



DEPARTMENT OF THE ARMY  
HEADQUARTERS, U. S. ARMY DEPOT SYSTEM COMMAND  
CHAMBERSBURG, PENNSYLVANIA 17201-4170

452 - 35

REPLY TO  
ATTENTION OF

AMSDS-IN-E

12 JAN 1993

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Defense Environmental Restoration Account (DERA) and  
Base Realignment and Closure (BRAC) Meeting

1. This office is currently in the process of organizing a DERA and BRAC meeting for 9-11 Mar 93 at Hagerstown, MD. The general purpose of this meeting is to focus on the IRP projects, the workplan, an installation-by installation review of the DERA and BRAC eligible projects, and other pertinent topics.
2. The following people are an integral part of the DERA and BRAC program and their attendance is necessary to make this meeting a success.

ANAD - Leslie Ware  
BGAD - Todd Williams  
LEAD - Krishna Ganta  
RRAD - Lonnie Wright  
SAAD - Dan Oburn  
SEAD - Randy Battaglia/Jim Miller  
SIAD - Bob Weis  
TOAD - Ross Matione  
TEAD - Larry Fisher  
NADA - CPT John Morrow  
PUDA - Curtis Turner  
SVDA - John Clarke

Also, it is recommended that supervisors attend with the above mentioned individuals.

3. Request a listing of THAMA and COE representatives be provided this headquarters along with the following information by close of business 14 Jan 93.

Name of THAMA and COE representative  
DSN/Commercial Number  
Address  
Datafax number

AMSDS-IN-E

SUBJECT: Defense Environmental Restoration Account (DERA) and  
Base Realignment and Closure (BRAC) Meeting

4. The points of contact for this action are Matthew Lapinsky  
and John Biernacki, DSN 570-8926.

FOR THE COMMANDER:



WALLACE D. GRAM

COL, GS

Deputy Chief of Staff for  
Industrial Risk Management

DISTRIBUTION:

CDR,

ANAD, ATTN: SDSAN-DEL-EM

BGAD, ATTN: SDSBG-RME

LEAD, ATTN: SDSLE-ENV

RRAD, ATTN: SDSRR-WE

SAAD, ATTN: SDSSA-EL-4

~~SEAD, ATTN: SDSSE-HE~~

SIAD, ATTN: SDSSI-ENV

TOAD, ATTN: SDSTO-EM

TEAD, ATTN: SDSTE-IRE

NADA, ATTN: SDSTE-AZXA-AS-F-E

PUDA, ATTN: SDSTE-PU-IE

SVDA, ATTN: SDSLE-VA



DEPARTMENT OF THE ARMY

SENECA ARMY DEPOT ACTIVITY  
ROMULUS, NEW YORK 14541-5001

REPLY TO  
ATTENTION OF

SDSTO-SEI-F (420)

21 July 1993


MEMORANDUM FOR Commander, U.S. Army Depot System Command, ATTN:  
AMSDS-IN-E, Chambersburg, PA 17201-4170

SUBJECT: Required Active Sites Installation Restoration Program  
(IRP) Action Plan

1. Reference memorandum, HQ DESCOM, AMSDS-IN-E, 25 May 1993, SAB.
2. Enclosed is the Installation Restoration Program (IRP) Action Plan for Seneca Army Depot Activity (SEDA).
3. A facsimile transmission of this report was sent prior to our 15 Jul 93 Change of Command at which time Seneca Army Depot (SEAD) converted to Seneca Army Depot Activity (SEDA). Therefore, this report refers to this installation as SEAD not SEDA.
4. POC at Seneca is Mr. Thomas Enroth, DSN 489-5450.

FOR THE COMMANDER:

Encl

  
STEPHEN M. ABSOLOM  
Facilities Engineer

SEAD-AP.KH

22 June 1993

INSTALLATION RESTORATION  
ACTION PLAN FOR  
SENECA ARMY DEPOT

1. INSTALLATION INFORMATION

LOCALE

-- Seneca Army Depot (SEAD) is a 10,600 acre installation, located in Seneca County, New York, in what is known as the Finger Lakes Region of the state. Bounded by Route 96A on the West and 96 on the East, the installation is 14 miles south east of Geneva and 53 miles southwest of Syracuse. Seneca Lake is a few miles to the west and Cayuga Lake to the east.

COMMAND ORGANIZATION

- Major Command: Army Materiel Command
- Subcommand: Depot Systems Command
- Installation: SEAD, DEH (Environmental Branch (SDSSE-HE))

INSTALLATION RESTORATION PROGRAM (IRP) EXECUTING AGENCY

- Investigation Phases: USACE, Huntsville Division
- Remedial Design/Remedial Action Phases: Undetermined

REGULATORY PARTICIPATION

- Federal: U.S. Environmental Protection Agency (USEPA), Region II.
- State: New York State Department of Environmental Conservation (NYSDEC).

REGULATORY STATUS

- NPL, off-post contamination
- Technical Review Committee, July 1992
- Interagency Agreement, April 1993
- RCRA Part B Permit to be granted within weeks

MAJOR CHANGES TO ACTION PLAN FROM PREVIOUS YEAR (FY92)

-- A five-fold increase in requested funding levels for outyear projects

2. INSTALLATION DESCRIPTION

SEAD is an active facility. It is a government-owned/Government-operated facility whose primary mission is to receive, store, maintain, issue, ship, demilitarize and dispose of assigned commodities including ammunition, explosives, propellants and General Services Administration materials.

SEAD was constructed in 1941. The base was later expanded to include the airstrip of the former Sampson Air Force Base which is immediately adjacent to SEAD to the southwest. The depot generally consists of an elongated central area for the storage of ammunition and weaponry in concrete-arch, covered magazines, and operations and administrative area.

The Army performed preliminary assessments of the potential for contamination at the installation in the early 80's. Site investigations were initiated at two sites to further define suspicions raised in the initial assessment stages. These were the Ash Landfill and Open Burning (OB) Ground sites. Based on this information, SEAD was listed on the Federal Facilities National Priorities List in July 1989. An Interagency Agreement (IAG) was negotiated in 1990 between the Army, NYSDEC and EPA II to the satisfaction of the technical elements involved. Formal finalization was completed in May 1993.

### 3. CONTAMINATION ASSESSMENT

#### A. OVERVIEW

##### Incinerator Ash Landfill (SEAD-006 and -008)

The Incinerator Ash Landfill Site is a 30 acre site located in the southwestern portion of the depot. The site includes Solid Waste Management Units (SWMU's) SEAD-3, 6, 8, 14 and 15. The site consists of an abandoned incinerator building and tower, a former cooling pond, an ash landfill and an adjacent non-combustible fill landfill. The landfill area is adjacent to the western boundary of the Depot. Further to the west is farmland with a few residences, Sampson State Park and Seneca Lake. The landfill was used to dispose of the ash resulting from the incineration of solid waste (trash) produced at the Depot. The non-combustible fill landfill, located just southeast of the incinerator building, was used to dispose of materials which could not be incinerated.

Operations were conducted at the incinerator from 1974 to 1979 when the incinerator was destroyed by fire. Following 1979, the incinerator was abandoned and the landfill closed.

Groundwater contamination (TCE and DCE) and soil contamination (TCE, DCE, vinyl chloride and minimally, heavy metals and PAH's) was discovered during the early site investigations.

### Open Burning Grounds (SEAD-023)

The Open Burning (OB) Grounds Site at SEAD is a 30 acre site in the northwest portion of the Depot. Within these 30 acres are nine burning pads where propellants, explosives and pyrotechnics (PEP) were burned.

Open burning on the ground was discontinued in 1987. Currently, burning operations are conducted in an above ground welded steel tray. Open detonation operations are still being conducted, however, in the adjacent Open Detonation (OD) Grounds which is a 60 acre site adjoining the OB Grounds to the northwest.

Soil contamination with heavy metals and explosives has been confirmed at the site. Groundwater contamination is minimal if at all existent.

### Various Solid Waste Management Units

During IAG negotiations, NYSDEC required that in addition to the studies being performed at the Ash Landfill and OB Ground sites, investigations of the potential for contamination at all identified SWMUs would be required. It was agreed that these investigations would follow the CERCLA format for a Preliminary Assessment (PA), which is basically a record search. Following presentation of the PA results, those areas where the potential for contamination exists, to be known as "Areas of Concern" (AOC), would be investigated further by Site Investigation and, if necessary, a full RI/FS. Those areas where the potential for

contamination was nonexistent would not be investigated any further. Based on prior NYSDEC inventories and SEAD's efforts, a total of 72 areas were judged to meet the definition of a SWMU. However, for some of these sites, this judgement has been called into question and is subject to future negotiations with the State and the EPA. The 72 areas (corresponding to 55 DERPMS sites) are listed in Table 1.

#### RCRA Part B Permit

As required by law under the Resource Conservation and Recovery Act of 1976, SEAD is applying for a RCRA Part B Permit to operate three storage facilities and a Deactivation Furnace. The work involves revising an existing permit document and expanding it to meet new NYSDEC requirements promulgated in 1990. The current work is presently being funded by SEAD. Although it is an important part of the overall Action Plan for the Depot, it is not an Installation Restoration project, per se. The permit application is currently undergoing a final regulatory review and should be issued in the very near future.

#### Miscellaneous Projects

Archaeological investigations at various areas on the Installation are being initiated by the New York District. These investigations were mandated by the EPA.



TABLE 1  
Universe of SWMUs at SEAD

<u>SWMU DESIGNATION</u>	<u>RMIS DESIGNATION</u>	<u>SWMU TITLE</u>
SEAD-1	ND	Bldg 307 - Hazardous Waste Container Storage Facility
SEAD-2	ND	Bldg 301 - PCB Transformer Storage
SEAD-3	* SEAD-006	Incinerator Cooling Water Pond
SEAD-4	+ SEAD-004	Munitions Washout Facility Leach Field
SEAD-5	SEAD-005	Sewage Sludge Waste Pile
SEAD-6	* SEAD-006	Abandoned Ash Landfill
SEAD-7	ND	Shale Pit
SEAD-8	* SEAD-008	Non-Combustible Fill Area
SEAD-9	SEAD-009	Old Scrap Wood Site
SEAD-10	SEAD-010	Present Scrap Wood Site
SEAD-11	+ SEAD-011	Old Construction Debris Landfill
SEAD-12	SEAD-012	Radioactive Waste Burial Sites (3)
SEAD-13	+ SEAD-013	IRFNA Disposal Site
SEAD-14	* SEAD-006	Refuse Burning Pits
SEAD-15	* SEAD-006	Abandoned Incinerator Building
SEAD-16	+ SEAD-016	Bld. S-311 - Abandoned Deactivation Furnace
SEAD-17	+ SEAD-017	Bld. 367 - Existing Deactivation Furnace
SEAD-18	SEAD-018	Bld. 709 - Classified Document Incinerator
SEAD-19	SEAD-019	Bld. 801 - Classified Document Incinerator
SEAD-20	SEAD-022	Sewage Treatment Plant No. 4
SEAD-21	SEAD-022	Sewage Treatment Plant No. 715
SEAD-22	SEAD-022	Sewage Treatment Plant No. 314
SEAD-23	* SEAD-023	Open Burning Ground
SEAD-24	+ SEAD-024	Abandoned Powder Burning Pit
SEAD-25	+ SEAD-025	Fire Training and Demonstration Pad
SEAD-26	+ SEAD-026	Fire Training Pit
SEAD-27	SEAD-027	Bld. 360 - Steam Cleaning Waste Tank
SEAD-28	SEAD-028	Bld. 360 - Underground Waste Oil Tanks (2)
SEAD-29	SEAD-029	Bld. 732 - Underground Waste Oil Tank
SEAD-30	SEAD-030	Bld. 118 - Underground Waste Oil Tank
SEAD-31	SEAD-31	Bld. 117 - Underground Waste Oil Tank
SEAD-32	SEAD-32	Bld. 718 - Underground Waste Oil Tanks (2)
SEAD-33	SEAD-33	Bld. 121 - Underground Waste Oil Tank
SEAD-34	SEAD-34	Bld. 319 - Underground Waste Oil Tanks (2)
SEAD-35	SEAD-35	Bld. 718 - Waste Oil-Burning Boilers (3)
SEAD-36	SEAD-36	Bld. 121 - Waste Oil-Burning Boilers (2)
SEAD-37	SEAD-37	Bld. 319 - Waste Oil-Burning Boilers (s)
SEAD-38	SEAD-38	Bld. 2079 - Boiler Blowdown Leach Pit
SEAD-39	SEAD-39	Bld. 121 - Boiler Blowdown Leach Pit

TABLE 1 (CONTINUED)

SEAD-40	SEAD-40	Bld. 319 - Boiler Blowdown Leach Pit
SEAD-41	SEAD-41	Bld. 718 - Boiler Blowdown Leach Pit
SEAD-42	SEAD-42	Preventive Medicine Lab
SEAD-43	SEAD-43	Old Missile Propellant Test Lab (Building 606)
SEAD-44	SEAD-44	Quality Assurance Test Lab
SEAD-45	+ SEAD-45	Demolition Area (Refer to SEAD-23)
SEAD-46	SEAD-46	Small Arms Range
SEAD-47	SEAD-47	Radiation Calibration Source Storage (Buildings 321 and 806)
SEAD-48	SEAD-48	Pitchblend Storage Bunkers
SEAD-49	SEAD-49	Columbite Ore Storage (Bld. 356)
SEAD-50	SEAD-50	Tank Farm
SEAD-51	ND	Herbicide Usage - perimeter of high security area
SEAD-52	SEAD-52	Ammunition Breakdown Area (Blds. 608 and 612)
SEAD-53	ND	Munitions Storage Igloos
SEAD-54	ND	Asbestos Storage Igloos
SEAD-55	ND	Tannin Storage Igloos
SEAD-56	ND	Herbicide and Pesticide Storage
SEAD-57	SEAD-057	Explosive Ordnance Disposal Area
SEAD-58	SEAD-058	Booster Station (Building 2131)
SEAD-59	SEAD-059	Fill Area (West of Building 135)
SEAD-60	SEAD-060	Oil Discharge (Building 609)
SEAD-61	SEAD-061	Underground Waste Oil Tank (Building 718)
SEAD-62	SEAD-062	Nicotine Sulfate Disposal Area (South side of Road, between Buildings 606 and 612)
SEAD-63	SEAD-063	Miscellaneous Components Burial Site
SEAD-64	SEAD-064	Garbage Disposal Areas (Debris Landfill South of Storage Pad)
SEAD-65	SEAD-065	Acid Storage Pad
SEAD-66	SEAD-066	Pesticide Storage Area (Near Buildings 5 and 6)
SEAD-67	SEAD-067	Dump Site (East of Sewage Treatment Plant No. 4)
SEAD-68	SEAD-068	Pest Control Shop (Building S-335)
SEAD-69	SEAD-069	Disposal Area (Building 606)
SEAD-70	SEAD-070	Fill Area Adjacent to Building T-2110
SEAD-71	SEAD-071	Rumored Paint and Solvent Disposal Area
SEAD-72		Building 803 - Mixed Waste Storage Area

Note: The items marked by an asterisk have already been identified as AOC's and RI/FS activities have been initiated at these sites. Those marked with a + have been identified as AOC's and SI activities are being initiated under a separate contract.

