

# APPENDIX R: References

## REFERENCES

This appendix provides reference tools to help readers understand the material in the Defense Environmental Programs Annual Report to Congress for Fiscal Year 2005 and learn more about the programs discussed herein. The reporting requirements section details the statutory requirements fulfilled by this report, as well as the area of the report in which the requirements are fulfilled. Acronyms used throughout the report are defined. Contact information and relevant Web site addresses help readers obtain information beyond the scope of this report. The Reference sections included in this appendix contain information on the Conservation, Restoration, Compliance, and Pollution Prevention programs and are as follows:

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# REFERENCES — Reporting Requirements

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**10 USC §2702 (Note); Public Law 105-85; FY98 National Defense Authorization Act for Fiscal Year 1998**

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**Location in the Defense Environmental Programs Annual Report**

In the annual report required under title 10, United States Code §2706 (a), the Secretary shall include the following information with respect to cooperative agreements entered into under this section:

- (1) The number of such partnerships.
- (2) A description of the nature of the technology involved in each such partnership.
- (3) A list of all partners in such partnerships.

Appendix I: Installation Narrative Summaries

Appendix K: Interagency Agreements, ATSDR, DSMOA, and Cooperative Agreements

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**10 USC §2706(a); SARA §211**

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**Location in the Defense Environmental Programs Annual Report**

(a) Report on Environmental Restoration Activities.

- (1) The Secretary of Defense shall submit to the Congress each year, not later than 45 days after the date on which the President submits to the Congress the budget for a fiscal year, a report on the progress made by the Secretary in carrying out environmental restoration activities at military installations.
- (2) Each such report shall include, with respect to environmental restoration activities for each military installation, the following:
  - (A) A statement of the number of sites at which a hazardous substance has been identified.
  - (B) A statement of the status of the response actions proposed for or initiated at the military installation.
  - (C) A statement of the total cost estimated for such response actions.
  - (D) A statement of the amount of funds obligated by the Secretary for such response actions, and the progress submitted, including an explanation of
    - i) Any cost overruns for such response actions, if the amount of funds obligated for such response actions exceeds the estimated cost for those response actions by the greater of 15 percent of the estimated cost or \$10,000,000; and
    - ii) Any deviation in the schedule (including a milestone schedule specified in and agreement, order, or mandate) for such response action of more than 180 days.
  - (E) A statement of the amount of funds allocated by the Secretary for, and the anticipated progress in implementing, such response actions during the fiscal year in which the report is submitted.
  - (F) A statement of the amount of funds requested for such response action for the five fiscal years following the fiscal year in which the report is submitted, and the anticipated progress in implementing such response actions for the fiscal year for which the budget is submitted.

Defense Environmental Programs Defense Environmental Funding Section

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Appendix E: Restoration Budget Summary

Appendix J: Installation Restoration Program and Military Munitions Response Program Status Tables

Appendix M: Restoration Advisory Board Report

- (E) A statement of the amount of funds allocated by the Secretary for, and the anticipated progress in implementing, such response actions during the fiscal year in which the report is submitted.
- (F) A statement of the amount of funds requested for such response action for the five fiscal years following the fiscal year in which the report is submitted, and the anticipated progress in implementing such response actions for the fiscal year for which the budget is submitted.
- (G) A statement of the total costs incurred for such response actions as of the date of submission of the report.
- (H) A statement of the estimated cost of completing all environmental restoration activities at the military installation.
- (I) A statement of the estimated schedule for completing all environmental restoration activities at the military installation.
- (J) A statement of the activities, if any, including expenditures for administration and technical assistance under section 2705 of this title, of the technical review committee or restoration advisory board established for the installation under such section during the preceding fiscal year.

Appendix M: Restoration Advisory Board Report

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**10 USC §2706 (b) as amended by National Defense Authorization Act for Fiscal Year 2006****Location in the Defense Environmental Programs Annual Report**

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- (b) Report on Environmental Quality Programs and Other Environmental Activities
  - (1) The Secretary of Defense shall submit to Congress each year, not later than 45 days after the date on which the President submits to Congress the budget for a fiscal year, a report on the progress made in carrying out activities under the environmental quality programs of the Department of Defense and the military departments.
  - (2) Each Report shall include the following:
    - (A) A description of the Environmental Quality Program of the Department of Defense, and of each of the military departments, during the period consisting of the four fiscal years preceding the fiscal year in which the report is submitted, the fiscal year in which the report is submitted, and the fiscal year following the fiscal year in which the report was submitted.
    - (B) For each of the major activities under the environmental quality programs:
      - (i) A specification of the amount expended, or proposed to be expended, in each fiscal year of the period covered by the report.

Defense Environmental Programs Conservation Section  
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Appendix C: Environmental Management Funding Summary

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**10 USC §2706 (b) as amended by National Defense Authorization  
Act for Fiscal Year 2006**

