E05MI1171	University of Michigan (E05MIT916)	MI	F-FUDs	FUDS
Duluth International Airport		E05MN0033	Duluth International Airport	MN	F-FUDs	FUDS
Raymond Labs, Incorporated		E05MNT901	Raymond Labs, Incorporated	MN	F-FUDs	FUDS
Jefferson Barracks		B07MO0143	Jefferson Barracks	MO	F-FUDs	FUDS
Kansas City Plant		MOT903	Kansas City Plant	MO	F-FUDs	FUDS
Kansas City Quartermaster Depot		B07MO0004	Kansas City Quartermaster Depot	MO	F-FUDs	FUDS
Malden AAF		B07MO003303	Malden AAF	MO	F-FUDs	FUDS
Rosecrans Field		B07MO0161	Rosecrans Field	MO	F-FUDs	FUDS
Rosecrans Field Rifle Rng		B07MO0253	Rosecrans Field Rifle Rng	MO	F-FUDs	FUDS
Weldon Spring Ordnance Works		B07MO0178	Weldon Spring Ordnance Works	MO	F-FUDs	FUDS

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Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
Camp Van Dorn	Detonation Pits		Camp Van Dorn	MS	F-FUDs	FUDS
Camp Van Dorn		A04MS0024	Camp Van Dorn	MS	F-FUDs	FUDS
Columbus Army Airfield		A04MS0197	Columbus Army Airfield	MS	F-FUDs	FUDS
Columbus PRC Bomb Range No.1		A04MS0155	Columbus PRC Bomb Range No.1	MS	F-FUDs	FUDS
Columbus PRC Bomb Range No.3		A04MS0156	Columbus PRC Bomb Range No.3	MS	F-FUDs	FUDS
Columbus PRC Bomb Range No.4		A04MS0157	Columbus PRC Bomb Range No.4	MS	F-FUDs	FUDS
Columbus Radio Range AX		A04MS0158	Columbus Radio Range AX	MS	F-FUDs	FUDS
Greenville AAF		A04MS0173	Greenville AAF	MS	F-FUDs	FUDS
Greenwood AAF		A04MS0148	Greenwood AAF	MS	F-FUDs	FUDS
Grenada Army Airfield		A04MST904	Grenada Army Airfield	MS	F-FUDs	FUDS
Gulf Ordnance Plant		A04MS0012	Gulf Ordnance Plant	MS	F-FUDs	FUDS
Gulfport AAF		A04MS0124	Gulfport AAF	MS	F-FUDs	FUDS
Jackson AAB			Jackson AAB	MS	F-FUDs	FUDS
Keesler Field		A04MS0245	Keesler Field	MS	F-FUDs	FUDS
Key Field		A04MS0003	Key Field	MS	F-FUDs	FUDS
Meridian		A04MST905	Meridian	MS	F-FUDs	FUDS
Mississippi Ord Plant		A04MS0185	Mississippi Ord Plant	MS	F-FUDs	FUDS
Pachuta Bomb & Gun Range		A04MS0288	Pachuta Bomb & Gun Range	MS	F-FUDs	FUDS
Fort Missoula		B08MT0975	Fort Missoula	MT	F-FUDs	FUDS
Gore Field		B08MT0315	Gore Field	MT	F-FUDs	FUDS
Carolina Maneuver Area		I04NCT912	Carolina Maneuver Area	NC	F-FUDs	FUDS
Rifle Range		I04NC1023	Greensboro AAF	NC	F-FUDs	FUDS
Morris Field		I04NC0597	Morris Field	NC	F-FUDs	FUDS
Alliance AAF		B07NE0036	Alliance AAF	NE	F-FUDs	FUDS
Bruning AAF		B07NE0039	Bruning AAF	NE	F-FUDs	FUDS
Fairmont AAF		B07NE0042	Fairmont AAF	NE	F-FUDs	FUDS
Grand Island AAF		B07NE0046	Grand Island AAF	NE	F-FUDs	FUDS
Kearney AAF		B07NE0057	Kearney AAF	NE	F-FUDs	FUDS
Lincoln AAF		B07NE0072	Lincoln AAF	NE	F-FUDs	FUDS
Waste Water Plant/Landfill		NE79799F041800	Nebraska Ordnance Plant	NE	F-FUDs	FUDS
Scottsbluff AAF		B07NE0065	Scottsbluff AAF	NE	F-FUDs	FUDS
Sioux Ordnance Depot		NE0091	Sioux Ordnance Depot	NE	F-FUDs	FUDS
Brown Company		D01NHT900	Brown Company	NH	F-FUDs	FUDS
Grenier Field		D01NH0005	Grenier Field	NH	F-FUDs	FUDS
Camp Kendrick		NJT900	Camp Kendrick	NJ	F-FUDs	FUDS
Camp Kilmer		C02NJ0775	Camp Kilmer	NJ	F-FUDs	FUDS
DuPont - Gibbstown		C02NJ0992	DuPont - Gibbstown	NJ	F-FUDs	FUDS
Beach		NJ29799F692400	Fort Hancock	NJ	F-FUDs	FUDS
Fort Hancock		C02NJ003200	Fort Hancock	NJ	F-FUDs	FUDS
Millville AAF		C02NJ0792	Millville AAF	NJ	F-FUDs	FUDS
Naval Air Warfare Center, Aircraft Division			Naval Air Warfare Center, Aircraft Division	NJ	F-FUDs	FUDS
New York Port of Embarkation		NJ0006	New York Port of Embarkation	NJ	F-FUDs	FUDS
Port Johnston Terminal		C02NJ0814	Port Johnston Terminal	NJ	F-FUDs	FUDS