TABLE 2  
PREVIOUS STUDIES AT SEAD

GENERAL

1. U.S. Army Toxic and Hazardous Materials Agency (USATHAMA), Initial Installation Assessment of Seneca Army Depot, N.Y. Report no. AMXTH-IR-A-157, 1980.
2. U.S. Army Environmental Hygiene Agency (USAEHA), Final Report, Army Pollution Abatement Program Study No. D-1031-W, Landfill Leachate Study, Seneca Army Depot, 1981.
3. U.S. Army Toxic and Hazardous Materials Agency (USATHAMA), Update of the Initial Installation Assessment of Seneca Army Depot, N.Y. Report no. AMXTH-IR-A-157(U), 1988.
4. "Evaluation of Solid Waste Management Units, Seneca Army Depot", Interim Final Report, Groundwater Contamination Survey No.38-26-0868-88, U.S. Army Environmental Hygiene Agency.

ASH LANDFILL

5. "Remedial Investigations/Feasibility Studies, Seneca Army Depot Burning Pit/Landfill, Site Investigation", Draft Final Report, ICF Technology Inc., March 1989.
6. "Workplan for Remedial Investigation/Feasibility Studies at the Ash Landfill, Seneca Army Depot, Romulus, New York", Environmental Science and Engineering, 1991.
7. "Draft Preliminary Site Characterization Report at the Ash Landfill:", Chas. T. Main, Inc., April 1992.

## OB GROUNDS

8. "Phase IV Evaluation of the Open Burning/Open Detonation Grounds; Investigation of Soil Contamination" U.S. Army Environmental Hygiene Agency, 1984.
9. "Criteria Development Report for Closure of Nine Burning Pads, Seneca Army Depot", Metcalf and Eddy, 1989.
10. "Work Plan for Performing A Remedial Investigation/Feasibility Study (RI/FS) At The Open Burning (OB) Grounds, Seneca Army Depot, Romulus, New York", Chas. T. Main, Inc., 1991.
11. "Preliminary Site Characterization Report at the Open Burning (OB) Grounds," Chas. T. Main, Inc., 1992.

## SWMU INVESTIGATIONS

12. "Solid Waste Management Unit Classification Report, Seneca Army Depot", ERC Environmental and Energy Services Co., 1991.
13. "Work Plan for CERCLA ESI of Ten Solid Waste Management Units at Seneca Army Depot", Parsons Main, Inc., 1993
14. "Work Plan for CERCLA ESI of Fifteen Solid Waste Management Units at Seneca Army Depot", Engineering-Science, Inc., 1993

B. RESTORATION MANAGEMENT INFORMATION SYSTEM SITE  
CONTAMINATION SUMMARY

Ash Landfill (SEAD-006 and -008)

Contaminants of Concern: TCE, DCE, vinyl chloride  
and heavy metals

Media of Concern: Groundwater and soil

Completed IRP Phase to Date: PA/SI, RI (Phase I)

Current IRP Phase : RI (Phase II) (1383# SE0092F003

Future IRP Phase : RD (1383# SE0092007)

RA (1383# SE0092007)

Long Term Monitoring: 1383# SE093MAR04

Open Burning Grounds Site (SEAD-023)

Contaminants of Concern: heavy metals and explosives

Media of Concern: Soil

Completed IRP Phase to Date: PA/SI, RI (Phase I)

Current IRP Phase : RI (Phase II) (1383# SE0092F011)

Future IRP Phase : RD (1383# SE0092F027)

RA (1383# SE0092F027)

Long-Term Monitoring: 1383# SE093MAR04

Solid Waste Management Units (Various)

High Priority (Ten Units) See Table 3

Contaminants of Concern: various

Media of Concern: Groundwater, soil, surface water

Completed IRP Phase to Date: PA

Current IRP Phase: SI

Future IRP Phase: RI/FS (if necessary)

Medium Priority (Fifteen Units) See Table 4

Contaminants of Concern: various

Media of Concern: Groundwater, soil, surface water

Completed IRP Phase to Date: PA

Current IRP Phase: SI

Future IRP Phase: RI/FS (if necessary)

TABLE 3  
"HIGH PRIORITY" AOC'S

Munitions Washout Leachfield (SEAD 004)

RI/FS/S&A SE093 Mar 02

RD/RA/S&A SE093 Mar 88

Fire Training Areas (SEAD 025 and SEAD 026)

RI/FS/S&A SE093 Mar 87

AD/RA/S&A SE093 Mar 01

IRA SE093 Mar 05

Explosive Ordnance Disposal Areas (SEAD 045 and SEAD 057)

RI/FS/S&A SE093 Mar 07

RD/RA/S&A SE093 Mar 86

IRFNA Disposal Site (SEAD 013)

RI/FS/S&A SE093 Mar 11

RD/RA/S&A SE093 Mar 15

Abandoned Powder Burning Pit (SEAD 024)

RI/FS/S&A SE093 Mar 12

RD/RA/S&A SE093 Mar 16

Old Construction Debris Landfill (SEAD 011)

RI/FS/S&A SE093 Mar 06

RD/RA/S&A SE093 Mar 08

Deactivation Furnaces, old & new (SEAD 016 and SEAD 017)

RI/FS/S&A SE0092F025

RD/RA/S&A SE0092F024

Note: For "contaminants of concern", use groundwater, soil and surface water for all AOC's (medium & high priority AOC's) and for completed IRA phase to date, use PA for all sites

TABLE 4  
MEDIUM PRIORITY AOC'S

Misc Components/Rad Waste Burial Site (SEAD 063 and SEAD 012)

RI/FS/S&A	SE093 Mar 14
RD/RA/NA	SE093 Mar 18
Misc. Comp. IRA	SE093 Mar 99

Bldg 606 Area (SEAD 069, SEAD 043, SEAD 056)

RI/FS/S&A	SE093 Mar 19
RD/RA/S&A	SE093 Mar 24

QA Test Lab (SEAD 044)

RI/FS/S&A	SE093 Mar 20
RD/RA/S&A	SE093 Mar 25

Tank Farm/Asbestos Storage (SEAD 050 and SEAD 054)

RI/FS/S&A	SE093 Mar 21
RD/RA/S&A	SE093 Mar 26

Fill Area Near Bld 135 (SEAD 059 and SEAD 071)

RI/FS/S&A	SE093 Mar 22
RD/RA/S&A	SE093 Mar 27

Booster Station Debris Area (SEAD 058)

RI/FS/S&A	SE093 Mar 23
RD/RA/S&A	SE093 Mar 28

Nicotine Disposal Area (SEAD 062)

RI/FS/S&A	SE093 Mar 29
RD/RA/S&A	SE093 Mar 60

Garbage Disposal Area (SEAD 064)

RI/FS/S&A	SE093 Mar 30
RD/RA/S&A	SE093 Mar 61

TABLE 4  
MEDIUM PRIORITY AOC'S (CONTINUED)

Bldg 4 Area Dump Site (SEAD 067)  
RS/FS/S&A SE093 Mar 31  
RD/RA/S&A SE093 Mar 62

Bldg T 2110 Fill Area (SEAD 070)  
RI/FS/S&A SE093 Mar 32  
RD/RA/S&A SE093 Mar 63

Old Scrap Wood Site (SEAD 009)  
RI/FS/S&A SE093 Mar 13  
RD/RA/S&A SE093 Mar 17

Nicotine Sulfate Disposal Site (SEAD 062)  
RI/FS/S&A SE093 Mar 29  
RD/RA/S&A SE093 Mar 60

Sewage Sludge Pile (SEAD 005)  
IRA SE093 Mar 69

Note: For "contaminants of concern", use groundwater, soil and surface water for all AOC's (medium & high priority AOC's) and for completed IRA phase to date, use PA for all sites.



## 4. SCHEDULE

## Schedule of Future Milestones

Ash Landfill and OB Grounds Sites

The Preliminary Site Characterization Summary Reports for both sites have undergone regulatory review. Regulatory review comments, upon which Phase II field investigations are being based, were received in July 1992. Award of the required Phase II work is complete. Field work has begun and completion is expected by June 1993. The RI reports, risk assessments and Feasibility Studies will follow with completion expected by May 1994. Records of Decision for both sites are conceivable by late CY 1994, but that will depend on our receiving cooperation from the regulators and expeditious reviews.

Ash Landfill (Phase II) OB Grounds (Phase II)

Field Work Completion	Jun 1993		19 Feb 1993
Lab Data Analysis Completion	13 Aug 1993		4 Jun 1993
Baseline Risk Assessment	10 Sep 1993		2 Jul 1993
RI Report Preparation			
-Draft Submission	26 Nov 1993	*	15 Oct 1993
-Draft Final Submission	11 Feb 1994	*	7 Jan 1994
-Final (No disputes)	14 Mar 1994		9 Feb 1994
Feasibility Study	22 Dec 1993		15 Oct 1993
FS Report Preparation			
-Draft Submission	21 Jan 1994	*	19 Nov 1993
-Draft Final Submission	8 Apr 1994	*	28 Jan 1994
-Final (No Disputes)	9 May 1994		5 Mar 1994
PRAP Preparation			
-Draft Submission	8 Apr 1994	*	28 Jan 1994
-Draft Final Submission	24 Jun 1994	*	15 Apr 1994
-Public Review Ends	16 Sep 1994		30 Jul 1994
ROD Preparation			
-Draft Submission	4 Nov 1994	*	26 Sep 1994
-Draft Final	21 Jan 1995	*	16 Dec 1994
-Public Review Ends	15 Apr 1995		3 Mar 1995
-Final Submission	31 May 1995	*	20 Apr 1995

Solid Waste Management Units

The Work Plan for Site Investigations at the initial ten SWMU's was submitted for regulatory review in July of 1992. That review is almost complete. Field work is expected to begin in June 1993, with completion and report preparation in early CY 94. Concerning any RI's that might develop, it is difficult to pin-point a specific time-frame. A simple projection might have RI's (field work to ROD's) occurring from mid 1994 to mid 1995.

Considering that the second set of fifteen SWMU's lags the initial eleven by a few months, it is conceivable that SI's could begin in early FY 94 with any RI's that develop being completed in late 1995. All work on the remaining SWMU's will depend on negotiations with the regulators regarding what additional work will be required, if any. Funding availability will naturally be critical in accomplishing this work according to the schedule proposed.

The schedule for all work proposed, as presently envisioned, is given in Attachment 2. It should be noted that this schedule is based on the assumption that Huntsville Division is performing the required work. No attempts can be made to project a schedule based on another districts resources following decentralization

## SWMU CLASSIFICATION STUDY UPDATE

Limited Sampling Initiated	1 Sep 93
Limited Sampling Completed	21 Sep 93
Data Analysis Complete	1 Nov 93
SWMU Study Revisions	
Draft-Final Submission	* 15 Jan 94
Final Submission (No Disputes)	15 Feb 94

## SWMU SITE INVESTIGATIONS

SEAD High Priority    SEAD Medium Priority

Work Plan Preparation		
Draft Submission	-	15 Apr 93
Draft-Final Submission	15 Apr 93	* 1 Jul 93
Final Submission (No Disputes)	15 May 93	1 Aug 93
Field Work Initiated	1 Jul 93	15 Sep 93
Field Work Completion	1 Nov 93	15 Jan 94
SI Report Preparation		
Preliminary Draft Submission	31 Jan 94	* 15 Mar 94
Draft Submission	15 Apr 94	* 15 May 94
Draft-Final Submission	1 Jul 94	* 29 Jul 94
Final Submission (No Disputes)	1 Aug 94	26 Aug 94

Note: An Asterisk denotes an actual deliverable will be received by parties indicated in the contract Statement of Work.

**V. Interim Measure Assessment****Past Removal/Remediation**

No interim measures have been performed at SEAD to date.

**Current Removal/Remediation**

An Action Memorandum with Section C is being prepared for removal/treatment of the source area at the Ash Landfill. Completion of the Memo is anticipated by 4th quarter FY93.

**Future Removal/Remediation**

- o implementation of the Action Memorandum for source treatment at the Ash Landfill.
- o soil contamination source removal at RMIS 060 in FY 94.
- o closure of the steam cleaning waste pit (RMIS 027) in FY 94.
- o IRM at the petroleum contaminated Fire Training Pit in FY 94.
- o Final remediation as per RI/FS' at the Ash Landfill and OB Grounds operable units in FY 95.

**VI. Cost Estimate for the Completion of Milestones****General**

Prior year funding amounts and projections of costs for completion of future milestones are given in Attachments 1 and 2.