**Location in the Defense Environmental Programs Annual Report**

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(ii) An explanation for any significant change in the aggregate amount to be expended in the fiscal year in which the report is submitted, and in the following fiscal year, when compared with the fiscal year preceding each fiscal year.	Appendix C: Environmental Management Funding Summary
(iii) An assessment of the manner in which the scope of the activities have changed over the course of the period covered by the report.	Appendix D: Conservation Budget Summary Appendix F: Compliance Budget Summary Appendix G: Pollution Prevention Budget Summary
(C) A summary of the major achievements of the environmental quality programs and of any major problems with the programs.	Appendix A: Environmental Management Systems Appendix D: Conservation Budget Summary Appendix F: Compliance Budget Summary Appendix G: Pollution Prevention Budget Summary Appendix N: American Indian and Alaska Natives Initiative Appendix Q: Toxic Release Inventory for Calendar Year 2004
(D) A summary of fines and penalties imposed or assessed against the Department of Defense and the military departments under Federal, State, or local environmental laws during the fiscal year in which the report is submitted and the four preceding fiscal years, which summary shall include—  (i) a trend analysis of such fines and penalties for military installations inside and outside the United States; and  (ii) a list of such fines or penalties that exceeded \$1,000,000 and the provisions of law under which such fines or penalties were imposed or assessed.	Appendix O: Fines and Penalties Assessed
(E) A statement of the amounts expended, and anticipated to be expended, during the period covered by the report for any activities overseas relating to the environment, including amounts for activities relating to environmental remediation, compliance, conservation, pollution prevention, and environmental technology.	Appendix C: Environmental Management Funding Summary Appendix D: Conservation Budget Summary Appendix F: Compliance Budget Summary Appendix G: Pollution Prevention Summary

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**16 USC §670a****Location in the Defense Environmental Programs Annual Report**

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## (f) Reviews and Reports

Appendix H: Fiscal Year 2005 Sikes Act Reporting Data

(1) Secretary of Defense: Not later than March 1 of each year, the Secretary of Defense shall review the extent to which integrated natural resources management plans were prepared

Appendix D: Conservation Budget Summary

or were in effect and implemented in accordance with this subchapter in the preceding year, and submit a report on the findings of the review to the committees. Each report

(A) The number of integrated natural resources management plans in effect in the year covered by the report, including the date on which each plan was issued in final form or most recently revised;

(B) The amounts expended on conservation activities conducted pursuant to the plans in each year covered by the report; and

(C) An assessment of the extent to which the plans comply with this subchapter.

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**42 USC §6962; RCRA § 6002****Location in the Defense Environmental Programs Annual Report**

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## (i) Procurement program

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(1) Within one year after the date of publication of applicable guidelines under subsection (e) of this section, each procuring agency shall develop an affirmative procurement program which will assure that items composed of recovered materials will be purchased to the maximum extent practicable and which is

Appendix G: Pollution Prevention Budget Summary

(2) Each affirmative procurement program required under this subsection shall, at a minimum, contain:

(A) a recovered materials preference program;

(B) an agency promotion program to promote the preference program adopted under subparagraph (A);

(C) a program for requiring estimates of the total percentage of recovered material utilized in the performance of a contract; certification of minimum recovered material content actually utilized, where appropriate; and reasonable verification procedures for estimates and certifications; and

(D) Annual review and monitoring of the effectiveness of an agency's affirmative procurement program.

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**42 USC §9620(e)(5); CERCLA §120(e)(5)****Location in the Defense Environmental Programs Annual Report**

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Each department, agency, or instrumentality responsible for compliance with this section shall furnish an annual report to Congress concerning its progress in implementing the requirements of this section. Such reports shall include, but not be limited to, the following:

- (A) A report on the progress in reaching interagency agreements under this section.
- (B) The specific cost estimates and budgetary proposals involved in each interagency agreement.
- (C) A brief summary of the public comments regarding each proposed interagency agreement.
- (D) A description of the instances in which no agreement was reached.
- (E) A report on progress in conducting investigations and studies under paragraph (1).
- (F) A report on progress in conducting remedial actions.
- (G) A report on progress in conducting remedial actions at facilities that are not listed on the National Priorities List.

Appendix K: Interagency Agreements, ATSDR, DSMOA, and Cooperative Agreements

Appendix J: Installation Restoration Program and Military Munitions Response Program Status Tables

With respect to instances in which no agreement was reached within the required time period, the department, agency, or instrumentality filing the report under this paragraph shall include in such report an explanation of the reasons why no agreement was reached. The annual report required by this paragraph shall also contain a detailed description on a state-by-state basis of the status of each facility subject to this section, including a description of the hazard presented by each facility, plans and schedules for initiating and completing response action, enforcement status (where appropriate), and an explanation of any postponements or failure to complete response action. Such report shall also be submitted to the affected states.

Appendix I: Installation Narrative Summaries

Appendix J: Installation Restoration Program and Military Munitions Response Program Status Tables

Appendix K: Interagency Agreements, ATSDR, DSMOA, and Cooperative Agreements

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**42 USC §9621; CERCLA §121(c)****Location in Defense Environmental Programs Annual Report**

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If the President selects a remedial action that results in any hazardous substances, pollutants, or contaminants remaining at the site, the President shall review such remedial action no less often than each 5 years after the initiation of such remedial action to assure that human health and the environment are being protected by the remedial action being implemented.

Appendix I: Installation Narrative Summaries

Appendix J: Installation Restoration Program Military Munitions Response Program Status Tables

In addition, if upon such review it is the judgment of the President that action is appropriate at such site in accordance with section 9604 or 9606 of this title, the President shall take or require such

Sec. 401. Agency and Facility Environmental Management Systems. To attain the goals of section 201 of this order:

Defense Environmental Programs Pollution Prevention Section  
Appendix A: Environmental Management Systems  
Appendix Q: Toxic Release Inventory for Calendar Year 2004

- (a) Within 18 months of the date of this order, each agency shall conduct an agency-level environmental management system self assessment based on the Code of Environmental Management Principles for Federal Agencies developed by the EPA (61 Fed. Reg. 54062) and/or another appropriate environmental management system framework. Each assessment shall include a review of agency environmental leadership goals, objectives, and targets. Where appropriate, the assessments may be conducted at the service, bureau, or other comparable level.
- (b) Within 24 months of the date of this order, each agency shall implement environmental management systems through pilot projects at selected agency facilities based on the Code of Environmental Management Principles for Federal Agencies and/or another appropriate environmental management system framework. By December 31, 2005, each agency shall implement an environmental management system at all appropriate agency facilities based on facility size, complexity, and the environmental aspects of facility operations. The facility environmental management system shall include measurable environmental goals, objectives, and targets that are reviewed and updated annually. Once established, environmental management system performance measures shall be incorporated in agency facility audit protocols.