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Table B-4
Locations with Only Anecdotal Evidence of CWM or CAIS

Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
Princeton University		C02NJT934	Princeton University	NJ	F-FUDs	FUDS
Rahway Arsenal			Rahway Arsenal	NJ	F-FUDs	FUDS
Camp Luna		K06NM0018	Camp Luna	NM	F-FUDs	FUDS
Hobbs AAF		K06NM0433	Hobbs AAF	NM	F-FUDs	FUDS
Hobbs AAF		NMT908	Hobbs AAF	NM	F-FUDs	FUDS
Hobbs PBR #15		K06NM044101	Hobbs PBR #15	NM	F-FUDs	FUDS
Kirkland Air Force Base Per #S10		K06NM0447	Kirkland Air Force Base Per #S10	NM	F-FUDs	FUDS
Roswell AAF		K06NM0052	Walker AFB	NM	F-FUDs	FUDS
Las Vegas AAF		J09NV0445	Las Vegas AAF	NV	F-FUDs	FUDS
Stead AFB		J09NV0093	Stead AFB	NV	F-FUDs	FUDS
Tonopah AAF		J09NV0969	Tonopah AAF	NV	F-FUDs	FUDS
Unknown Sitename		J09NVT908	Unknown Sitename	NV	F-FUDs	FUDS
Tonopuli Test Range Tonopah Test Range?			Tonopuli Test Range Tonopah Test Range?	NV?	F-FUDs	FUDS
Brooklyn Naval Reserve Center		C02NYT952	Brooklyn Naval Reserve Center	NY	F-FUDs	FUDS
Buffalo Plant		NYT915	Buffalo Plant	NY	F-FUDs	FUDS
Bush Terminal		C02NYT911	Bush Terminal	NY	F-FUDs	FUDS
Camp Hero		C02NY0024	Camp Hero	NY	F-FUDs	FUDS
Camp Shanks		C02NY0596	Camp Shanks	NY	F-FUDs	FUDS
Columbia University		C02NYT942	Columbia University	NY	F-FUDs	FUDS
Evans Chematics, Incorporated		C02NYT943	Evans Chematics, Incorporated	NY	F-FUDs	FUDS
Fort Niagara		C02NY0613	Fort Niagara	NY	F-FUDs	FUDS
Fort Ontario		C02NY0614	Fort Ontario	NY	F-FUDs	FUDS
Fort Terry Army Reservation		C02NY0619	Fort Terry Army Reservation	NY	F-FUDs	FUDS
Fort Tilden		C02NY0016	Fort Tilden	NY	F-FUDs	FUDS
Freeport Naval Reserve Center		C02NYT953	Freeport Naval Reserve Center	NY	F-FUDs	FUDS
Gravesend Bay Ammo Loading Area NY Harbor		C02NYT920	Gravesend Bay Ammo Loading Area NY Harbor	NY	F-FUDs	FUDS
Hastings-On-Hudson Plant		C02NYT902	Hastings-On-Hudson Plant	NY	F-FUDs	FUDS
Long Island City Laboratory		C02NYT916	Long Island City Laboratory	NY	F-FUDs	FUDS
Madison Barracks Target Range		C02NY0204	Madison Barracks Target Range	NY	F-FUDs	FUDS
Mitchell Field	Unknown-Mitchell		Mitchell Field	NY	F-FUDs	FUDS
Mitchell Field		B08SD0858	Mitchell Field	NY	F-FUDs	FUDS
New York Chemical Warfare		NYT903	New York Chemical Warfare	NY	F-FUDs	FUDS
New York Depot		C02NYT922	New York Depot	NY	F-FUDs	FUDS
New York Port of Embarkation		C02NYT910	New York Port of Embarkation	NY	F-FUDs	FUDS
Niagra Smelting Corporation		C02NYT947	Niagra Smelting Corporation	NY	F-FUDs	FUDS
North River Terminal		C02NYT927	North River Terminal	NY	F-FUDs	FUDS
Northeast Ordnance Depot		NYT917	Northeast Ordnance Depot	NY	F-FUDs	FUDS
Oldbury Electro Chemical		C02NYT949	Oldbury Electro Chemical Company	NY	F-FUDs	FUDS
Plattsburg Barracks		C02NY0680	Plattsburg Barracks	NY	F-FUDs	FUDS
Rike Company		C02NYT951	Rike Company	NY	F-FUDs	FUDS