## ATTACHMENT 1

## PAST FUNDING

FY 1979	Installation Assessment	50.0k
FY 1987	Update to Installation Assessement	251.5k
FY 1988	Site Investigation	138.8k
FY 1989	Demo Grounds (CE)	409.1k
	Incinerator Ash Landfill (CE)	527.3k
	Scope Preparation (CE)	0.7k
FY 1990	RD	20.0k
	RI/FS	241.8k
	RI/S&A	23.5k
FY 1991	RI/FS	1972.3k
	RI/S&A	179.9k
	REM	14.1k
FY 1992	RI/S&A and REM	294.0k

TOTALS: 4123.0k

**SENECA ARMY DEPOT FUNDING PROFILE (\$K)**

<b>TASK</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997 +</b>	<b>TOTALS</b>
RI/FS	2565		2359	8051	9350	22325
RI/FS S&A	182	9611	12577	8177		30547
IRM		2347			12500	14847
IRM S&A		238				238
RD/RA					5830	5830
RD/RA S&A			5300	22310	104830	132440
MON.	1076	660			175	1911
MON. S&A	80	80				160
IRA	153	50	265	2120		2588
IRA S&A	12	2625				2637
RI		79				79
RI S&A		6				6
O&M&					100	100
PROJ. SUPRT.	100	100				200
SI	4241					4241
SI S&A	86					86
PA	250					250
PA S&A	20					20
REMOVAL	74					74
REM.S&A	6					6
<b>TOTALS</b>	<b>8845</b>	<b>15796</b>	<b>20501</b>	<b>40658</b>	<b>132785</b>	<b>218585</b>

CONCURRENCE SHEET

*Roy E. Johnson*  
ROY E. JOHNSON  
LTC, OD  
Commanding

*27 July 1993*  
DATE *J*

*STEVE info SMLG*

FAX TRANSMITTAL

FROM: U.S. ARMY DEPOT SYSTEM COMMAND DCS FOR INDUSTRIAL RISK MANAGEMENT-----ENVIRONMENTAL MANAGEMENT DIVISION  
CHAMBERSBURG, PA 17201-4170  
OFFICE: AMSDS-IN-E  
PHONE: DSN:570-9427 COM:(717)267-9427 FAX:-8264  
FROM: JOHN BIERNACKI

TO: AMCEN-A, ATTN: PETE CUNANAN

DATE: 16 JULY 1993 CLASSIFICATION:  
PRECEDENCE: HEADER + 0 PAGES

SUBJECT: REQUIRED ACTIVE SITES INSTALLATION RESTORATION PROGRAM (IRP), ACTION PLANS---SUBMITTAL "HEADS UP"

1. Action plans were over night mailed to AMC today, at about 1100 to meet today's S:
2. Please phon monday if action plans are not received.
3. The installations, AEC and COE devoted considerable efforts, time, and labor to meet your S: and I appreciate their efforts.
4. However, we would appreciate your continued efforts to gain the 17/51 spaces allocated for DESCOM.

thank you  
john b *jvb 7/16/93*

thanks

CF:

- ANAD, ATTN: SDSAN-DEL-EMD RON GRANT/LESLIE WARE
- LBAD, ATTN: SDSBG-IOE-E TERRY HAZLE/MARY MURRAY
- LEAD, ATTN: SDSLE-EN KRISHNA GANTA/GEORGETTE MYERS
- RRAD, ATTN: SDSRR-W LONNIE WRIGHT/MIKE LOCKARD
- SEAD, ATTN: SDSSE-HE STEVE ABSOLOM/RANDY BATTAGLIA/ TOM ENROTH
- SIAD, ATTN: SDSSI-ENV JIM RYAN/BOB WEIS
- TOAD, ATTN: SDSTO-EM JOE MACIEJEWSKI/ROSS MANTIONE
- TEAD, ATTN: GLENN ROBERTS/LARRY FISHER
- SVDA, ATTN: SDSLE-VA JOHN CLARKE

OPTIONAL FORM 99 (7-90)

a:faxform2,p39,jvb,16jul93

<b>FAX TRANSMITTAL</b>		# of pages ► <b>1</b>
To <i>Depots</i>	From <i>John Biernacki</i>	
Dept./Agency <i>DESCOM</i>	Phone #	
Fax #	Fax #	

PROJECT EXECUTIVE SUMMARY	PROJECT: DMA SEAD-01 IRP - SENECA ARMY DEPOT, ROMULUS, NY PROJECT MANAGER: GARY EAST OFFICE SYM/TEL#: CEHND-PM-EP - 205/955-4416	DIVISION: HUNTSVILLE DIVISION DISTRICT: HUNTSVILLE DIVISION Print Date: 03/21/93 As Of Date: 02/26/93
RCS:		

I. STATUS SUMMARY:

PHASE	PERCENT COMPLETE		COST ESTIMATE SUMMARY		RELEASER / TITLE / DATE RELEASED
	SCHEDULED	ACTUAL	PA	7,109,638	DISTRICT:
DESIGN	44	44	REVISED PA	7,109,638	, , / /
CONSTRUCTION	0	0	PA DATE	02/26/93	DIVISION:
OVERALL	44	44	CWE	0	ROBERT D. BROWN, COL, DIVISION ENGINEER, 03/26/93

II. STATUS OF PROJECT COSTS: ( \$000 )

PROJECT COST BREAKDOWN (1)	PROJECT BASELINE ESTIMATE	BUDGET CWE	CONSTRUCTION AWARD CWE	PROJECT APPROVED ESTIMATE	COST VARIANCE	PROJECT CURRENT ESTIMATE	PROJECT FORECAST ESTIMATE
APPROVAL DATE	/ /	/ /	/ /	/ /		/ /	/ /
SWMU CLASSIFICATION STUDY (C)	75	N/A	N/A	75	0	75	75
10 HIGH PRI AOC WORKPLAN PREP	150	N/A	N/A	150	0	150	150
SEVEN AOC (SI)	706	N/A	N/A	706	0	706	706
THREE AOC (SI) 15 MOD PAI ABC	298	N/A	N/A	298	0	298	298
ARCHEOLOGICAL INVESTIGATION	0	N/A	N/A	0	0	0	500
Sub-Total for PA/SI - PRELIM ASSESS/SITE IN	1,406	N/A	N/A	1,406	0	1,406	1,906
ASH LANDFILL RI WORKPLAN PREP	182	N/A	N/A	182	0	182	182
OB GROUNDS RI WORKPLAN PREP (	127	N/A	N/A	127	0	127	127
ASH LANDFILL (RI) (C)	957	N/A	N/A	957	0	957	957
OB GROUNDS (RI) (C)	1,015	N/A	N/A	1,015	0	1,015	1,015
ASH LANDFILL RI/FS	1,189	N/A	N/A	1,189	0	1,189	1,189
OB GROUNDS RI/FS	1,264	N/A	N/A	1,264	0	1,264	1,264
Sub-Total for RI - REMEDIAL INVESTIGATION	4,734	N/A	N/A	4,734	0	4,734	4,734
ACTION MEMORANDUM	0	N/A	N/A	0	0	0	160
SLUDGE DISPOSAL PERMIT	0	N/A	N/A	0	0	0	120
Sub-Total for RD/RA - REMED DESIGN/REMED IN	0	N/A	N/A	0	0	0	280

Continued

IV. PROJECT ISSUES AND CONCERNS:



PROJECT EXECUTIVE SUMMARY	PROJECT: OMA SEAD-01 IRP - SENECA ARMY DEPOT, ROMULUS, NY	DIVISION: HUNTSVILLE DIVISION
	PROJECT MANAGER: GARY EAST	DISTRICT: HUNTSVILLE DIVISION
RCS:	OFFICE SYM/TEL#: CEHND-PM-EP - 205/955-4416	Print Date: 03/21/93
		As Of Date: 02/26/93

V. PROJECT SYNOPSIS

Projection Location: Seneca Army Depot, Romulus NY.

Project Objective: To identify all potential sources of contamination, define the quantity and extent of contamination in the soil and groundwater and implement appropriate remedial measures.

Background: The Seneca Army Depot (SEAD) was constructed in 1942-43 to serve as a munitions facility during World War II. It is situated on 10,661 acres of federally owned land in Seneca County and lies between Cayuga Lake and Seneca Lake, the two largest of the Finger Lakes in upstate NY. SEAD consists of a main storage area of underground igloo type magazines; aboveground magazines; a headquarters area; operative, maintenance and service facilities; a housing area; rail facilities and an airstrip. At one time SEAD operated as a depot for special weapons.

On 13 July 1989 SEAD was listed as a Federal Facility on the National Priority List under CERCLA. SEAD has a signed IAG with the EPA and the New York State Department of Environmental Conservation (NYSDEC).

In the past many liquid and solid materials have been disposed of at SEAD. Oily liquid materials and combustible solids were burned in pits and solid materials were buried, burned or taken off site for disposal. In addition, explosives and propellants have been exploded, burned and disposed of on site.

To date 72 Solid Waste Management Units (SWMUs) have been identified at SEAD. These 72 SWMUs identify all known potential sources of contamination at SEAD. Agreement has been reached with the EPA and NYSDEC that 15 SWMUs are not contaminated, require no further action and are therefore classified as "no action SWMUs". An additional 22 SWMUs require additional information before they can be classified as either "no action SWMUs" or "Areas of Concern" (AOC). The remaining 35 have been classified as AOCs and measures are underway to determine the quantity and extent of contamination.

II. STATUS OF PROJECT COSTS: { \$ }

PROJECT COST BREAKDOWN (1)	PROJECT BASELINE ESTIMATE	BUDGET CWE	CONSTRUCTION AWARD CWE	PROJECT APPROVED ESTIMATE	COST VARIANCE	PROJECT CURRENT ESTIMATE	PROJECT FORECAST ESTIMATE
APPROVAL DATE	/ /	/ /	/ /	/ /		/ /	/ /
GROUNDWATER MONITORING	968	N/A	N/A	968	0	968	968
Sub-Total for LONG TERM MONITORING	968	N/A	N/A	968	0	968	968
TOTAL \$	7,108	N/A	N/A	7,108	0	7,108	7,888

III. STATUS OF PROJECT SCHEDULE: (MONTH/YEAR)

MAJOR MILESTONE (1)	BASELINE SCHEDULE	APPROVED SCHEDULE	SCHEDULE VARIANCE	CURRENT SCHEDULE	FORECAST SCHEDULE
7000 SENECA ARMY DEPOT			0		
7100 PA/SI			0		
7110 TEN HIGH PRI AOC WORKPLAN PREP			0		

PROJECT EXECUTIVE  
SUMMARY  
RCS:

PROJECT: OMA SEAD-01 IRP - SENECA ARMY DEPOT, ROMULUS, NY  
PROJECT MANAGER: GARY EAST  
OFFICE SYM/TEL#: CEHND-PM-EP - 205/955-4416

DIVISION: HUNTSVILLE DIVISION  
DISTRICT: HUNTSVILLE DIVISION  
Print Date: 03/21/93  
As Of Date: 02/26/93

II. STATUS OF PROJECT SCHEDULE: (MONTH/YEAR) (cont.)

MAJOR MILESTONE (1)	BASELINE SCHEDULE	APPROVED SCHEDULE	SCHEDULE VARIANCE	CURRENT SCHEDULE	FORECAST SCHEDULE
7112 COMMENTS FROM OUTSIDE AGENCIES	05/30/93	05/30/93	0	05/30/93	
7119			0		
7120 SEVEN AOC SI			0		
7121 INITIATION OF FIELD WORK	05/01/93	05/01/93	0	05/01/93	
7122 PRELIMINARY DRAFT SI REPORTS	11/01/93	11/01/93	0	11/01/93	
7123 DRAFT SI REPORT	12/15/93	12/15/93	0	12/15/93	
7124 COMMENTS FROM OUTSIDE AGENCIES	02/01/94	02/01/94	0	02/01/94	
7125 DRAFT FINAL SI REPORTS	03/15/94	03/15/94	0	03/15/94	
7126 COMMENTS FROM OUTSIDE AGENCIES	04/30/94	04/30/94	0	04/30/94	
7127 FINAL SI REPORTS	05/30/94	05/30/94	0	05/30/94	
7129			0		
7130 THREE AOC SI			0		
7131 INITIATION OF FIELD WORK	05/01/93	05/01/93	0	05/01/93	
7132 PRELIMINARY DRAFT SI REPORT	11/01/93	11/01/93	0	11/01/93	
7133 DRAFT SI REPORTS	12/15/93	12/15/93	0	12/15/93	
7134 COMMENTS FROM OUTSIDE AGENCIES	02/01/94	02/01/94	0	02/01/94	
7135 DRAFT FINAL SI REPORT	03/15/94	03/15/94	0	03/15/94	
7136 COMMENTS FROM OUTSIDE AGENCIES	04/30/94	04/30/94	0	04/30/94	
7137 FINAL SI REPORT	05/30/94	05/30/94	0	05/30/94	
7139			0		
<del>████████████████████</del> 15 MOD PRI AOC workplan Prep			0		
<del>████████████████████</del> Draft workplan			0		
7142 COMMENTS FROM OUTSIDE AGENCIES	05/30/93	05/30/93	0	05/30/93	
7143 DRAFT FINAL WORKPLANS	06/30/93	06/30/93	0	06/30/93	
7144 COMMENTS FROM OUTSIDE AGENCIES	08/15/93	08/15/93	0	08/15/93	
7145 FINAL WORKPLANS	09/15/93	09/15/93	0	09/15/93	
7149			0		
7150 Archeological Investigation			0		
7151 Initiation of Field Work			0		06/01/93
7152 Preliminary Draft Report			0		12/01/93
7153 Draft Report			0		02/01/94
7154 Comments From Outside Agencies			0		03/15/94
7155 Draft Final Report			0		04/15/94
7156 Comments From Outside Agencies			0		06/01/94
7157 Final Report			0		07/01/94
7159			0		
7300 RI/FS			0		
7310 ASH LANDFILL PH II RI/FS			0		
7311 INITIATION OF FIELD WORK	12/16/92	12/16/92	0	12/16/92 A	
7312 DRAFT RI	08/02/93	08/02/93	0	08/02/93	
7313 COMMENTS FROM OUTSIDE AGENCIES (RI)	09/17/93	09/17/93	0	09/17/93	
7314 DRAFT FS REPORT	10/04/93	10/04/93	0	10/04/93	
7315 DRAFT FINAL RI REPORT	10/17/93	10/17/93	0	10/17/93	
7316 COMMENTS FROM OUTSIDE AGENCIES (FS)	11/20/93	11/20/93	0	11/20/93	
7317 COMMENTS FROM OUTSIDE AGENCIES (RI)	12/02/93	12/02/93	0	12/02/93	