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Sec. 501. Toxic Release Inventory/Pollution Prevention Act Reporting . To attain the goals of section 203 of this order:

- (a) Each agency shall comply with the provisions set forth in section 313 of EPCRA, section 6607 of PPA, all implementing regulations, and future amendments to these authorities, in light of applicable EPA guidance.
- (b) Each agency shall comply with these provisions without regard to the Standard Industrial Classification (SIC) or North American Industrial Classification System (NAICS) delineations. Except as described in subsection (d) of this section, all other existing statutory or regulatory limitations or exemptions on the application of EPCRA section 313 to specific activities at specific agency facilities apply to the reporting requirements set forth in subsection (a) of this section.

Appendix Q: Toxic Release Inventory for Calendar Year 2004

Each agency required to report under subsection (a) of this section shall do so using electronic reporting as provided in EPA's EPCRA section 313 guidance.

Sec. 505. Reductions in Ozone-Depleting Substances. To attain the goals of section 206 of this order:

Defense Environmental Pollution Prevention Section

- (a) Each agency shall ensure that its facilities:
  - (1) maximize the use of safe alternatives to ozone-depleting substances, as approved by the EPA's Significant New Alternatives Policy (SNAP) program;
  - (2) consistent with subsection (b) of this section, evaluate the present and future uses of ozone-depleting substances, including making assessments of existing and future needs for such materials, and evaluate use of, and plans for recycling, refrigerants, and halons; and
  - (3) exercise leadership, develop exemplary practices, and disseminate information on successful efforts in phasing out ozone-depleting substances.

Appendix P: Ozone-Depleting Substances

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Sec. 505. Reductions in Ozone-Depleting Substances. To attain the goals of section 206 of this order:

Defense Environmental Pollution Prevention Section

- (a) Each agency shall ensure that its facilities:
  - (1) maximize the use of safe alternatives to ozone-depleting substances, as approved by the EPA's Significant New Alternatives Policy (SNAP) program;
  - (2) consistent with subsection (b) of this section, evaluate the present and future uses of ozone-depleting substances, including making assessments of existing and future needs for such materials, and evaluate use of, and plans for recycling, refrigerants, and halons; and
  - (3) exercise leadership, develop exemplary practices, and disseminate information on successful efforts in phasing out ozone-depleting substances.

Appendix P: Ozone-Depleting Substances

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**Executive Order 13101: Greening the Government through Waste Prevention, Recycling, and Federal Acquisition**

**Location in the Defense Environmental Programs Annual Report**

Sec. 501. Specifications, Product Descriptions, and Standards. When developing, reviewing, or revising Federal and military specifications, product descriptions (including commercial item descriptions), and standards, executive agencies shall consider recovered materials and any environmentally preferable purchasing criteria developed by the EPA, and ensure the criteria are complied with in developing or revising standards. Agencies shall report annually to the FEE on their compliance with this section for incorporation into the biennial report to the President referred to in section 302(a)(2) of this order.

Defense Environmental Programs Pollution Prevention Section

Appendix G: Pollution Prevention Budget Summary



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**Public Law 107-64, Section 131; Fiscal Year 2002 Military Construction Act**

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**Location in the Defense Environmental Programs Annual Report**

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- (a) Requests for funds for environmental restoration at BRAC sites in future fiscal years – In the budget justification materials submitted to Congress in support of the Department of Defense budget for any fiscal year after fiscal year 2002, the amount requested for environmental restoration, waste management, and environmental compliance activities in such fiscal year with respect to military installations approved for closure or realignment under the base closure laws shall accurately reflect the anticipated cost of such activities in such fiscal year.

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Defense Environmental Programs Restoration Section

Appendix E: Restoration Budget Summary

Appendix I: Installation Narrative Summaries

Appendix J: Installation Restoration Program and Military Munitions Response Program Status Tables

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**Public Law 102-484; National Defense Authorization Act for Fiscal Year 1993**

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**Location in the Defense Environmental Programs Annual Report**

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**SEC. 326. ELIMINATION OF USE OF CLASS I OZONE-DEPLETING SUBSTANCES IN CERTAIN MILITARY PROCUREMENT CONTRACTS.**

- (a) ELIMINATION OF USE IF CLASS I OZONE-DEPLETING SUBSTANCES — (1) No Department of Defense contract awarded after June 1, 1993, may include a specification or standard that requires the use of a class I ozone-depleting substance or that can be met only through the use of such a substance unless the inclusion of the specification or standard in the contract is approved by the senior acquisition official for the procurement covered by the contract. The senior acquisition official may grant the approval only if the senior acquisition official determines (based upon the certification of an appropriate technical representative of the official) that a suitable substitute for the class I ozone-depleting substance is not currently
- (4) Each official who grants an approval authorized under paragraph (1) or makes a determination under paragraph (2)(B) shall submit to the Secretary of Defense a report on that approval or determination, as the case maybe, as follows:
- (A) Beginning on October 1, 1993, and continuing for 8 calendar quarters thereafter, by submitting a report on the approvals granted or determinations made under such authority during the preceding quarter not later than 30 days after the end of such quarter.
- (B) Beginning in January 1, 1997, and continuing for 4 years thereafter, by submitting a report in the approvals granted or determinations made under such authority during the preceding year not later than 30 days after the end of such year.
- (5) The Secretary shall promptly transmit to the Committees on Armed Services of the Senate and House of Representatives each submitted to the Secretary under paragraph (4). The Secretary shall transmit the report in classified and unclassified forms.