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Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
Sampson AFB		C02NY0032	Sampson AFB	NY	F-FUDs	FUDS
Staten Island		C02NYT924	Staten Island	NY	F-FUDs	FUDS
Suffolk County AFB		C02NY071204	Suffolk County AFB	NY	F-FUDs	FUDS
Syracuse AAB		C02NY0723	Syracuse AAB	NY	F-FUDs	FUDS
Unknown Sitename		C02NYT956	Unknown Sitename	NY	F-FUDs	FUDS
Voorheesville Storage Facility		C02NYT936	Voorheesville Storage Facility	NY	F-FUDs	FUDS
Chemical Warfare Development Division, Nela Park		G05OHT905	Chemical Warfare Development Division, Nela Park	OH	F-FUDs	FUDS
Chemical Warfare Service Plant		G05OHT924	Chemical Warfare Service Plant	OH	F-FUDs	FUDS
Erie Basin Metal Products		OHT923	Erie Basin Metal Products	OH	F-FUDs	FUDS
Erie Ordnance Depot		G05OH0027	Erie Ordnance Depot	OH	F-FUDs	FUDS
Ferro-Enamel Corporation		OHT925	Ferro-Enamel Corporation	OH	F-FUDs	FUDS
Firelands Plant Operated By Ferro Enamel Corp		OHT928	Firelands Plant Operated By Ferro Enamel Corp	OH	F-FUDs	FUDS
Fort Hayes		G05OH0141	Fort Hayes	OH	F-FUDs	FUDS
Goodyear Tire and Rubber Hydrogen Plant		G05OHT921	Goodyear Tire and Rubber Hydrogen Plant	OH	F-FUDs	FUDS
Lempco Products Company		OHT916	Lempco Products Company	OH	F-FUDs	FUDS
Plumbrook Ordnance Works		G05OH0018	Plumbrook Ordnance Works	OH	F-FUDs	FUDS
Portage Depot		G05OHT901	Portage Depot	OH	F-FUDs	FUDS
Rossford Ordnance Depot		G05OH0154	Rossford Ordnance Depot	OH	F-FUDs	FUDS
Altus AAF		K06OK0619	Altus AAF	OK	F-FUDs	FUDS
Ardmore AAF		K06OK0118	Ardmore AAF	OK	F-FUDs	FUDS
Frederick AAF		K06OK012503	Frederick Airport Industrial Park (Frederick AAF)	OK	F-FUDs	FUDS
Will Rogers Field		K06OK0022	Will Rogers Field	OK	F-FUDs	FUDS
Barnes General Hospital		F10ORT900	Barnes General Hospital	OR	F-FUDs	FUDS
Beaver Ammunition Storage Point		F10OR0157	Beaver Ammunition Storage Point	OR	F-FUDs	FUDS
Camp Adair/Adair AF Sta		F10OR002903	Camp Adair/Adair AF Sta	OR	F-FUDs	FUDS
Camp Kilpack		C10ORT904	Camp Kilpack	OR	F-FUDs	FUDS
Old Camp Abbot		F10OR0041	Old Camp Abbot	OR	F-FUDs	FUDS
Oregon (city)		F10ORT905	Oregon (city)	OR	F-FUDs	FUDS
F10ORT906	F10ORT906	F10OR0209	Pendleton Field (F10ORT906)	OR	F-FUDs	FUDS
Portland Army Air Base		F10OR0538	Portland Army Air Base	OR	F-FUDs	FUDS
Portland Coast Guard Station		F10ORT910	Portland Coast Guard Station	OR	F-FUDs	FUDS
Portland Naval Station		F10ORT911	Portland Naval Station	OR	F-FUDs	FUDS
Portland Port of Embarkation		F10ORT912	Portland Port of Embarkation	OR	F-FUDs	FUDS
Seattle Sub-Point of Embarkation		F10ORT908	Seattle Sub-Point of Embarkation	OR	F-FUDs	FUDS