██████████ 4/10/93  
██████████ 4/10/93  
██████████ 4/10/93

PROJECT EXECUTIVE  
SUMMARY

PROJECT: OMA SEAD-01 IRP - SENECA ARMY DEPOT, ROMULUS, NY  
PROJECT MANAGER: GARY EAST  
OFFICE SYM/TEL#: CEHND-PM-EP - 205/955-4416

DIVISION: HUNTSVILLE DIVISION  
DISTRICT: HUNTSVILLE DIVISION  
Print Date: 03/21/93  
As Of Date: 02/26/93

RCS:

III. STATUS OF PROJECT SCHEDULE: (MONTH/YEAR) (cont.)

MAJOR MILESTONE (1)	BASELINE SCHEDULE	APPROVED SCHEDULE	SCHEDULE VARIANCE	CURRENT SCHEDULE	FORECAST SCHEDULE
7319 FINAL RI	01/04/94	01/04/94	0	01/04/94	
7320 COMMENTS FROM OUTSIDE AGENCIES (FS)	02/05/94	02/05/94	0	02/05/94	
7321 FINAL FS REPORT	03/06/94	03/06/94	0	03/06/94	
7322 DRAFT PROP REMEDIAL ACTION PLAN (PRAP)	03/06/94	03/06/94	0	03/06/94	
7323 PUBLIC COMMENT PERIOD ENDS	04/15/94	04/15/94	0	04/15/94	
7324 DRAFT FINAL PRAP	05/15/94	05/15/94	0	05/15/94	
7325 COMMENTS FROM OUTSID AGENCIES	06/30/94	06/30/94	0	06/30/94	
7326 FINAL PRAP	07/30/94	07/30/94	0	07/30/94	
7327 DRAFT RECORD OF DECISION (ROD)	07/30/94	07/30/94	0	07/30/94	
7328 COMMENTS FROM OUTSIDE AGENCIES	09/15/94	09/15/94	0	09/15/94	
7329 DRAFT FINAL ROD	10/15/94	10/15/94	0	10/15/94	
7330 COMMENTS FROM OUTSIDE AGENCIES	12/01/94	12/01/94	0	12/01/94	
7331 FINAL ROD	01/15/95	01/15/95	0	01/15/95	
7339			0		
7340 OPEN BURNING GROUNDS PH II RI/FS			0		
7341 INITIATION OF FIELD WORK	12/15/92	12/15/92	0	12/15/92 A	
7342 DRAFT RI REPORT	08/09/93	08/09/93	0	08/09/93	
7343 COMMENTS FROM OUTSIDE AGENCIES (RI)	09/24/93	09/24/93	0	09/24/93	
7344 DRAFT FS REPORT	10/08/93	10/08/93	0	10/08/93	
7345 DRAFT-FINAL RI REPORT	10/24/93	10/24/93	0	10/24/93	
7346 COMMENTS FROM OUTSIDE AGENCIES (FS)	11/23/93	11/23/93	0	11/23/93	
7347 COMMENTS FROM OUTSIDE AGENCIES (RI)	12/09/93	12/09/93	0	12/09/93	
7348 DRAFT-FINAL FS REPORT	12/23/93	12/23/93	0	12/23/93	
7349 FINAL RI REPORT	01/09/94	01/09/94	0	01/09/94	
7350 COMMENTS FROM OUTSIDE AGENCIES (FS)	02/07/94	02/07/94	0	02/07/94	
7351 FINAL FS REPORT	03/07/94	03/07/94	0	03/07/94	
7352 DRAFT PROP REMEDIAL ACTION PLAN (PRAP)	03/07/94	03/07/94	0	03/07/94	
7353 PUBLIC COMMENT PERIOD ENDS	04/18/94	04/18/95	0	04/18/95	
7354 DRAFT FINAL PRAP	05/18/94	05/18/94	0	05/18/94	
7355 COMMENTS FROM OUTSIDE AGENCIES	07/02/94	07/02/94	0	07/02/94	
7356 FINAL PRAP	08/02/94	08/02/94	0	08/02/94	
7357 DRAFT RECORD OF DECISION (ROD)	08/02/94	08/02/94	0	08/02/94	
7358 COMMENTS FROM OUTSIDE AGENCIES	09/17/94	09/17/94	0	09/17/94	
7359 DRAFT-FINAL ROD	10/17/94	10/17/94	0	10/17/94	
7360 COMMENTS FROM OUTSIDE AGENCIES	12/01/94	12/01/94	0	12/01/94	
7361 FINAL ROD	01/15/95	01/15/95	0	01/15/95	
7369			0		
7510 Action Memorandum			0		
7511 Preliminary-Draft Memorandum			0		08/01/93
7512 Draft Memo			0		10/01/93
7513 Comments from Outside Agencies			0		11/15/93
7515 Regulatory Approval			0		03/01/94
7519			0		
7710 Sludge Disposal Permit			0		
7711 Preliminary-Draft Permit			0		09/01/93
			0		12/01/93

PROJECT EXECUTIVE SUMMARY	PROJECT: OMA SEAD-01 IRP - SENECA ARMY DEPOT, ROMULUS, NY PROJECT MANAGER: GARY EAST OFFICE SYM/TEL#: CEHND-PM-EP - 205/955-4416	DIVISION: HUNTSVILLE DIVISION DISTRICT: HUNTSVILLE DIVISION Print Date: 03/21/93 As Of Date: 02/26/93
RCS:		

III. STATUS OF PROJECT SCHEDULE: (MONTH/YEAR) (cont.)

MAJOR MILESTONE (1)	BASELINE SCHEDULE	APPROVED SCHEDULE	SCHEDULE VARIANCE	CURRENT SCHEDULE	FORECAST SCHEDULE
7713 Comments From Outside Agencies			0		01/15/94
7714 Draft-Final Permit			0		02/15/94
7715 Comments From Outside Agencies			0		04/01/94
7716 Final Permit			0		05/01/94
7900 LONG TERM MONITORING			0		
7910 GROUNDWATER MONITORING			0		
7911 1st QUARTER MONITORING PERIOD	03/31/93	03/31/93	0	03/31/93	
7912 2nd QUARTER MONITORING PERIOD	06/30/93	06/30/93	0	06/30/93	
7913 3rd QUARTER MONITORING PERIOD	09/30/93	09/30/93	0	09/30/93	
7914 4th QUARTER MONITORING PERIOD	12/31/93	12/31/93	0	12/31/93	
7915 5th QUARTER MONITORING PERIOD	03/31/94	03/31/94	0	03/31/94	
7919			0		

IV. PROJECT ISSUES AND CONCERNS:

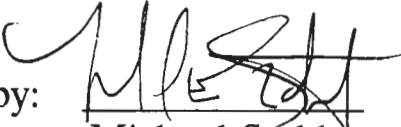
**PROJECT MANAGEMENT PLAN**

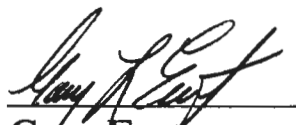
**FOR**

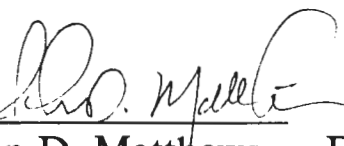
**SENECA ARMY DEPOT  
ROMULUS, NY**

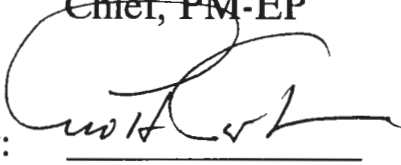
**CEHND-PM-EP  
MARCH 1993**

## PMP APPROVAL

Submitted by:  5 MAR 93  
Michael Stahl Date  
Project Manager

Reviewed by:  8 MAR 93  
Gary East Date  
Program Manger

Recommended by:  17 Mar 93  
John D. Matthews Date  
Chief, PM-EP

Approved by:  3/19/93  
Leo Carden Date  
Director, P&PM

# SENECA ARMY DEPOT - ROMULUS, NY

## PROJECT MANAGEMENT PLAN

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- 1.0 Executive Summary
- 2.0 Project Scope
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  - 2.2 Objective
  - 2.3 Work Breakdown Structure
  - 2.4 Work Scope
- 3.0 Project Organization
  - 3.1 Organizational Breakdown Structure
  - 3.2 Responsibility Assignment Matrix
- 4.0 Project Schedule
- 5.0 Project Cost/Budget
- 6.0 Resource Allocation
  - 6.1 Labor Resources
  - 6.2 Materials/Equipment/Facilities

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- 7.0 Acquisition Planning
  - 7.1 Current Contracting Status
  - 7.2 Future Contracting Actions
- 8.0 Project Requirements
  - 8.1 Regulatory Compliance/ Coordination
  - 8.2 Quality Control
  - 8.3 Safety
- 9.0 Management Control
  - 9.1 Change Control
  - 9.2 Reporting





## **1.0 Executive Summary**

The attached Project Management Plan (PMP) illustrates how the Environmental Installation Restoration Program (IRP) at the Seneca Army Depot (SEAD), Romulus, NY, will be executed and managed by the Huntsville Division of the U.S. Army Corps of Engineers (HND).

The objective of this plan is to insure that the IRP at SEAD is implemented in a timely and effective manner. This plan gives specific details on project scope, schedules, and associated costs. It also defines and details the project responsibilities of the participants involved; describes the project requirements, resource allocation, acquisition, acquisition planning, and procedures for project reporting and change control.

This plan incorporates the concept of Life Cycle Project Management (LCPM). HND is the LCPM for this project and has total responsibility for the management of the project from beginning to end. HND will be the single point-of-contact for the SEAD on all matters related to the project as described in this PMP.

This plan was developed by the HND Environmental Projects and Programs Division (PM-EP) and was coordinated with SEAD. The plan is intended to be a "living document" and will be revised and updated as required. All comments, suggestions, and inquiries should be referred to following address:

U.S. Army Engineer Division Huntsville  
ATTN: CEHND-PM-EP  
106 Wynn Drive  
Huntsville, AL 35807

DSN	645-5095
Commercial	205-955-5095
FAX	205-955-4664

## **2.0 Project Scope**

The scope of the environmental situation at SEAD currently consists of 72 identified Solid Waste Management Units (SWMUs) on the installation. The Installation Restoration Program (IRP) consists of a number of activities occurring on different but related schedules. The following discussion provides a description of these activities and their relationship to the entire project.

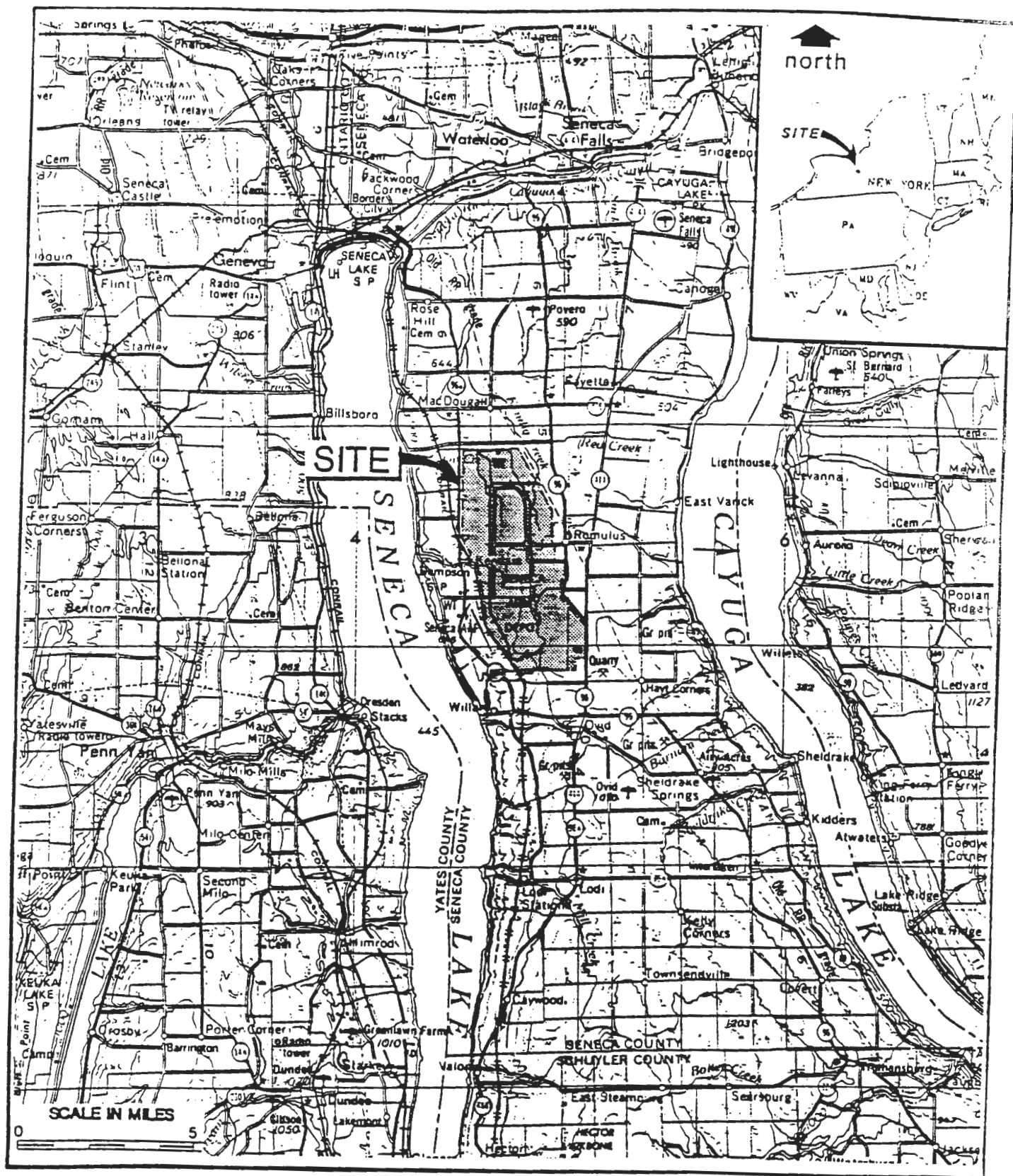
### **2.1 Background**

The Seneca Army Depot (SEAD), Romulus, NY was constructed in 1942-43 to serve as a munitions facility during World War II. It is situated on 10,661 acres of federally owned land in Seneca county and lies between Cayuga Lake and Seneca Lake, the two largest of the Finger Lakes in upstate NY. Figure 2.1 shows the general vicinity of SEAD and Figure 2.2 shows a map of the facility. SEAD consists of a main storage area of underground igloo type magazines; aboveground magazines; a headquarters area; operation, maintenance and service facilities; a housing area; rail facilities and an airstrip. At one time SEAD operated as a depot for special weapons.