Appendix P: Ozone Depleting Substances

Appendix G: Pollution Prevention Budget Summary

## SEC. 325. DISCHARGES FROM VESSELS OF THE ARMED FORCES.

(Amendments to Uniform National Discharge Standards Development, Section 312 of the Federal Water Pollution Control Act (33 U.S.C. 1322))

Defense Environmental Compliance Section

Appendix F: Compliance Budget Summary

- (d) <<NOTE: 33 USC 1322 note.>> Cooperation in Standards Development —The Administrator of the Environmental Protection Agency and the Secretary of Defense may, by mutual agreement, with or without reimbursement, provide for the use of information, reports, personnel, or other resources of the Environmental Protection Agency or the Department of Defense to carry out section 312(n) of the Federal Water Pollution Control Act (as added by subsection (b)), including the use of the resources-
- (1) to determine:
- (A) the nature and environmental effect of discharges incidental to the normal operation of a vessel of the Armed Forces;
  - (B) the practicability of using marine pollution control devices on vessels of the Armed Forces; and
  - (C) the effect that installation or use of marine pollution control devices on vessels of
    - (i) the Armed Forces would have on the operation or operational capability of the
    - (ii) vessels; and
- (2) To establish performance standards for marine pollution control devices on vessels of the Armed Forces.

## SEC. 2694 Conservation and cultural activities

- (a) ESTABLISHMENT - The Secretary of Defense may establish and carry out a program to conduct and manage in a coordinated manner the conservation and cultural activities described in subsection (b).
- (b) ACTIVITIES -
- (1) A conservation or cultural activity eligible for the program that the Secretary establishes under subsection (a) is any activity-
- (A) that has regional or Department of Defense-wide significance and that involves more than one military department;
  - (B) that is necessary to meet legal requirements or to support military operations;
  - (C) that can be more effectively managed at the Department of Defense level; and
  - (D) for which no executive agency has been designated responsible by the Secretary.

- (2) Such activities include the following:
- (A) The development of ecosystem-wide land management plans.
  - (B) The conduct of wildlife studies to ensure the safety of military operations.
  - (C) The identification and return of Native American human remains and cultural items in the possession or control of the Department of Defense, or discovered on land under the jurisdiction of the Department, to the appropriate Native American tribes.
  - (D) The control of invasive species that may hinder military activities or degrade military training ranges.
  - (E) The establishment of a regional curation system for artifacts found on military installations.

Defense Environmental Conservation Section

Appendix D: Conservation Budget Summary

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**Public Law 107-314; National Defense Authorization Act for Fiscal Year 2003**

**Location in the Defense Environmental Programs Annual Report**

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SEC. 314. PROCUREMENT OF ENVIRONMENTALLY PREFERABLE PROCUREMENT ITEMS.

- (a) TRACKING SYSTEM- The Secretary of Defense shall develop and implement an effective and efficient tracking system to identify the extent to which the Defense Logistics Agency procures environmentally preferable procurement items or procurement items made with recovered material. The system shall provide for the separate tracking, to the maximum extent practicable, of the procurement of each category of procurement items that, as of the date of the enactment of this Act, has been determined to be environmentally preferable or made with recovered material.
- (c) REPORTING REQUIREMENT- Not later than March 1, 2004, and each March 1 thereafter through 2007, the Secretary of Defense shall submit to the Committee on Armed Services of the Senate and the Committee on Armed Services of the House of Representatives a report detailing the results obtained from the tracking system developed under subsection (a).