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Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
Abram Cox Stove Company		C03PAT949	Abram Cox Stove Company	PA	F-FUDs	FUDS
Bryn Mawr		C03PAT968	Bryn Mawr	PA	F-FUDs	FUDS
Carnegie Inst. Of Tech		C03PAT969	Carnegie Inst. Of Tech	PA	F-FUDs	FUDS
Chemical Service Laboratories (C03PAT954)		C03PA1030	Chemical Service Laboratories (C03PAT954)	PA	F-FUDs	FUDS
Cooper's Creek Chemical Company		C03PA1031	Cooper's Creek Chemical Company (C03PAT934)	PA	F-FUDs	FUDS
Fort McKinley		C03PAT967	Fort McKinley	PA	F-FUDs	FUDS
Fort Mifflin		C03PA042403	Fort Mifflin	PA	F-FUDs	FUDS
Greater Pittsburg Airport		C03PA1013	Greater Pittsburg Airport	PA	F-FUDs	FUDS
H.K. Porter Company (C03PAT933)		C03PA1025	H.K. Porter Company (C03PAT933)	PA	F-FUDs	FUDS
Hog Island (CO3PAT957) (Ft Mifflin?)		C03PA0424	Hog Island (CO3PAT957) (Ft Mifflin?)	PA	F-FUDs	FUDS
Hydrail Corporation (C03PAT936)		CO3PA1027	Hydrail Corporation (C03PAT936)	PA	F-FUDs	FUDS
Marietta Storage Facility		C03PAT911	Marietta Storage Facility	PA	F-FUDs	FUDS
Olmstead Air Force Base		C03PA0861	Olmstead Air Force Base	PA	F-FUDs	FUDS
Philadelphia Cargo Port		C03PA1081	Philadelphia Cargo Port	PA	F-FUDs	FUDS
Pittsburgh Depot		C03PAT920	Pittsburgh Depot	PA	F-FUDs	FUDS
Reading AAF		C03PA0459	Reading AAF	PA	F-FUDs	FUDS
Rheem Manufacturing Company (C03PAT910)		C03PA0430	Rheem Manufacturing Company (C03PAT910)	PA	F-FUDs	FUDS
Scaife Company (C03PAT932)		C03PA1028	Scaife Company (C03PAT932)	PA	F-FUDs	FUDS
Susquehanna Ordnance Depot		C03PA0048	Susquehanna Ordnance Depot	PA	F-FUDs	FUDS
Culebra Isle Nation Wild Life Refuge		I02PR006802	Culebra Isle Nation Wild Life Refuge	Puerto Rico	F-FUDs	FUDS
Puerto Rico General Depot		I02PR0000	Puerto Rico General Depot	Puerto Rico	F-FUDs	FUDS
Fort Adams		D01RI0034	Fort Adams	RI	F-FUDs	FUDS
Hillsgrove AAB		D01RI0340	Hillsgrove AAB	RI	F-FUDs	FUDS
Camp Croft		I04SC0016	Camp Croft	SC	F-FUDs	FUDS
Charleston		I04SCT909	Charleston	SC	F-FUDs	FUDS
Charleston AAB		I04SC045000	Charleston AAB	SC	F-FUDs	FUDS
Charleston Naval Weapons Station		I04SC0807	Charleston Naval Weapons Station	SC	F-FUDs	FUDS
Charleston Port of Embarkation		I04SCT904	Charleston Port of Embarkation	SC	F-FUDs	FUDS
Charleston Transportation Corp Depot		I04SC0405	Charleston Transportation Corp Depot	SC	F-FUDs	FUDS
Charleston, Off the Coast of SC		I04SCT913	Charleston, Off the Coast of SC	SC	F-FUDs	FUDS
Conestee Airport		I04SCT900	Conestee Airport	SC	F-FUDs	FUDS
Florence AAF		I04SC0095	Florence AAF	SC	F-FUDs	FUDS
North Charleston		I04SCT908	North Charleston	SC	F-FUDs	FUDS