On 13 July 1989 SEAD was listed as a Federal Facility on the National Priority List under CERCLA. SEAD has signed an IAG with the EPA and the New York State Department of Environmental Conservation (NYSDEC).

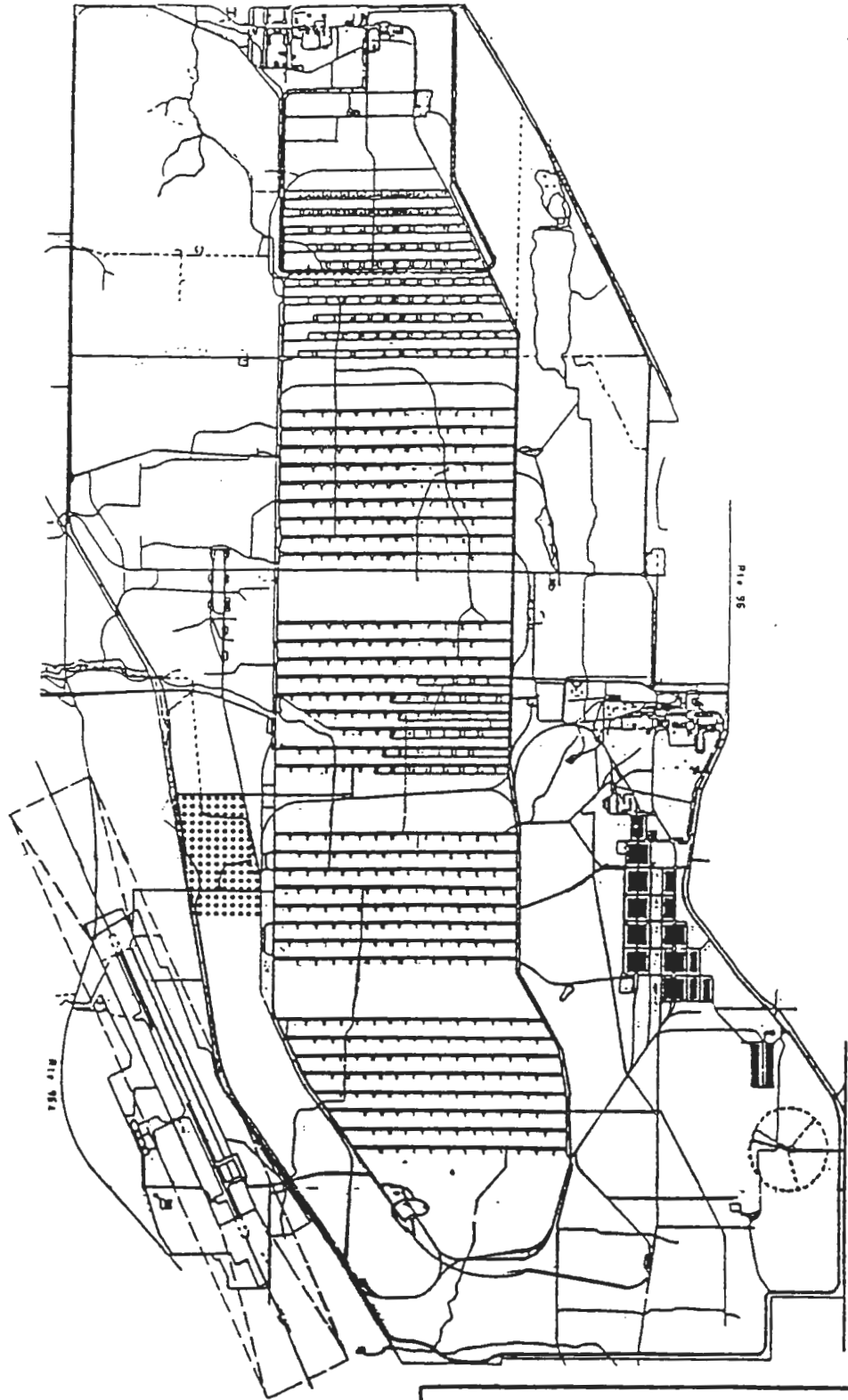
In the past many liquid and solid materials have been disposed of at SEAD. Oily liquid materials and combustible solids were burned in pits, and solid materials were buried, burned or taken off site for disposal. In addition, explosives and propellants have been exploded, burned and disposed of on site.

SEAD is underlain by a layer of glacial till up to 10 feet thick, a boundary layer of fractured shale, and several hundred feet of competent Devonian shale.



VICINITY AND LOCATION MAP

FIGURE 2.1



**SENECA ARMY DEPOT**

**SITE PLAN**

**FIGURE 2.2**

## **2.2 Objective**

The objective of the environmental IRP at SEAD is to identify all potential sources of contamination, define the quantity and extent of contamination in the soil and groundwater, and implement appropriate measures to remediate the contamination. To date, 72 Solid Waste Management Units (SWMUs) have been identified at SEAD. They are summarized in appendix A. These 72 SWMUs identify all known potential sources of contamination at SEAD. Agreement has been reached with the EPA and NYSDEC that 15 of these are not contaminated, require no further action and are therefore classified as "no action SWMUs". An additional 22 SWMUs require further information before they can be classified as either "no action SWMU's" or Areas of Concern" (AOC).The remaining 35 have been classed as AOCs and measures are underway to determine the quantity and extent of contamination.

## **2.3 Work Breakdown Structure (WBS)**

The WBS (Figure 2.3) for SEAD identifies the various elements associated with the IRP. The following is a detailed description of these elements.

### **Site Investigation (WBS 100)**

This phase of the project involves sampling and testing to determine whether contamination exists at the site and whether an RI/FS is required.

### **Remedial Investigation/Feasibility Study (WBS 200)**

This phase of the project involves identifying the areas and contaminants of concern; quantifying the concentrations and extent of contaminant migration; reviewing and analyzing the methods available for remediation; and selecting a preferred alternative for final remediation.

# WORK BREAKDOWN STRUCTURE

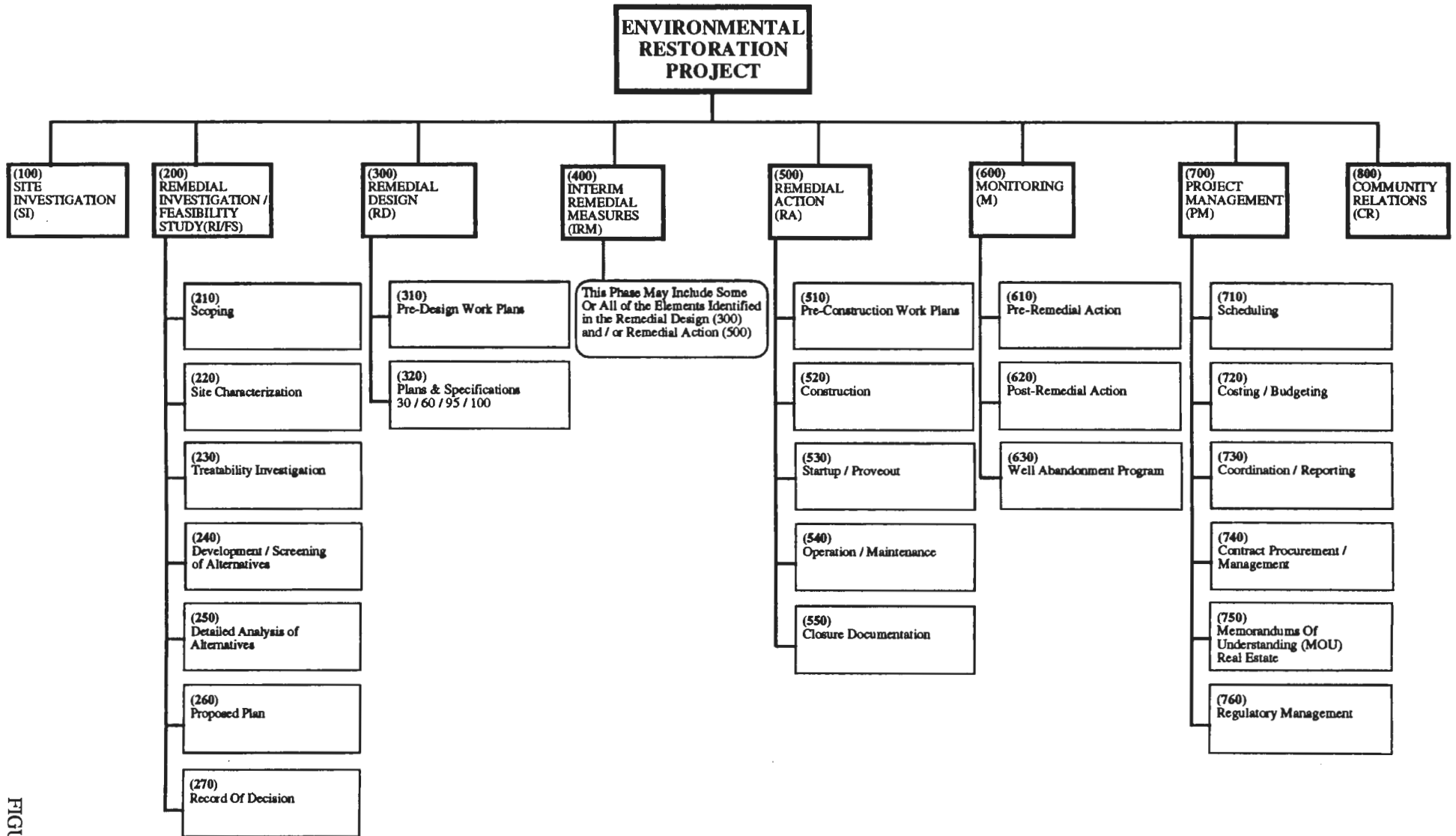


FIGURE 2.3

## Scoping (WBS 210)

This involves collecting and analyzing all available site records, photographs, and analytical data. This phase includes the development of data needs and objectives and the preparation of work plans to conduct a site interview.

## Site Characterization (WBS 220)

This phase includes all the field work required for obtaining the necessary physical and chemical data for quantifying the type, concentration, and quantity of contamination. This involves the collection and analysis of groundwater, surface water, air, surface soil, and subsurface soil samples. Regulatory standards for cleanup levels are then identified and reviewed for applicability. A baseline risk assessment is performed to determine the exposure pathways, receptors, and define the toxicity and environmental health risks associated with the contaminants.

## Treatability Investigation (WBS 230)

Bench or in-the-field pilot studies can be conducted at this stage to determine the effectiveness of a particular technology in remediating the contamination.

## Development/Screening of Alternatives (WBS 240)

Treatment technologies and disposal/containment alternatives are examined and screened for their appropriateness and applicability in meeting regulatory criteria.

## Detailed Analysis of Alternatives (WBS 250)

Remediation alternatives that pass the screening stage are now evaluated for their cost, overall effectiveness, and other criteria.



## Proposed Plan (WBS 260)

The preferred alternative is described in detail and provided to the public for review and comment.

## Record of Decision (WBS 270)

This phase documents the results of the review of the proposed plan and identifies the direction of the final remedial action for the site or sub-area of the site.

## **Remedial Design (WBS 300)**

The remedial design phase consist of the preparation of all work plans, specifications, calculations, and drawings required for the construction of the preferred alternative as documented in the record of decision (ROD).

### Pre-Design Work Plan (WBS 310)

Preparation of all work plans and technical and regulatory criteria.

### Plans and Specifications (WBS 320)

Preparation of the plans, specifications, calculations, and drawings for the Selected method of remediation. Design reports are typically submitted and reviewed at the 30%, 60%, 95%, and 100% stages.

## **Interim Remedial Measure (WBS 400)**

An interim remedial measure (IRM) is normally initiated to control the spread of contamination in cases where the health and safety of the public is threatened. This phase may include some or all of the elements identified in the remedial design and remedial action phases.

## **Remedial Action (WBS 500)**

The remedial action phase is the implementation (construction) of the remedial design including the preparation and submittal of final project closure documentation.

### **Pre-Construction Work Plans (WBS 510)**

Preparation of all work plans (Safety/Health, Quality Assurance, Sampling/Analysis, etc.) required for implementing the remedial action.

### **Construction (WBS 520)**

The actual field effort to extract and treat contaminated groundwater and soil or implement other controls as detailed in the ROD.

### **Startup/Proveout (WBS 530)**

This phase refers to the startup/proveout of a system designed to treat contaminated soil or groundwater. This would include evaluation of system effectiveness in meeting cleanup objectives by confirmatory sampling and analysis of treated soil or effluent.

### **Operation/Maintenance (WBS 540)**

The actual operation and maintenance of a treatment system. This includes periodic sampling and analysis of the treated soil or effluent and areal monitoring to evaluate system effectiveness.