Defense Environmental Programs Pollution Prevention Section

Appendix G: Pollution Prevention Budget Summary

## REFERENCES — Acronyms

<b>ACSIM</b> Assistant Chief of Staff for Installation Management	<b>CMD</b> Corrective Measures Design
<b>AEC</b> Army Environmental Center	<b>CMI</b> Corrective Measures Implementation
<b>AFB</b> Air Force Base	<b>CMS</b> Corrective Measures Study
<b>AFBCA</b> Air Force Base Conversion Agency	<b>CON/HTRW</b> Containerized Hazardous, Toxic, and Radioactive Waste
<b>AFCEE</b> Air Force Center for Environmental Excellence	<b>CRP</b> Community Relations Plan
<b>AFRPA</b> Air Force Real Property Agency	<b>CS</b> Confirmation Study
<b>AMEC</b> Arctic Military Environmental Cooperation	<b>CTC</b> Cost-to-Complete
<b>ANCSA</b> Alaska Native Claims Settlement Act	<b>CTT</b> Closed, Transferred, or Transferring
<b>AOC</b> Area of Concern	<b>CWA</b> Clean Water Act
<b>APP</b> Affirmative Procurement Program	<b>CWM</b> Chemical Warfare Materiel
<b>APPS</b> Act to Prevent Pollution from Ships	<b>CY</b> Calendar Year
<b>ARAR</b> Applicable or Relevant and Appropriate Requirement	<b>DAS</b> Deputy Assistant Secretary
<b>AREE</b> Area Requiring Environmental Evaluation	<b>DD</b> Decision Document
<b>ARTT</b> Alternative Restoration Technology Team	<b>DDESB</b> Department of Defense Explosives Safety Board
<b>ASA(I&amp;E)</b> Assistant Secretary of the Army for Installation and Environment	<b>DDT</b> Dichlorodiphenyltrichloroethane
<b>AST</b> Aboveground Storage Tank	<b>DERA</b> Defense Environmental Restoration Account
<b>ATSDR</b> Agency for Toxic Substances and Disease Registry	<b>DERP</b> Defense Environmental Restoration Program
<b>BCP</b> BRAC Cleanup Plan	<b>DERTF</b> Defense Environmental Response Task Force
<b>BCT</b> BRAC Cleanup Team	<b>DESC</b> Defense Energy Support Center
<b>BD/DR</b> Building Demolition and Debris Removal	<b>DLA</b> Defense Logistics Agency
<b>BEC</b> BRAC Environmental Coordinator	<b>DNA</b> Defense Nuclear Agency
<b>BES</b> Budget Estimate Submission	<b>DNAPL</b> Dense Nonaqueous Phase Liquid
<b>BRAC</b> Base Realignment and Closure	<b>DNSC</b> Defense National Stockpile Center
<b>BTEX</b> Benzene, Toluene, Ethylbenzene, and Xylene (solvents)	<b>DoD</b> Department of Defense
<b>CAP</b> Corrective Action Plan	<b>DOE</b> Department of Energy
<b>CAR</b> Contamination Assessment Report	<b>DOI</b> Department of the Interior
<b>CERCLA</b> Comprehensive Environmental Response, Compensation, and Liability Act	<b>DOJ</b> Department of Justice
<b>CERFA</b> Community Environmental Response Facilitation Act	<b>DON</b> Department of the Navy
<b>CFC</b> Chlorofluorocarbon	<b>DPG</b> Defense Planning Guidance
<b>CFR</b> Code of Federal Regulations	<b>DRMO</b> Defense Reutilization and Marketing Office

**DSERTS** Defense Site Environmental Restoration Tracking System  
**DSMOA** Defense and State Memorandum of Agreement  
**DTRA** Defense Threat Reduction Agency  
**DUSD(I&E)** Deputy Under Secretary of Defense (Installations & Environment)  
**EBS** Environmental Baseline Survey  
**EDC** Economic Development Conveyance  
**EE/CA** Engineering Evaluation and Cost Analysis  
**EPD/A** Engineering Field Division/Activity  
**EIS** Environmental Impact Statement  
**EMS** Environmental Management System  
**EO** Executive Order  
**EPA** U.S. Environmental Protection Agency  
**EPCRA** Emergency Planning and Community Right-to-Know Act  
**ERA** Ecological Risk Assessment  
**ERP** Environmental Restoration Program  
**ESA** Endangered Species Act  
**ESD** Explanation of Significant Differences  
**ESI** Expanded Site Inspection  
**ESOH** Environment, Safety, and Occupational Health  
**ESTCP** Environmental Security Technology Certification Program  
**ETA** Early Transfer Authority  
**FAA** Federal Aviation Administration  
**FFA** Federal Facility Agreement  
**FFCA** Federal Facilities Compliance Act  
**FFID** Federal Facility Identification number  
**FFS** Focused Feasibility Study  
**FGS** Final Governing Standards  
**FISC** Fleet Industrial Supply Center  
**FOSET** Finding of Suitability for Early Transfer  
**FOSL** Finding of Suitability to Lease  
**FOST** Finding of Suitability to Transfer  
**FR** Federal Register  
**FS** Feasibility Study  
**FUDS** Formerly Used Defense Site

**FWS** U.S. Fish and Wildlife Service  
**FY** Fiscal Year  
**GIS** Geographic Information System  
**GPR** Ground-Penetrating Radar  
**GPRA** Government Performance and Results Act  
**GPS** Global Positioning System  
**GSA** General Services Administration  
**GWTP** Groundwater Treatment Plant  
**HHRA** Human Health Risk Assessment  
**HRS** Hazard Ranking System  
**HSWA** Hazardous and Solid Waste Amendments  
**HTRW** Hazardous, Toxic, and Radioactive Waste  
**IAG** Interagency Agreement  
**IAS** Initial Assessment Study  
**ICRMP** Integrated Cultural Resource Management Plan  
**IMA** Installation Management Agency  
**INPR** Inventory Project Report  
**INRMP** Integrated Natural Resource Management Plan  
**IPR** In-Progress Review  
**IR** Installation Restoration  
**IRA** Interim Remedial Action  
**IRP** Installation Restoration Program  
**ISC** Initial Site Characterization  
**ISEERB** Inter-Service Environmental Education Review Board  
**ISO** International Organization for Standardization  
**ITRC** Interstate Technology Regulatory Council  
**IWTP** Industrial Wastewater Treatment Program  
**LFI** Limited Field Investigations  
**LID** Low Impact Development  
**LNAPL** Light Nonaqueous Phase Liquid  
**LRA** Local Redevelopment Authority  
**LRP** Land Reuse Plan  
**LTM** Long-Term Management  
**LTO** Long-Term Operations