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Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
Stark General Hospital		I04SC0478	Stark General Hospital	SC	F-FUDs	FUDS
Fort Meade Target Range		B08SD085601	Fort Meade	SD	F-FUDs	FUDS
Rapid Cty A to G Gun		B08SD0864	Rapid Cty A to G Gun	SD	F-FUDs	FUDS
Sioux City AAB		B08SD0369	Sioux City AAB	SD	F-FUDs	FUDS
Sioux Falls AAF		B08SD0369	Sioux Falls AAF	SD	F-FUDs	FUDS
Watertown AAF		B08SD087302	Watertown AAF	SD	F-FUDs	FUDS
Watertown Rifle Range		B08SD087501	Watertown Rifle Range	SD	F-FUDs	FUDS
Yankton ATG		B08SD087601	Yankton ATG	SD	F-FUDs	FUDS
Camp Forrest		G04TNT900	Camp Forrest	TN	F-FUDs	FUDS
Camp Tyson		G04TN0186	Camp Tyson	TN	F-FUDs	FUDS
Dyersburg AAF		G04TN0173	Dyersburg AAF	TN	F-FUDs	FUDS
Holston Army Ammunition Plant		G04TN0212	Holston Army Ammunition Plant	TN	F-FUDs	FUDS
Mallory Depot (G03TN0167)		G04TN0167	Mallory Depot (G03TN0167)	TN	F-FUDs	FUDS
Manchester		G04TNT909	Manchester	TN	F-FUDs	FUDS
Maury CWS Plant		G04TN0181	Maury CWS Plant	TN	F-FUDs	FUDS
Millington Ord Works		G04TN016906	Millington Ord Works	TN	F-FUDs	FUDS
Municipal Airport, Memphis		G04TN0222	Municipal Airport, Memphis	TN	F-FUDs	FUDS
Municipal Airport, Nashville		G04TN0194	Municipal Airport, Nashville	TN	F-FUDs	FUDS
Nashville		G04TNT914	Nashville	TN	F-FUDs	FUDS
Smyrna AAF		G04TN0189	Sewart AFB	TN	F-FUDs	FUDS
Tennessee Maneuver Area (G04TNT902)		G04TN0302	Tennessee Maneuver Area (G04TNT902)	TN	F-FUDs	FUDS
Ablene AAF (K06TX0094)		K06TX0096	Ablene AAF (K06TX0094)	TX	F-FUDs	FUDS
Aloe AAF		K06TX0051	Aloe AAF	TX	F-FUDs	FUDS
Amarillo AFB		K06TX0102	Amarillo AFB	TX	F-FUDs	FUDS
Blackland AAF		K06TX0123	Blackland AAF	TX	F-FUDs	FUDS
Bryan AAF		K06TX0316	Bryan AAF	TX	F-FUDs	FUDS
Camp Bowie		K06TX0009	Camp Bowie	TX	F-FUDs	FUDS
Camp Maxey		K06TX0305	Camp Maxey	TX	F-FUDs	FUDS
Camp Stanley		K06TX0008	San Antonio Ord Depot	TX	F-FUDs	FUDS
Camp Swift		K06TX0304	Camp Swift	TX	F-FUDs	FUDS
Camp Wolters		K06TX003411	Camp Wolters	TX	F-FUDs	FUDS
Bomb Range #12		K06TX0283	Childress AAF	TX	F-FUDs	FUDS
Bomb Range #15		K06TX0280	Childress AAF	TX	F-FUDs	FUDS
Bomb Range #18		K06TX0278	Childress AAF	TX	F-FUDs	FUDS
Bomb Range #3		K06TX0286	Childress AAF	TX	F-FUDs	FUDS
Bomb Range #4		K06TX0290	Childress AAF	TX	F-FUDs	FUDS
Bomb Range #5		K06TX0291	Childress AAF	TX	F-FUDs	FUDS
Bomb Range #6		K06TX0288	Childress AAF	TX	F-FUDs	FUDS
Bomb Range #7		K06TX0287	Childress AAF	TX	F-FUDs	FUDS
Bomb Range #8		K06TX0292	Childress AAF	TX	F-FUDs	FUDS
DAAF Auxillary Field #2		K06TX026900	DAAF Auxillary Field #2	TX	F-FUDs	FUDS
Dalhart AAF		K06TX0268	Dalhart AAF	TX	F-FUDs	FUDS
Eagle Pass AAF		K06TX0030	Eagle Pass AAF	TX	F-FUDs	FUDS
Ellington Field		K06TX0057	Ellington Field	TX	F-FUDs	FUDS
Fort Clark		K06TX0011	Fort Clark	TX	F-FUDs	FUDS
Fort Crocket		K06TX0904	Fort Crocket	TX	F-FUDs	FUDS