### **Closure Document (WBS 550)**

Preparation and submittal of analytical data to confirm that the remediation goals have been met.

### **Monitoring (WBS 600)**

This included the frequent assessment of contaminant concentrations in groundwater, surface water, surface soil, and subsurface soil.

### **Pre-Remedial Action (WBS 610)**

This includes the systematic sampling and analysis of contaminated media via monitoring wells or other means to define the extent and concentrations of concern.

### **Post-Remedial Action (WBS 620)**

Sampling and analysis to confirm that the remediation objectives have been met.

### **Well Abandonment Program (WBS 630)**

The process of closing and sealing of wells which are no longer of use to insure that no pathways are available for the introduction of new contaminants into the groundwater.

### **Project Management (WBS 700)**

This includes all of the management, control, and coordination activities necessary to effectively execute the project.

### **Schedules (WBS 710)**

Provides the milestones by which project phases must be completed. A summary schedule for the project is provided in section 4.0 and a detailed schedule is provided in Appendix A.

### **Costs/Budgets (WBS 720)**

Identification of project costs and estimated budgets are provided in section 5.0 and Appendix B.

## Coordination/Reporting (WBS 730)

This element consists of the methods and procedures for the coordination and reporting of project status.

## Contract Procurement and Management (WBS 740)

The majority of the field work (investigative and construction) will be executed by contractors. This element consists of the methods and procedures to be used to procure and manage these contracts.

## Memorandums of Understanding (MOU) (WBS 750)

When the project requirements dictate that significant government resources outside of HND be utilized, MOUs will be developed and implemented to insure that responsibilities have been clearly defined and assigned.

## Regulatory Management (WBS 760)

The coordination and negotiation of regulatory (technical and legal) issues related to the remediation effort. SEAD, as the waste generator, has primary responsibility for this function. HND will provide the necessary technical support as requested.

## Community Relations (WBS 800)

The process of keeping the local community apprised of the current efforts of the remediation and aware of any potential impacts to the public. This also includes providing opportunities for the public to participate in the decision process concerning the final choice of remediation.

### **2.4 Work Scope**

Of the 72 identified SWMUs at SEAD, agreement has been reached with the EPA and NYSDEC that 15 of these are not contaminated, require no further action and are therefore classified as "no action SWMUs". An

additional 22 SWMUs require further information before they can be classified as either "no action SWMU's" or Areas of Concern" (AOC). SEAD is coordinating with the regulators to define the information and the extent of sampling required. The remaining 35 SWMUs have been classed as AOCs and measures are underway to determine the quantity and extent of contamination. Table 2.1 provides the current classification of all 72 SWMUs at SEAD.

The current work effort at SEAD consists of the following activities:

**Site Investigation (WBS 100)**

15 Moderate Priority AOCs - Preparation of workplans is under contract.

10 High Priority AOCs - Site Investigations are in progress.

**Remedial Investigation/Feasibility Study (WBS 200)**

Ash Landfill - Phase I RI has been completed. A Phase II RI/FS is under contract.

Open Burning Grounds - Phase I RI has been completed. A Phase II RI/FS is under contract.

**Interim Remedial Measures (WBS 400)**

Scoping has begun to do an IRM to treat the soil/groundwater contamination at the Ash Landfill.

**Monitoring. Pre-remedial action (WBS 610)**

A contract is in place that provides for the monitoring of wells at the Ash Landfill and OB Grounds sites on a quarterly basis.

SENECA ARMY DEPOT (SEAD)  
SOLID WASTE MANAGEMENT UNITS (SWMUs)

Ash Landfill - SEAD 3, 6, 8, 14, 15

Open Burning Grounds - SEAD 23

High Priority AOCs - SEAD 4, 11, 13, 16, 17, 24, 25

Moderate Priority AOCs - SEAD 5, 9, 12, 43, 44,  
62, 63, 64, 67, 69, 71, 72

Additional Information required for classification - SEAD 1, 2, 10,  
27, 28, 29, 30, 31, 32, 33, 34, 38, 39, 40, 41, 46, 48, 49, 51, 52, 54, 66,  
68, 70

No further action required - 7, 18, 19, 20, 21, 35, 36, 37, 42, 47, 53, 55, 61,  
65

182 = NO ACTION  
10, 27, 28, 29, 30  
32, 33, 34, 48  
38, 39, 40, 41  
49, 51, 52, 66, 68, 70



TABLE 2.1

### **3.0 Project Organization**

For the IRP at SEAD to be a success close coordination and constant communication between various State and Federal agencies is essential. It is therefore imperative that an organizational breakdown structure (OBS) be developed and identified.

Figure 3.1 provides a graphical OBS for this project. The OBS identifies the main agencies and how they interrelate with each other. The responsibility assignment matrix (RAM), provided in Figure 3.2, integrates the WBS (tasks) with the OBS resources.

### **4.0 Project Schedule**

A project summary schedule is provided in figure 4.1. A more detailed schedule is given in Appendix B. The project schedule will be reviewed and updated quarterly.

Schedule changes will be coordinated with SEAD prior to requesting a variance at the HND project review board (PRB).

### **5.0 Project Cost/Budget**

A detailed budget for FY93 is provided in Appendix D.

Project budgets are prepared annually and are updated quarterly. As is the case with schedules, no changes to the project budget will be made without prior approval of SEAD and the HND PRB.

All project funding will be requested by HND from CEMP-R through CEMRD. Funding required by support agencies (CEMRD) will be provided by HND by means of Military Interdepartmental Purchase Requests (MIPR).

# SENECA ARMY DEPOT NATIONAL PRIORITY LIST AGENCY INTERFACE DIAGRAM

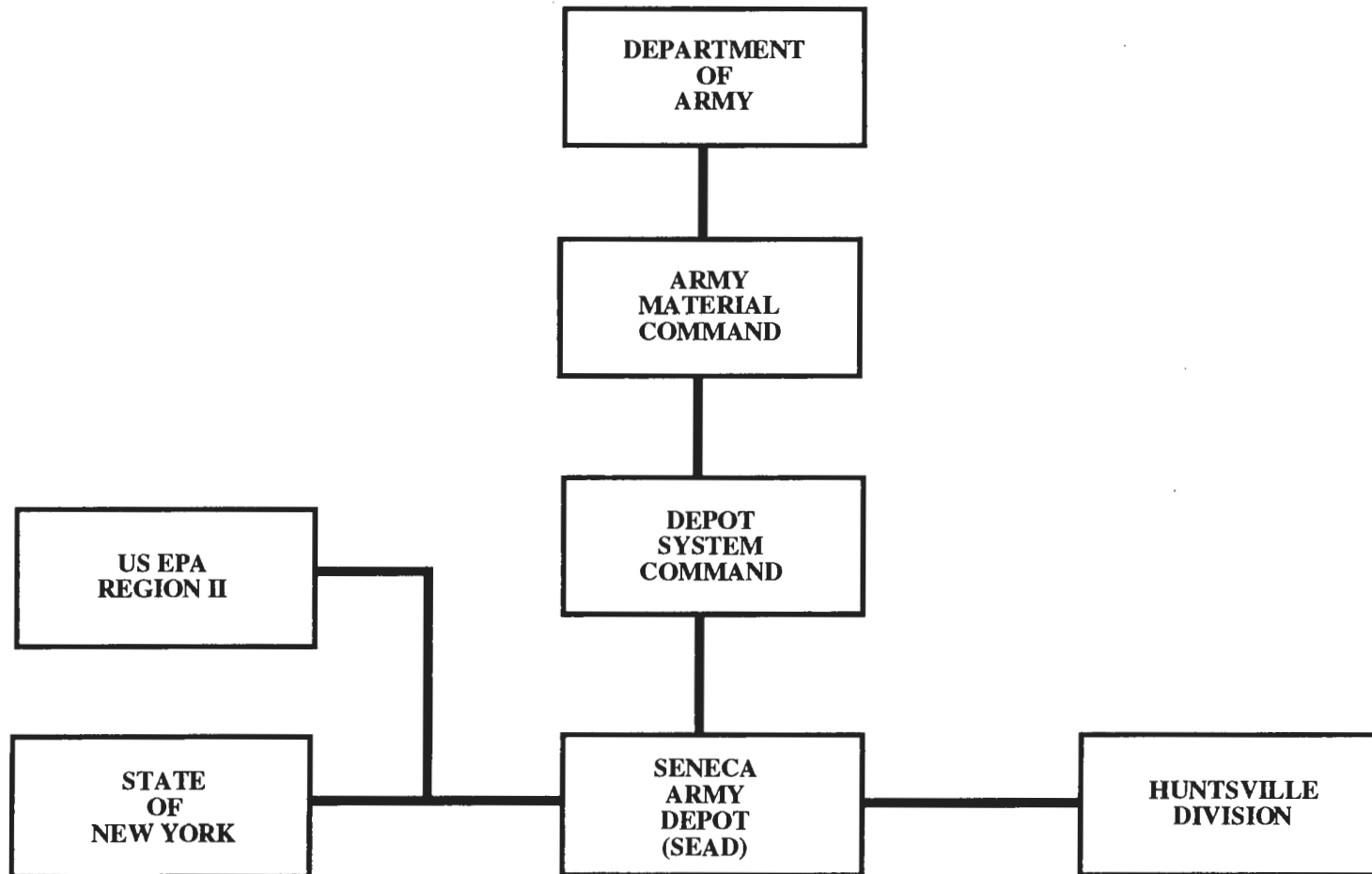


FIGURE 3.1



RESPONSIBILITY ASSIGNMENT MATRIX

	WBS\OBS	DESCOM	SEAD	USEPA	NYSDEC	DIST	CEHND
SI	Site Invest	M	M R A	M R A	M R A	C	C X
RI/FS (WBS 200)	Scoping	M	M R A	M R A	M R A	C	C X
	Site Char	M	M R A	M R A	M R A	C	C X
	Treatment Inv	M	M R A	M R A	M R A	C	C X
	Develop./S. Al	M	M R A	M R A	M R A	C	C X
	Detailed Alts	M	M R A	M R A	M R A	C	C X
	Proposed Plan	M	M R A	M R A	M R A	C	C X
	Record of Dec	A	M R A	M R A	M R A	C	C X
RD (WBS 200)	Pre-Design WP	M	M R A	M R A	M R A	C	C X
	30/60/95/100	M R	M R A	M R A	M R A	C	C X
RA/IRM (WBS 300/ 400)	Pre-Const WPIs	M R	M R A	M R A	M R A	C X	S
	Construction	M R	M R A	M R A	M R A	C X	S
	Startup/Prove	M	M R A	M R A	M R A	C X	S
	Oper./Maint	M	M R A X	M R A	M R A	S	S
	Closure Doc	M R	M R A X	M R A	M R A	S	S
MONITOR (WBS 500)	Pre-RA/IRM	M R	M R A	M R A	M R A	C	C X
	Post-RA/IRM	M R	M R A	M R A	M R A	C	C X
	Aband. Program	M R	M R A	M R A	M R A	C	C X
PROJECT MGMT (WBS 600)	Schedules	M R	M R A	M R A	M R A	C	C R X
	Budgets/Cost	M R A	M R A	M	M R A	C	C R X
	Coordination	M	M	M	M	C	C R X
	Contract Proc	M	M	M	M	C	C R X
	MOUs	M	M			C	C R X A
	Regulatory Mgt	M A	X	X	X	C	C S
(WBS 700)	Community Rel	M A	M X	M R A	M R A	S	S

Figure 3.2

## Responsibility Assignment Matrix

### Legend

<u>SYMBOL</u>	<u>EXPLANATION</u>
A = Approval	An Approval of project requirements, resources, documentation, and other project material.
C = Coordination	A requirement to participate in the development of project activities.
M = Monitor	A requirement to provide guidance, input, and oversight of project activities.
R = Review	A requirement to review and provide comment on project documentation.
S = Support	A responsibility to provide resources, technical assistance or other active participation upon request.
X = Execution	An assignment of responsibility to carry out the necessary action to achieve the objective of the task.

ID	Name	1989			1990				1991				1992				1993				1994				Q1
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
1																									
2	Placed on NPL																								
3																									
4																									
5	SWMU Classification Study																								
6																									
7																									
8	Ash Landfill																								
9	Remedial Investigation, Work Plan Preparation																								
10	Remedial Investigation																								
11	Phase II Remedial Investigation/Feasibility Study & ROD																								
31																									
32																									
33	Open Burn Grounds																								
34	Remedial Investigation, Work Plan Preparation																								
35	Remedial Investigation																								
36	Phase II Remedial Investigation/Feasibility Study																								
55																									
56																									
57	10 High Priority AOC's																								
58	Work Plan Preparation																								
59	Site Investigation																								
68																									
69																									
70	Moderate Priority AOC's																								
71	Work Plan Preparation																								
81																									
82																									
83	Ground Water Monitoring																								

## **6.0 Resource Allocation**

### **6.1 Labor Resources**

To support the management and execution of this project the following labor resources are available within HND:

#### **Technical Staff**

Directorate of Engineering

- Safety Engineering
- Geotechnical Engineering
- Environmental Engineering
- Civil/Structures Engineering
- Mechanical/Electrical Engineering
- Cost Engineering

Directorate of Contracting

- Environmental Acquisition Division

Directorate of Program and Project Management

- Environmental Projects Division
- Ordnance and Unexploded Waste Division
- A-E Contracts Division

#### **Advisory and Administration Staff**

Directorate of Information Management

## Directorate of Resource Management

Finance and Accounting Division  
Program and Budget Division

### Office of Counsel

The majority of the technical tasks (field work, report and work plan development, etc.) will be accomplished by private A-E and Construction firms under contract to the Corps.

### **6.2 Materials/Equipment/Facilities Resources**

All materials, equipment, and facilities required for executing the field investigations, studies, and reports will be provided by the contractors.

### **7.0 Acquisition Planning**

The acquisition of A-E services (Engineering, Design, Investigation) to implement the IRP, are the responsibility of the LCPM. The general acquisition and management strategy for this project is that HND will procure and manage the project phases from investigation to design.