**LUCs** Land Use Controls  
**MC** Munitions Constituents  
**MCAS** Marine Corps Air Station  
**MCB** Marine Corps Base  
**MCL** Maximum Contaminant Level  
**MCLB** Marine Corps Logistics Base  
**MILCON** Military Construction  
**MMRP** Military Munitions Response Program  
**MOA** Memorandum of Agreement  
**MoM** Measure of Merit  
**MOU** Memorandum of Understanding  
**MPCD** Marine Pollution Control Device  
**MSD** Marine Sanitation Device  
**MSWG** Multi-State Working Group  
**NAF** Naval Air Facility  
**NALEMP** Native American Land Environmental Mitigation Program  
**NAS** Naval Air Station  
**NASA** National Aeronautics and Space Administration  
**NAVFAC** Naval Facilities Engineering Command  
**NAWC** Naval Air Warfare Center  
**NAWS** Naval Air Weapons Station  
**NCP** National Oil and Hazardous Substances Pollution Contingency Plan  
**NCS** Naval Communication Station  
**NDAI** No Defense Action Indicated  
**NELP** Navy Environmental Leadership Program  
**NEPA** National Environmental Policy Act  
**NFA** No Further Action  
**NFESC** Naval Facilities Engineering Service Center  
**NFRAP** No Further Remedial Action Planned  
**NHPA** National Historic Preservation Act  
**NOAA** National Oceanic and Atmospheric Administration  
**NPDES** National Pollution Discharge Elimination System  
**NPL** National Priorities List  
**NRC** Nuclear Regulatory Commission

**NSWC** Naval Surface Warfare Center  
**NTCRA** Non-Time-Critical Removal Action  
**NWIRP** Naval Weapons Industrial Reserve Plant  
**O&M** Operation and Maintenance  
**OB/OD** Open Burning/Open Detonation  
**ODS** Ozone-depleting Substance  
**ODUSD(I&E)** Office of the Deputy Under Secretary of Defense (Installations & Environment)  
**OEW** Ordnance and Explosives Waste  
**OP&S** Operating Properly and Successfully  
**OSD** Office of the Secretary of Defense  
**OU** Operable Unit  
**P2A** Pollution Prevention Afloat  
**PA** Preliminary Assessment  
**PAE** Preliminary Assessment of Eligibility (FUDS)  
**PAH** Polyaromatic Hydrocarbons  
**PBC** Performance-based Contracting  
**PBT** Persistent Bioaccumulative Toxic  
**PCB** Polychlorinated Biphenyl  
**PCP** Pentachlorophenol  
**PDBS** Passive Diffusion Bag Sampler  
**PHA** Public Health Assessment  
**POL** Petroleum, Oil, and Lubricants  
**POM** Program Objective Memorandum  
**PPBS** Planning, Programming, and Budgeting System  
**ppm** Parts per Million  
**PRAP** Proposed Remedial Action Plan  
**PRP** Potentially Responsible Party  
**PSE** Preliminary Source Evaluation  
**R&D** Research and Development  
**RA** Remedial Action  
**RAB** Restoration Advisory Board  
**RAC** Risk Assessment Code  
**RA-C** Remedial Action Construction

**RACER** Remedial Action Cost Engineering and Requirements  
**RA-O** Remedial Action Operation  
**RAP** Remedial Action Plan  
**RBCA** Risk-Based Corrective Action  
**RC** Response Complete  
**RCRA** Resource Conservation and Recovery Act  
**RD** Remedial Design  
**RDT&E** Research, Development, Testing, and Evaluation  
**RDX** Cyclonite/Hexahydro-1,3,5-trinitro-1,3,5-triazine (royal demolition explosive)  
**RFA** RCRA Facility Assessment  
**RFI** RCRA Facility Investigation  
**RI** Remedial Investigation  
**RIP** Remedy in Place  
**ROD** Record of Decision  
**RPM** Remedial Project Manager  
**RPO** Remedial Process Optimization  
**RRSE** Relative-Risk Site Evaluation  
**RSE** Removal Site Evaluation  
**SADBU** Small and Disadvantaged Business Utilization  
**SARA** Superfund Amendments and Reauthorization Act of 1986  
**SBA** Small Business Administration  
**SC** Site Closeout  
**SDWA** Safe Drinking Water Act  
**SEBS** Supplemental Environmental Baseline Survey  
**SEP** Supplemental Environmental Project  
**SERDP** Strategic Environmental Research and Development Program  
**SI** Site Inspection  
**SSEBS** Site-Specific Environmental Baseline Survey  
**SSI** Screening Site Inspection  
**SVE** Soil Vapor Extraction  
**SWMU** Solid Waste Management Unit  
**TAG** Technical Assistance Grant  
**TAPP** Technical Assistance for Public Participation  
**TCE** Trichloroethylene

**TCRA** Time-Critical Removal Action  
**TERC** Total Environmental Restoration Contract  
**TNT** Trinitrotoluene  
**TPH** Total Petroleum Hydrocarbons  
**TRC** Technical Review Committee  
**TRI** Toxic Release Inventory  
**TS** Treatability Study  
**TSCA** Toxic Substances Control Act  
**UNDS** Uniform National Discharge Standards  
**USC** United States Code  
**USCG** United States Coast Guard  
**USD(AT&L)** Under Secretary of Defense (Acquisition, Technology & Logistics)  
**USGS** U.S. Geological Survey  
**UST** Underground Storage Tank  
**UXO** Unexploded Ordnance  
**VOC** Volatile Organic Compound  
**VSI** Visual Site Inspection

## REFERENCES — Contacts

For additional general information about the Defense environmental programs and information about specific initiatives, write to:

**Office of the Assistant Deputy Under Secretary of Defense (Environment, Health and Safety)**

3400 Defense Pentagon  
Washington, DC 20301-3400  
<http://www.acq.osd.mil/ie/>

For additional information about the activities of specific DoD Components, write to:

**Department of the Army\***

Office of the Deputy Assistant Secretary of the Army  
(Installations and Environment)  
101 Army Pentagon  
Room 2E577  
Washington, DC 20301-0101  
<https://www.asaie.army.mil/Public/IE/default.html>