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Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
Fort D. A. Russell	K06TXT905	K06TX1280	Fort D. A. Russell (K06TXT905)	TX	F-FUDs	FUDS
Fort San Jacinto		K06TX1025	Fort San Jacinto	TX	F-FUDs	FUDS
Fort Travis		K06TX0067	Fort Travis	TX	F-FUDs	FUDS
Fort Worth AAF		K06TX0239	Fort Worth AAF	TX	F-FUDs	FUDS
Foster Field		K06TX0601	Foster Field	TX	F-FUDs	FUDS
Galveston AAF Bombing Range		K06TX1012	Galveston AAF Bombing Range	TX	F-FUDs	FUDS
San Marcos AAF		K06TX0232	Gary (Edward) AFB	TX	F-FUDs	FUDS
Harlingen AAF		K06TX0634	Harlingen AAF	TX	F-FUDs	FUDS
Hondo AAF		K06TX0223	Hondo AAF	TX	F-FUDs	FUDS
Kelly Field		K06TX0003	Kelly Field	TX	F-FUDs	FUDS
Laguna Madre Gunnery Range		K06TX0780	Laguna Madre Gunnery Range	TX	F-FUDs	FUDS
Laredo AAF		K06TX0213	Laredo AAF	TX	F-FUDs	FUDS
Laredo International Airport		K06TX0213	Laredo International Airport	TX	F-FUDs	FUDS
Laughlin Field		K06TX0212	Laughlin Field	TX	F-FUDs	FUDS
Love Field		K06TX0010	Love Field	TX	F-FUDs	FUDS
Lubbock AAF		K06TX0004	Lubbock AAF	TX	F-FUDs	FUDS
Majors Field		K06TX0203	Majors Field	TX	F-FUDs	FUDS
Marfa AAF		K06TX0543	Marfa AAF	TX	F-FUDs	FUDS
Midland AAF		K06TX0199	Midland AAF	TX	F-FUDs	FUDS
Moore Field		K06TX0059	Moore Field	TX	F-FUDs	FUDS
Naval Aux Air Station		K06TX102000	Naval Aux Air Station	TX	F-FUDs	FUDS
Pantex Ordnance Plant		K06TX0157	Pantex Ordnance Plant	TX	F-FUDs	FUDS
Pecos AAF		K06TX0550	Pecos AAF	TX	F-FUDs	FUDS
Perrin Field		K06TX0155	Perrin Field	TX	F-FUDs	FUDS
Target Range No.1		K06TX0144	Pyote AAF	TX	F-FUDs	FUDS
Pyote Army Airfield		K06TX0146	Pyote Army Airfield	TX	F-FUDs	FUDS
Pyote Field		K06TX0147	Pyote Field	TX	F-FUDs	FUDS
Randolph Field		K06TX0005	Randolph Field	TX	F-FUDs	FUDS
Rheem Manufacturing Company		TXT926	Rheem Manufacturing Company	TX	F-FUDs	FUDS
San Angelo AAF		K06TX0135	San Angelo AAF	TX	F-FUDs	FUDS
San Antonio Arsenal		K06TX0021	San Antonio Arsenal	TX	F-FUDs	FUDS
San Antonio Chemical Warfare Depot		K06TXT918	San Antonio Chemical Warfare Depot	TX	F-FUDs	FUDS
San Antonio Depot		K06TXT919	San Antonio Depot	TX	F-FUDs	FUDS
South Plains Army Airfield		K06TX0050	South Plains Army Airfield	TX	F-FUDs	FUDS
Stinson Field		K06TX0128	Stinson Field	TX	F-FUDs	FUDS
Waco AAF (Connally AFB, James Connally AFB)		K06TX0220	Waco AAF (Connally AFB, James Connally AFB)	TX	F-FUDs	FUDS
Webb (Big Spring) AAF		K06TX0027	Webb (Big Spring) AAF	TX	F-FUDs	FUDS
AAF, ORD Camp Kearns		J08UT1109	AAF, ORD Camp Kearns	UT	F-FUDs	FUDS
Bonneville Salt Falts (Utah)		J08UTT900	Bonneville Salt Falts (Utah)	UT	F-FUDs	FUDS
Camp Williams		J08UT0054	Camp Williams	UT	F-FUDs	FUDS
Great Western			Dugway Proving Ground (FUDS)	UT	F-FUDs	FUDS