### **7.1 Current Contracting Status**

HND currently has Engineering Science, Inc. under contract for the following activities:

<b><u>Task</u></b>	<b><u>WBS</u></b>
--------------------	-------------------

Site Investigation	100
--------------------	-----

- Workplan preparation 15 AOCs
- Seven high priority AOCs
- Three moderate priority AOCs

<u>Task</u>	<u>WBS</u>
RI/FS	200
- Ash Landfill	
- Open Burning Grounds	
Monitoring	600
- Groundwater monitoring	

## **7.2 Future Contracting Actions**

The following provides milestones for future contract actions.

<u>Requirement</u>	<u>Type</u>	<u>Est Cont Date</u>
Action Memorandum	A-E	April 1993
Landspread Sewage Sludge Permit	A-E	May 1993
Complete Archeological Investigation	A-E	May 1993
SWMU Classification Report Update	A-E	June 1993

## **8.0 Project Requirements**

In addition to the specific technical requirements outlined in the SOWs there are a number of general project requirements which must be addressed. The general requirements include coordination with local, State, and Federal regulatory agencies, community relations, project quality control (QC), safety, and value engineering.

## **8.1 Regulatory Compliance/Coordination**

The environmental restoration project at SEAD is being conducted in accordance with Federal regulations resulting from the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), commonly referred to as Superfund. SEAD was placed in the National Priorities List (NPL) on 13 July 1989 and subsequently SEAD entered into a Interagency Agreement (IAG) with the U.S. Environmental Protection Agency (EPA) and the New York State Department of Environmental Conservation (NYSDEC). This agreement governs the corrective action process from site investigation through site remediation.

SEAD has the primary responsibility of insuring compliance with the IAG. In addition, SEAD is responsible for all communication between the regulatory Agencies and the Department of the Army. SEAD is also responsible for certification of submittals. However, as their technical representative, HND has the responsibility to provide support in coordinating and resolving any technical issues related to this agreement. In addition, HND is responsible for identifying any possible potential impacts to the schedules contained in the IAG.

## **8.2 Quality Control**

To insure that SEAD is provided with a high quality project, several levels of quality control are necessary. HND will provide an independent review of all contractor generated documents to insure compliance with the SOW and regulatory guidance. HND will also employ an independent QA/QC laboratory to verify contractor results. Additional quality control in this area will be implemented at the contractors management level.

All field activities will be conducted in accordance with regulatory approved Quality Assurance Project Plans.

## **8.3 Safety**

All field work will be conducted in accordance with Corps and regulatory approved (NYSDEC and USEPA) safety plans. Contractor developed

plans will be reviewed by the HND safety office for compliance with appropriate codes and regulations. In addition, where field work is conducted in areas where chemical surety material (CSM) or unexploded ordnance (UXO) is discovered, the HND mandatory center of expertise (MCX) shall review and approve all work plans, coordinate Army ordnance technical support, and participate in field safety audits.

## **9.0 Management Control**

Management control of the project at SEAD is the responsibility of the LCPM. The LCPM will be the single point-of-contact for SEAD for all phases of the project.

### **9.1 Change Control**

All changes which potentially impact scope, schedule, budget, or cost will be identified and documented using the change request form provided in Appendix D.

### **9.2 Reporting**

Project status will be reported on a bi-monthly basis to the HND PRB. The reporting format used is the LCPM Reporting System (LRS) as shown in Appendix C.

Applicable sections of this plan will be revised to reflect all approved changes to scope, schedule, budget, and cost. These revisions will be made on a quarterly basis and copies of the revised section(s) will be provided to all holders of the plan.



# APPENDIX A

SEAD-1: Building 307-Hazardous Waste Container Storage Facility.

Background: Drums of hazardous waste which are generated on Seneca are transported to the building and stored until disposal contracts are procured. Regular inspections by Seneca and NYSDEC are performed in compliance with the Resource Conservation and Recovery Act, the law which regulates hazardous waste storage buildings such as this.

Summary of Discussions: Historical use, regulation, compliance information, and building designs and specifications for this facility were scrutinized.

Consensus: NYSDEC Federal Facilities will consult with applicable NYSDEC RCRA compliance authorities. The Army is not required to supply any additional information at this time. Upon consulting RCRA authorities, NYSDEC Federal Facilities will inform SEAD of its recommended classification SEAD-1. This task will be performed expeditiously, so that the SCR can be updated accordingly.

Classification: NYSDEC-Reserved, Army-Concur, USEPA-(deferred to earlier meeting).

SEAD-2: Building 301- PCB Transformer Storage Facility

Background: Decommissioned transformer units and other suspected PCB-contaminated electrical equipment are delivered to the building by linemen. The equipment is then sampled and analyzed to determine whether or not the equipment is contaminated, and to determine appropriate disposal procedures for the equipment.

Summary of Discussions: Historical use, regulation, compliance information, and building designs and specifications for this facility were scrutinized.

Consensus: NYSDEC Federal Facilities will consult with applicable NYSDEC RCRA compliance authorities. The Army is not required to supply any additional information at this time. Upon consulting RCRA authorities, NYSDEC Federal Facilities will inform SEAD of its recommended classification for SEAD-2. This task will be performed expeditiously, so that the SCR can be updated accordingly.

Classification: NYSDEC-Reserved, Army-Concur, USEPA-(deferred to earlier meeting).

SEAD-3: Incinerator Cooling Water Pond.

Background: The pond was used to hold the cooling water and fly ash generated from the scrubber on the municipal waste incinerator. The fly ash was removed every 18 months and disposed at the ash landfill. This unit is included in the current investigations at the ash landfill.

SEAD-4: Munitions Washout Facility Leach Field.

Background: Operations at this unit included dismantling and removing explosives from munitions by steam cleaning. This process produced explosive solids and wastewater. It was reported that the wastewater was processed through sawdust to remove any solid explosive residues prior to being discharged to as an area where it leached into the ground or flowed into a nearby ditch.

Summary of Discussions: Limited. This SWMU is being addressed under the Workplan for CERCLA Investigation of Ten Solid Waste Management Units (MAIN/January 1992). This workplan is under review by EPA.

Consensus: All parties were in agreement prior to the 21-22 SEPT 92 meetings.

Classifications: NYSDEC-AOC, Army-Concur, USEPA-(deferred to earlier meeting).

SEAD-5: Sewage Sludge Waste Piles.

Background: Sludge is removed approximately every two months from the two sewage treatment plants' sludge beds and was formerly stored in the waste piles until a permit is acquired to apply the sludge to the land for growing grassy areas for pheasant habitat.

Summary of Discussions: Limited. The Army is currently making plans to conduct a CERCLA Site Investigation at this site.

Consensus: All parties were in agreement prior to the 21-22 SEPT 92 meetings.

Classifications: NYSDEC-AOC, Army-Concur, USEPA- (differed to earlier meeting).

SEAD-6: Abandoned Ash Landfill

Background: The ash landfill was operated from 1974 to 1979 for ash which was generated from the municipal incinerator. Previously, this area was used with refused burning pits from 1941 until the late 1950's or early 1960's. The Town of Varick's public sanitary landfill was used for a period of time until the incinerator was constructed.

Summary of Discussions: Limited. This unit is a part of the Ash Landfill Operable Unit currently being addressed in a RI/FS.

Consensus: All parties were in agreement prior to the 21-22 SEPT 92 meetings.

Classification: NYSDEC-AOC, Army-Concur, USEPA-(differed to earlier meeting).

SEAD-7: Shale Pit.

Background: Construction debris is dumped into the pit. No cover is applied. The fill area is not regulated under Subpart 360-7 of the New York Solid Waste Regulations. The regulations exempt sites at which only recognizable uncontaminated concrete, asphaltic pavement, brick, soil or stone is placed (Section 360-7.1(b)(1)(i)).

Summary of Discussion: Past clean fill disposal practices were discussed. 6 N.Y.C.R.R Subpart 360-7 Construction and Demolition Landfill regulations were reviewed. SEAD-7 receives only recognizable uncontaminated concrete, asphalt pavement, brick, soil and stone.

Consensus: The shale pit does not pose a reasonable threat of release.

Classification: NYSDEC-No Action, Army-Concur, USEPA-(differed to earlier meeting).

SEAD-8: Non-Combustible Fill Area.

Background: This fill area is near the ash landfill. Items which were too bulky, or non-combustible were buried here instead of being incinerated.

Summary of Discussions: Limited. This SWMU is part of the Ash Landfill Operable Unit currently being addressed in a RI/FS.

Consensus: All parties in agreement prior to meetings

Classification: NYSDEC-AOC, Army-Concur, USEPA-(Differed to earlier meeting).

SEAD-9: Old Scrap Wood Site.

Background: This area was used for scrap wood from 1984 to 1986; construction debris was landfilled here from 1977 to 1984. Firewood was sold from this site from 1984 until the present. Periodically, the fire department held training exercised using the woodpile as fuel.

Summary of Discussions: The Army agreed that this site may pose a reasonable threat of release do to past waste disposal uncertainties. Prior to this areas use for a scrap site, the area received landfill. The origin and nature of this landfill is unknown

Consensus: All parties agreed that due to uncertainty regarding the site, further investigation is needed.

Classification: NYSDEC-AOC, ARMY-Concur, USEPA-(deferred to earlier meeting).

SEAD-10: Present Scrap Wood Site.

Background: Scrap wood from various depot activities is dumped into piles and is sold to depot employees and the public. The area is segregated for scrap wood, pallets, pressure treated wood, and railroad ties. Periodically, the fire department holds a training exercise using only the scrap wood pile as fuel.

Summary of Discussions: Historical management of SEAD's current scrap woodpile was reviewed. Past practices were discussed at length.

Consensus: NYSDEC asked that limited sampling and analysis be performed at this site. SEAD agreed.

Classification: NYSDEC-Reserved, Army-Concur , USEPA-(differed to earlier meeting).

SEAD-11: Old Construction Debris Landfill.

Background: This landfill is approximately four acres in size, and was operated approximately 1946 to 1949. The operating practices at that time are unknown.

Summary of Discussions: Limited. This unit is currently being addressed under the Workplan for CERCLA Investigation of Ten Solid Waste Management Units (MAIN/January 1992). This workplan is currently under EPA review.

Consensus: All parties were in agreement prior to the 21-22 Sept 92 meetings.

Classifications: NYSDEC-AOC, Army-Concur, USEPA-deferred to earlier meeting.

SEAD-12: Radioactive Waste Burial Sites.

Background: Location A: Five separate burial pits located northeast of Building 813; Location B: Two separate areas located north of Building 804. A 5,000 gallon tank and a dry storage pit are located here.

Radioactive wastes were reportedly buried in the five pits located northeast of Building 813. The underground storage tank was reportedly used for storage of wastewater which was reportedly generated during the washing of radioactive contaminated clothing.

Location A was excavated in 1986. A sizeable amount of lab trash was found in the pits. The excavated trash and soil were loaded into containers and shipped to an authorized off-post radioactive waste landfill in December, 1987. Surface-level radiation readings indicated that all radioactive contamination had been removed from the area. Location B, which included the 5,000 gallon tank and dry storage pit, was also excavated in 1986. No suspicious debris was encountered in the dry pit except for pieces of plywood.

Location B was found to be free from radioactive contamination.

SEAD-12: Radioactive Waste Burial Sites. (cont'd)

Summary of Discussions: Limited. The Army is currently making plans to conduct a CERCLA Site Investigation at this site.

Consensus: All parties were in agreement prior to the 21-22 Sept meeting.

Classifications: NYSDEC-AOC, Army-Concur, USEPA-deferred to earlier meeting.

SEAD-13: Inhibited Red Fuming Nitric Acid (IRFNA) Disposal Site.

Background: Limestone-lined pits were used to neutralize unserviceable IRFNA. The pits were formed using a bulldozer which scraped soil down to a shale stratum four feet below grade. Limestone was placed in the pits to a depth of approximately 2.5 feet. The sides of the pits were also covered with limestone. A stainless steel ejector, operated by water pressure, was fitted into a barrel with water flowing through the ejector. The ejector discharged a mixture of water and IRFNA through a long polyethylene hose under the water surface in the pit being used.

Summary of Discussions: Limited. This unit is currently being addressed under the Workplan for CERCLA Investigation of Eleven Solid Waste Management Units (MAIN/ January 1992).

Consensus: All parties were in agreement prior to the 21-22 Sept 92 meetings.

Classifications: NYSDEC-AOC, Army-Concur, USEPA-Differed to earlier meeting.

SEAD-14: Refuse Burning Pits (2 Units).

Background: Refuse was dumped into the pits and burned at least once per week. Metal was removed for recycling, and the ash was pushed into the adjacent ash landfill.

Summary of Discussions: This SWMU is part of the Ash Landfill Operable Unit currently being addressed in RI/FS.

Consensus: All parties in agreement prior to meetings

Classification: NYSDEC-AOC, Army-Concur, USEPA-Differed to earlier meeting.

SEAD-15: Building 2207- Abandoned Solid Waste Incinerator.

Background: The municipal incinerator was a multiple chamber, batch-fed, 2,000 lb/hr capacity unit designed to burn a mixture of rubbish and garbage. Depot refuse was incinerated once per week. Approximately 18 tons of refuse per week were generated; some of this quantity was disposed in the non-combustible fill area (SEAD-8). The incinerator operated from 1974 to 1979, when a fire destroyed the facility.

Summary of Discussions: Limited. This unit is a part of the Ash Landfill Operable unit currently being addressed in a RI/FS.

Consensus: All parties in agreement prior to meetings

Classification: NYSDEC-AOC, Army-Concur, EPA-Differed to earlier meeting.

SEAD-16: Abandoned Deactivation Furnace.

Background: Small arms and possibly bulk munitions were destroyed by incineration. No air pollution or dust control devices were installed. The pipes located above the building may have conveyed propellants. Propellants may have been also been stored in the building.