**Department of the Navy\*\***

Office of the Deputy Assistant Under Secretary of the Navy  
(Installations and Environment)  
1000 Navy Pentagon  
Washington, DC 20350-1000  
[http://enviro.nfesc.navy.mil/scripts/WebObjects.exe/erbweb.woa#slide\\_show\\_end](http://enviro.nfesc.navy.mil/scripts/WebObjects.exe/erbweb.woa#slide_show_end)

**Department of the Air Force**

Office of the Deputy Assistant Under Secretary of the Air Force  
(Environment, Safety, and Occupational Health)  
1660 Air Force Pentagon  
Washington, DC 20330-1660  
<http://www.af.mil/library/environment/>

**Defense Logistics Agency**

Environmental and Safety Policy Office  
HQ DLA  
8725 John J. Kingman Road  
Suite 2639, Stop 6220  
Fort Belvoir, VA 22060-6220  
<http://www.dla.mil/dss/dss-e/>

**Defense Threat Reduction Agency**

45045 Aviation Drive  
Dulles, VA 20166-7517  
<http://www.dtra.mil>

For information on small business, write to:

**OSD Small and Disadvantaged Business Utilization Office**

3061 Defense Pentagon  
Washington, DC 20301-3061

**Army Small Business Office**

Attn: SADB  
106 Army Pentagon  
Room 2A712  
Washington, DC 20301-0106

**Navy Small and Disadvantaged Business Utilization Office**

2211 Jefferson Davis Highway  
Arlington, VA 22244-5102

**Army Corps of Engineers Small Business Office**

441 G Street, NW  
Washington, DC 20314-1000

**Air Force Small Business Office**

SAF/CB  
1060 Air Force Pentagon  
Washington, DC 20330-1060

\* Includes FUDS program

\*\* Includes Marine Corps



## REFERENCES — Web sites

### PREVIOUS REPORTS

#### **Defense Environmental Programs (DEP) Annual Reports to Congress**

Online copy of the 2004 DEP Annual Reports to Congress.

<https://www.denix.osd.mil/denix/Public/News/OSD/DEP2004/deparc2004.html>

#### **Defense Environmental Restoration Program (DERP) Annual Reports to Congress**

Online copy of the 1994 through 2003 DERP Annual Reports to Congress

<https://www.denix.osd.mil/denix/Public/Library/Cleanup/CleanupOfc/arc/index.html>

#### **Defense Environmental Quality (EQ) Program Annual Reports to Congress**

Online copy of the 1994 through 2003 EQ Annual Reports to Congress.

<https://www.denix.osd.mil/denix/Public/News/news.html>

### DoD ENVIRONMENTAL MANAGEMENT

#### **Office of the Deputy Under Secretary of Defense (Installations and Environment) [ODUSD(I&E)]**

Home page for ODUSD(I&E), providing general information about the office as well as links to other sites.

<http://www.acq.osd.mil/ie/>

#### **Defense Environmental Network and Information Exchange (DENIX)**

Provides the public and DoD personnel in the environmental security and safety & occupational health arena with timely access to environmental legislative, compliance, restoration, cleanup, and DoD guidance information.

<http://www.denix.osd.mil/>

#### **Environmental Management (EM) Office**

Provides information on the ODUSD(IE) EM Office's efforts to address the progress of the DERP, the Department's work with stakeholders, and the policies and guidances that support these efforts.

<https://www.denix.osd.mil/denix/Public/Library/Cleanup/CleanupOfc/index.html>

#### **Environmental Management Systems**

Provides the public and DoD personnel with information regarding environmental management systems.

<https://www.denix.osd.mil/denix/Public/Library/EMS/ems.html>

#### **Environmental Security Technology Certification Program**

Provides general information on projects documents that describe the program.

<http://www.estcp.org>

### CONSERVATION

#### **Conservation**

Provides an overview of DoD's conservation practices and provides access to conservation resources such as relevant laws, publications, and conservation programs.

<https://www.denix.osd.mil/denix/Public/Library/NCR/toc.html>

### RESTORATION

#### **Base Realignment and Closure (BRAC) Home Page**

BRAC information, policy, and guidance documents, points of contact, fact sheets, tools, and other BRAC related publications.

<http://www.defenselink.mil/brac/> or [https://www.denix.osd.mil/denix/Public/Library/Cleanup/CleanupOfc/subject\\_arch/brac.html](https://www.denix.osd.mil/denix/Public/Library/Cleanup/CleanupOfc/subject_arch/brac.html)

#### **National Response Center Hazardous Materials and Oil Spills Hotline**

National Response Center in the event of hazardous material spills, and provides reporting information.

<http://www.nrc.uscg.mil/nrchp.html>

### COMPLIANCE

#### **Compliance**

Provides information on compliance policies and guidelines and compliance performance.

<https://www.denix.osd.mil/denix/Public/Library/Compliance/compliance.html>

## COMPLIANCE

### **Develop On-site Innovative Technologies Committee Report**

Report containing committee findings on cooperative approaches to technical studies.

<http://www.westgov.org/wga/publicat/doitweb>

## POLLUTION PREVENTION

### **Air RISC Hotline**

Information on health, exposure, and risk assessment of toxic air pollutants. 1-919-541-0888

### **Asbestos Abatement Management Ombudsman**

Information on asbestos abatement. 1-800-368-5888

### **Clearinghouse for Inventories and Emissions Factors**

Air pollution emission data for criteria and toxic pollutants from stationary, area, and mobile sources.