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Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
Old Ironsides			Dugway Proving Ground (FUDS)	UT	F-FUDs	FUDS
Fort Douglas		J08UT110801	Fort Douglas	UT	F-FUDs	FUDS
Granite Park Installation		J08UTT928	Granite Park Installation	UT	F-FUDs	FUDS
Green River Test Site		J08UTT903	Green River Test Site	UT	F-FUDs	FUDS
Salt Lake City		J08UTT918	Salt Lake City	UT	F-FUDs	FUDS
Utah Army Service Forces Depot		J08UTT905	Utah Army Service Forces Depot	UT	F-FUDs	FUDS
Utah Ordnance Plant		J08UT0989	Utah Ordnance Plant	UT	F-FUDs	FUDS
Western Utah		UT89799F805200	Wendover Bombing and Gunnery Range	UT	F-FUDs	FUDS
Camp Hill		C03VA006900	Camp Hill	VA	F-FUDs	FUDS
Camp Patrick Henry		C03VA0186	Camp Patrick Henry	VA	F-FUDs	FUDS
Camp Wallace		C03VA001501	Camp Wallace	VA	F-FUDs	FUDS
Dover Field		C03VA0198	Dover Field	VA	F-FUDs	FUDS
Elkton (Wolf Run Research Station)		C03VA0167	Elkton (Wolf Run Research Station)	VA	F-FUDs	FUDS
Hampton Roads Port of Embarkation		C03VAT915	Hampton Roads Port of Embarkation	VA	F-FUDs	FUDS
Nansemond Ord Depot		C03VA004502	Nansemond Ord Depot	VA	F-FUDs	FUDS
Naval Mine Depot			Naval Mine Depot	VA	F-FUDs	FUDS
Norfolk AAF		C03VA0127	Norfolk AAF	VA	F-FUDs	FUDS
Oyster Point		C03VA0098	Oyster Point	VA	F-FUDs	FUDS
Richmond		C03VA0310	Richmond	VA	F-FUDs	FUDS
Richmond AAB			Richmond AAB	VA	F-FUDs	FUDS
Bell Aircraft, Ordnance Division		VTT901	Bell Aircraft, Ordnance Division	VT	F-FUDs	FUDS
Ephrata		F10WA0283	Ephrata	WA	F-FUDs	FUDS
Fort Flager MIL RES		F10WA0316	Fort Flager MIL RES	WA	F-FUDs	FUDS
Fort G. Wright		F10WAT906	Fort G. Wright	WA	F-FUDs	FUDS
Fort Lawton		F10WAT907	Fort Lawton	WA	F-FUDs	FUDS
Fort Lawton Staging Area		F10WAT908	Fort Lawton Staging Area	WA	F-FUDs	FUDS
Geiger Field		F10WA0452	Geiger Field	WA	F-FUDs	FUDS
Hanford Warehouse		F10WA0260	Hanford Warehouse	WA	F-FUDs	FUDS
Mukilteo		F10WA0380	Mukilteo	WA	F-FUDs	FUDS
Seattle		F10WAT919	Seattle	WA	F-FUDs	FUDS
Seattle Army Chemical Plant		F10WA0416	Seattle Army Chemical Plant	WA	F-FUDs	FUDS
Seattle Port of Embarkation		F10WA0437	Seattle Port of Embarkation	WA	F-FUDs	FUDS
U.S. Naval Ammunition Depot		WA0000	U.S. Naval Ammunition Depot	WA	F-FUDs	FUDS
U.S. Naval Magazine		F10WA0001	U.S. Naval Magazine	WA	F-FUDs	FUDS
Vancouver Barracks (F10WAT901)		F10WA0470	Vancouver Barracks (F10WAT901)	WA	F-FUDs	FUDS
Walla Walla AAF		F10WA0474	Walla Walla AAF	WA	F-FUDs	FUDS
Bell Machine Company		E05WIT901	Bell Machine Company	WI	F-FUDs	FUDS
Camp Wismer		E05WIT904	Camp Wismer	WI	F-FUDs	FUDS

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Table B-4
Locations with Only Anecdotal Evidence of CWM or CAIS

Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
Eau Claire OP. #1		E05WI0091	Eau Claire OP. #1	WI	F-FUDs	FUDS
Eau Claire OP. #2		E05WI0882	Eau Claire OP. #2	WI	F-FUDs	FUDS
Truax Field		E05WI0048	Truax Field	WI	F-FUDs	FUDS
University of Wisconsin		E05WIT910	University of Wisconsin	WI	F-FUDs	FUDS
Automated Biological Laboratory		G03WVT900	Automated Biological Laboratory	WV	F-FUDs	FUDS
Charleston Chemical		G03WVT901	Charleston Chemical Company	WV	F-FUDs	FUDS
Elkins		G03WVT904	Elkins	WV	F-FUDs	FUDS
Army Service Forces Training Center		B08WYT902	Army Service Forces Training Center	WY	F-FUDs	FUDS
Casper AAF		B08WY042403	Casper AAF	WY	F-FUDs	FUDS
AF FAC S-6		B08WY0656	F.E. Warren Air Force Base	WY	F-FUDs	FUDS
AF Fac Site #5		B08WY0468	F.E. Warren Air Force Base	WY	F-FUDs	FUDS
AX #2		B08WY0438	F.E. Warren Air Force Base	WY	F-FUDs	FUDS
FAC Site #4	FAC Site #4	B08WY0467	F.E. Warren Air Force Base	WY	F-FUDs	FUDS
Fac Site 7 (B08WY0016)		B08WY0657	F.E. Warren Air Force Base	WY	F-FUDs	FUDS
FE Warren Annex #1 Encampment	FE Warren Annex #1 Encampment	B08WY0441	F.E. Warren Air Force Base	WY	F-FUDs	FUDS
Rock Quarry		B08WY0653	F.E. Warren Air Force Base	WY	F-FUDs	FUDS
FE Warren Air Force Base		B08WY0442	FE Warren Air Force Base	WY	F-FUDs	FUDS
Fort F. E. Warren Target Range		B08WY0649	Fort F. E. Warren Target Range	WY	F-FUDs	FUDS
Sheridan NG Target Range		B08WY0661	Sheridan NG Target Range	WY	F-FUDs	FUDS
U.S. Army Chemical Center, CAS		B08WY0922	U.S. Army Chemical Center, CAS	WY	F-FUDs	FUDS
Callyer Chemical Company			Callyer Chemical Company		F-FUDs	FUDS
Merch			Merch		F-FUDs	FUDS
Port of Newark			Port of Newark		F-FUDs	FUDS
USN						
Yuma AAF		J09AZ0739	Yuma AAF	AZ	N-Navy	Marine Corps
Concord Naval Ammunition Depot		J09CA1024	Concord Naval Ammunition Depot	CA	N-Navy	
El Toro Marine Corps Air Station		J09CAT998	El Toro Marine Corps Air Station	CA	N-Navy	Marine Corps
Marine Corps Base (Camp Lejeune)		J09CA7213	Marine Corps Base (Camp Lejeune)	CA	N-Navy	Marine Corps
Naval Weapons Station (Concord)		J09CA1024	Naval Weapons Station (Concord)	CA	N-Navy	
UXO Site 00004 Chemical Warfare Training Area (CWTA)			Pt. Mugu NAWS	CA	N-Navy	

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Table B-4
Locations with Only Anecdotal Evidence of CWM or CAIS

Name of Site	Official Site Name	FFIDC	Name of Location	State	Installation Type	MACOM
Seal Beach Naval Weapons Station		J09CAT979	Seal Beach Naval Weapons Station	CA	N-Navy	
Barbers Point NAS		H09HI0023	Barbers Point NAS	HI	N-Navy	
Hicham Field		H09HI0002	Hicham Field	HI	N-Navy	
Little Creek Naval Amphibious Base		VAT939	Little Creek Naval Amphibious Base	VA	N-Navy	Marine Corps
Quantico Marine Corps Base		C03VAT931	Quantico Marine Corps Base	VA	N-Navy	Marine Corps

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APPENDIX C

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UNCLASSIFIED
Date Updated

Budget Position PB2008

PB28 Funds Budgeted for Recovered Chemical Warfare Material (RCWM) Program
(Current \$ Millions)
Department of (Component)

RCWM Program	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>
ER, Component	0.000	0.000	0.000	0.000	0.000	0.000	0.000
OPR & MAINT Component	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BRAC Component	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CAM-D Army	0.000	0.000	0.000	0.000	----	----	----
Special Account Army	----	----	----	----	0.000	0.000	0.000
DoD Total	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>
Army	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Navy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Air Force	0.000	0.000	0.000	0.000	0.000	0.000	0.000
FUDS	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000

UNCLASSIFIED
Date Updated

Budget Position PB2008

PB28 Site Count for Recovered Chemical Warfare Material (RCWM) Program
Department of (Component)

RCWM Program	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>
ER, Component	XXX						

BRAC							
Component	XXX						

DoD Total	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>
Army	XXX						
Navy	XXX						
Air Force	XXX						
FUDS	XXX						
Total	XXX						