<http://www.epa.gov/ttn/chief/>

### **Pollution Prevention**

Includes TRI reports from CY 1994 through present.

<https://www.denix.osd.mil/denix/Public/Library/Pollution/pollution.html#toxics>

## ARMY

### **Office of Director of Environmental Programs—Army**

Includes the Army's environmental mission and policy statement as well as recent Army news and links.

<http://www.hqda.army.mil/acsimweb/homepage.shtml>

### **U.S. Army Environmental Center (USAEC)**

Provides general information on all aspects of the USAEC.

<http://aec.army.mil/usaec/>

### **U.S. Army BRAC Office**

Provides general information on all aspects of the BRAC program, as well as recent news and data.

<http://www.hqda.army.mil/acsimweb/brac/braco.htm>

### **U.S. Army Corps of Engineers (USACE) Environmental Division**

Provides general information on all aspects of the USACE.

<http://hq.environmental.usace.army.mil/>

## NAVY

### **Department of the Navy Environmental Program**

Includes the Navy's environmental mission and policy statement, recent news,

and links to other Navy and environmental sites.

[http://enviro.nfesc.navy.mil/scripts/WebObjects.exe/erbweb.woa#slide\\_show\\_end](http://enviro.nfesc.navy.mil/scripts/WebObjects.exe/erbweb.woa#slide_show_end)

### **Department of the Navy 5-Year Environmental Restoration Plan**

A look at the Navy's plan for identifying and assessing potential areas of environmental contamination from FY96 through FY05.

<http://5yrplan.nfesc.navy.mil/>

### **Navy Environmental Leadership Program**

Provides information on the program and lists other resources, including recent publications.

<http://www.nelp.navy.mil>

### **Naval Facilities Engineering Service Center Environmental Services**

Provides general information about the center, assistance with environmental compliance, and links to relevant documents.

<http://enviro.nfesc.navy.mil/>

## AIR FORCE

### **Air Force Environmental Home Page**

Includes the Air Force's environmental mission and policy statement, as well as recent news.

<http://www.af.mil/library/environment/>

### **Air Force Real Property Agency**

Provides general information about the Air Force BRAC program and BRAC bases.

<http://www.afarpa.hq.af.mil/>

### **Air Force Center for Environmental Excellence (AFCEE)**

Provides general information about AFCEE and its products and services.

<http://www.afcee.brooks.af.mil/>

### **PRO-ACT**

Air Force's environmental information clearinghouse and research service.

<http://www.afcee.brooks.af.mil/pro-act>

## FUDS

### FUDS

A USACE-sponsored site that describes FUDS projects.

<http://hq.environmental.usace.army.mil/programs/fuds/fuds.html>

### FUDS GIS Web Site

FUDS Program public GIS web site.

<http://m1.crrel.usace.army.mil/fuds/>

## DLA

### DLA Environmental and Safety Directorate (DSS-E)

Provides information about the DSS-E and links to DLA and other resources.

<http://www.dla.mil/dss/dss-e/>

### Hazardous Technical Information Services (HTIS)

HTIS is a support function, operated by DLA, that provides consultation services to DoD personnel worldwide.

<http://www.dscr.dla.mil/htis/>

## EPA

### U.S. EPA

U.S. EPA home page containing links to all Regions and resources.

<http://www.epa.gov>

### U.S. EPA Pollution Prevention HomePage

Pollution prevention guidance and documents.

<http://www.epa.gov/opptintr/p2home>

### Wetlands Protection, U.S. EPA, Office of Water

Information on the value and function of wetlands, guidance documents, and information on constructed wetlands.

<http://www.epa.gov/owow/wetlands/>

### Ground Water and Drinking Water, U.S. EPA, Office of Water

Safe Drinking Water Act and amendments and information on policy and regulations regarding public water supply programs.

<http://www.epa.gov/ogwdw>

### Superfund

Information about the Superfund program and sites.

<http://www.epa.gov/superfund/>

### Superfund, TRI, EPCRA, RMP, and Oil Information Center

Information on Superfund, SPCC, EPCRA, Oil Pollution Act, RMP, and pollution prevention.

<http://www.epa.gov/superfund/resources/infocenter/epcra.htm>

## STAKEHOLDER INVOLVEMENT

### RAB Resources

Provides a list of publications and information about RABs, including the RAB Resource Book.

<https://www.denix.osd.mil/denix/Public/Library/Cleanup/CleanupOfc/stakeholder/rab.html>

### Directory of RABs

Lists all active and inactive RABs and points of contact for each RAB.

<https://www.denix.osd.mil/denix/Public/Library/Cleanup/CleanupOfc/stakeholder/rabdirectory.html>

### Technical Assistance for Public Participation

Provides information on DoD's TAPP grants, including a list of publications and information about TAPP.

<https://www.denix.osd.mil/denix/Public/Library/Cleanup/CleanupOfc/stakeholder/tapp.html> or [https://www.denix.osd.mil/denix/Public/Library/Cleanup/CleanupOfc/subject\\_arch/tapp.html](https://www.denix.osd.mil/denix/Public/Library/Cleanup/CleanupOfc/subject_arch/tapp.html)

### Defense and State Memorandum of Agreement (DSMOA)

A guide to the DSMOA program and process.

<http://hq.environmental.usace.army.mil/programs/dsmoa/dsmoa.html>

### American Indian and Alaska Native Incentives

Provides information on DoD's Native American Environmental Tracking System, education, training and technical assistance, and outreach programs.

<https://www.denix.osd.mil/denix/Public/Native/native.html>