Summary of Discussions: Limited. This SWMU is currently being addressed under the Workplan for CERCLA Investigation of Eleven Solid Waste Management Units (MAIN/January 1992). This workplan is under review by USEPA.

Consensus: All parties in agreement prior to meetings.

Classifications: NYSDEC-AOC, Army-Concur.

SEAD-17: Building 367-Existing Deactivation Furnace

Background: The deactivation furnace incinerates small arms ammunition, and is regulated as a hazardous waste incinerator. The munitions are processed in a rotary kiln, and the air which is discharged from the kiln is further processed in an afterburner and filtered to meet air discharge limitations. The furnace has been inactive since 1989; the permitting process and a trial burn test are to be completed prior to operation.

Summary of Discussions: Limited. This SWMU is currently being addressed under the Workplan for CERCLA Investigation of Eleven Solid Waste Management Units (MAIN/January 1992). This workplan is currently under EPA review.

Consensus: All parties in agreement prior to meetings

Classifications: NYSDEC-AOC, Army-Concur

SEAD-18&19: Classified Document Incinerators.

Background: Classified documents have been incinerated in these to incinerators since 1956. One incinerator was replaced at the same location in 1983. These are operated under state air permits. Infectious wastes were incinerated occasionally in SEAD-18 prior to the state regulation of infectious wastes.

Summary of Discussions: The nature of past document burning in these incinerators, including types of paper burned, volumes, and incinerator specifications were discussed.

Consensus: The Army is not required to provide any additional information in support of these units' classification.

Classification: NYSDEC-No Action, Army-Concur

SEAD-20&21: Sewage Treatment Plants No. 4, 715

Background: No.4 is a 250,000 gallon per day plant, which includes a wetlands where tertiary treatment is accomplished. No. 715 is a 750,000 gallon per day plant.

Summary of Discussions: The Army asserted that reevaluating Sewage treatment plants that are regulated and in compliance with the NYSDEC SPDES program is unwarranted. The NYSDEC acknowledged and reviewed the SPDES permit effluent limitations provided in the SCR.

Consensus: The Army is not required to provide any additional information in support of this units classification.

Classification: NYSDEC-NO ACTION, ARMY-Concur.

SEAD-22: Sewage Treatment Plant No. 314

Background: This is an abandoned sewage treatment plant. The building is currently used as a lift station which pumps sewage to sewage treatment plant No. 4.

Summary of Discussions/Consensus/Classification: Same as SEAD-20,21.



SEAD-23: Open Burning Grounds.

Background: The open burning grounds consists of nine burning pads on approximately 30 acres. The burning pads have been used from the late 1950's until 1987, when the burning tray was constructed.

Summary of Discussions: Limited. This SWMU has graduated to the operable unit stage, and is currently being addressed in by a RI/FS.

Consensus: All parties in were in agreement prior to the 21-22 Sept 92 meetings.

Classification: NYSDEC-AOC, Army-Concur.

SEAD-24: Abandoned Powder Burning Pit.

Background: This powder burning area was operated during the 1940's and 1950's. It is a U-shaped 4-foot high berm approximately 150 feet across and 325 feet long. Presumably, this may have been used for burning explosives from the washout plant, due to the probable dates of operation.

Summary of Discussions: Limited. This SWMU is currently being addressed under the Workplan for CERCLA Investigation of Eleven Solid Waste Management Units (MAIN/January 1992). This workplan is under EPA review.

Consensus: All parties were in agreement prior to the 21-22 SEPT 92 meetings.

Classifications: NYSDEC-AOC, Army-Concur

SEAD-25: Fire Training and Demonstration Pad.

Background: The pad was previously used for fire control training, but it is now used once or twice a year for fire fighting demonstrations.

Summary of Discussions: Limited. This unit is currently being addressed under the Workplan for CERCLA Investigation of Eleven Solid Waste Management Units (MAIN January 1992). This workplan is currently under EPA review.

Consensus: All parties were in agreement prior to the 21-22 Sept 92 meeting.

Classifications: NYSDEC-AOC, Army-Concur.

SEAD-26: Fire Training Pit.

Background: The fire training pit is approximately 75 feet in diameter and approximately 3 feet deep. A bentonite liner was installed in 1982 or 1983. The fire training area is approximately 6 acres.

Summary of Discussions: Limited. This unit will currently be addressed under the Workplan for CERCLA Investigation of Eleven Solid Waste Management Units (MAIN/ 1992). This workplan is currently under EPA review.

Consensus: All parties were in agreement prior to the 21-22 Sept 92 meeting.

Classifications: NYSDEC-AOC, Army-Concur.

SEAD-27: Steam Cleaning Waste Tank.

Background: This is an open top, concrete tank with a grate over the top. Steam cleaning of industrial plant equipment occurred over the tank, where the wastewater drained into the tank. The tank is currently undergoing clean closure as a hazardous waste tank.

Summary of Discussions: SEAD agreed to provide the NYSDEC with sampling and analysis results when generated. If significant soil or groundwater contamination is encountered, cleanup of this site will be deferred to the CERCLA/IAG cleanup process.

Consensus: The Army will include results in the revised SCR. SEAD-27 will continue to be addressed under supervision of NYSDEC RCRA authorities. SEAD will strive to complete the closure process in time to avoid SCR finalization delays.

Classification: NYSDEC-Reserved, ARMY-Concur

SEAD-28: Building 360- Underground Waste Oil Tanks.

Background: Two fiberglass, 2,130-gallon underground waste oil tanks are located near building 360. These tanks are used for storage of waste oil prior to burning for energy recovery as a used oil fuel in Seneca's utility boilers.

Summary of Discussions: The type of fuel stored in, tank type (fiberglass or steel), and fuel capacity of this tank were reviewed.

Consensus: Seneca will submit to the NYSDEC tank tightness results dated 1988. If the tightness results indicate that the tank has not leaked, NYSDEC will consider SEAD-28 a no action SWMU.

Classification: NYSDEC-Reserved, Army-Concur

SEAD-29: Building 732-Underground Waste Oil Tank.

Background: This is a 550 gallon fiberglass waste oil which is managed in the same manner as SEAD-28.

Summary of Discussion: The type of fuel stored in, tank type (fiberglass or steal), and fuel capacity of this tank were reviewed.

Consensus: Seneca will schedule this 1982 fiberglass tank for tightness testing in the near future. The results of this test will be included in the revised SCR and will subsequently determine SEAD-29's classification.

Classification: NYSDEC-AOC, ARMY- concur.

SEAD-30: Building 118- Underground Waste Oil Tank.

Background: This is a 550 gallon steel waste oil tank.

Summary of Discussions: The type of fuel stored in, tank type (fiberglass or steal), and fuel capacity of this tank were reviewed. This tank is scheduled for removal in the near future by the SEAD in house tank removal team. This tank is known to have taken on water, and leakage is expected to have occurred. SEAD explained that the removal will be undertaken in unison with NYSDEC region 8 regulatory authorities.

Consensus: Analytical results generated post removal will dictate this units classification. The results will be forwarded to NYSDEC Federal Facilities.

Classification: NYSDEC-Reserved.

SEAD-31: Building 117- Underground Waste Oil Tank.

Background: This is a 2,130 gallon fiberglass waste oil tank which is managed like the above.

Summary of Discussions: The type of fuel stored in, tank type (fiberglass or steal), and fuel capacity of this tank were reviewed.

Consensus: Seneca will submit to the NYSDEC tank tightness results dated 1988. If the tightness results indicate that the tank has not leaked, NYSDEC will consider SEAD-28 a no action SWMU.

Classification: NYSDEC-Reserved, Army-Concur.

SEAD-32: Building 718- Underground Waste Oil Tanks(2).

Background: These tanks are of 40,000 and 20,000 gallon capacity, and the waste oil from the accumulation waste oil tanks (SEAD 28-31) is mixed with the virgin oil (no. 6) in these tanks.

Summary of Discussions: The type of fuel stored in, tank type (fiberglass or steel), and fuel capacity of this tank were reviewed. The oil is burned in boilers to generate steam used for heating buildings. The Army stated that tightness testing of tanks containing number 6 fuel oil is technologically infeasible and not required under 6 NYCRR Part 613.5 and 40 CFR Part 266.

Consensus: Limited sampling will consist of installing four 1.5 inch ground water monitoring wells and collecting and analyzing groundwater samples.

Classification: NYSDEC-Reserved, Army-Concur.

SEAD-33: Building 121- Underground Waste Oil Tank.

Background: This is a 30,000 gallon steel tank which contains no. 6 virgin oil. Waste oil was mixed in this tank, similar to the tanks at building 718 (SEAD-32).

Summary of Discussions: Same as for building 718 (SEAD-32).

Consensus: Limited sampling will consist of installing four 1.5 inch ground water monitoring wells and collecting and analyzing groundwater samples.

Classification: NYSDEC-Reserved, Army-Concur.

SEAD-34: Building 319- Underground Waste Oil Tanks.

Background: Same as SEAD 32, 33.

Summary of Discussions: Same as SEAD 32,33.

Consensus: Limited sampling will consist of installing four 1.5 inch ground water monitoring wells and collecting analyzing groundwater samples.

Classification: NYSDEC-Reserved, Army-Concur.

SEAD-35: Building 718-Waste Oil-Burning Boilers.

Background: The three boilers in this boiler house each have a capacity of 10 MBtu/hr. These are Solid Waste Management Units by definition, since they burn fuel which has waste oil mixed in it.

Summary of Discussions: SCR photographs of the building 718 Waste oil burning boilers were inspected. Design features including capacity ratings and boiler combustion rates were reviewed.

Consensus: No additional information, sampling or documentation is required.

Classification: NYSDEC- No Action, Army- concur.

SEAD-36: Building 121-Waste Oil-Burning Boilers.

Background: There are two boilers in this building which were used in the same manner as building 718 (SEAD-35). The capacity of these boilers is 6.6 Mbtu/hr.

Summary of Discussions: SCR photographs of the building 121 Waste oil burning boilers were inspected. Design features including capacity ratings and boiler combustion rates were reviewed.

Consensus: No additional information, sampling or documentation is required.

Classification: NYSDEC- No Action, Army- concur.

SEAD-37: Building 319-Waste Oil-Burning Boilers.

Background: Same as buildings 718, 121. The capacity of the two boilers in building 319 are 12.0 and 16.1 Mbtu/hr.

Summary of Discussions: SCR photographs of the building 319 Waste oil burning boilers were inspected. Design features including capacity ratings and boiler combustion rates were reviewed.

Consensus: No additional information, sampling or documentation is required.

Classification: NYSDEC- No Action, Army- concur.

SEAD-38: Building 2079-Boiler Plant Blowdown Leach Pit.

Background: Boiler blowdown which probably contained tannins, caustic soda, and sodium phosphate was discharged to leach pits.

Summary of Discussions: Current and historical operating practices were reviewed.

Consensus: A limited sampling effort is warranted. This SWMU will be classified based on these sampling results.

Classification: NYSDEC-Reserved, Army-Concur.

SEAD-39: Building 121-Boiler Plant Blowdown Leach Pit.

Background: Same as SEAD-38 for boiler blowdown leach pits.

Summary of Discussions: Current and historical operating practices were reviewed.

Consensus: A limited sampling effort is warranted. This SWMU will be classified based on these sampling results.

Classification: NYSDEC-Reserved, Army-Concur.

SEAD-40: Building 319-Boiler Plant Blowdown Leach Pit.

Background: Same as SEADs 38, 39 .

Summary of Discussions: Current and historical operating practices were reviewed.

Consensus: A limited sampling effort is warranted. This SWMU will be classified based on these sampling results.

Classification : NYSDEC-Reserved, Army-Concur.

SEAD-41: Building 718- Boiler Plant Blowdown Leach Pit.

Background: Same as SEADs 38,39,40.

Summary of Discussions: Current and historical operating practices were reviewed.

Consensus: A limited sampling effort is warranted. This SWMU will be classified based on these sampling results.

Classification: NYSDEC-Reserved, Army-Concur.

SEAD-42: Building 106-Preventive Medicine Laboratory.

Background: The 1980 USATHAMA report indicated that clinical laboratory work and potable water analyses were performed in the laboratory. Personnel that were interviewed stated that they were unaware of this laboratory, and that potable water analyses were shipped to Fort Drum for analysis.

Summary of Discussions: Operating practices at the SEAD preventative Medicine laboratory were reviewed. The volume and nature of infectious waste generated was discussed, as well as disposal practices consistent with applicable regulations. SEAD restated that no materials containing radioactive isotope are utilized, generated, or disposed of the clinical laboratory.

Consensus: The Army is not required to provide any additional information, conduct any sampling, or provide further documentation.

Classification: NYSDEC- No Action, Army-Concur.

SEAD-43: Old Missile Propellant Test Laboratory.

Background: This test facility reportedly had operated in the 1960's. Building 606 is presently used for herbicide and pesticide storage.

Summary of Discussions: Limited. This unit will be addressed in Future CERCLA Site Investigations. The fact that SEAD-43, SEAD-56 and SEAD-69 are located in the same geographical area was discussed.

Consensus: Uncertainties associated with former operations at this site warrants investigation. SEAD -43, 56, and 69 should remain classified as individual units for purposes of the SCR. The Area will be addressed cumulatively as an AOC for purposes of the Army's planned CERCLA site investigation workplan.

Classification: NYSDEC-AOC, Army-Concur.

SEAD-44: Quality Assurance Test Laboratory.

Background: This area was reportedly used for quality assurance testing of tear gas grenades, firing devices, and pyrotechnics.

Summary of Discussions: Limited. The Army is currently making plans to conduct CERCLA site investigations at this site.

Consensus: All parties were in agreement prior to meetings.

Classifications: NYSDEC-AOC, Army-Concur.

SEAD-45: Demolition Area.

Background: This area is used for the open detonation of explosives. This facility is regulated as a hazardous waste treatment unit.

Summary of Discussions: Limited. This unit is being addressed under the Workplan for CERCLA Investigation of Eleven Solid Waste Management Units (MAIN/January 1992).

Consensus: All parties in agreement prior to meetings.

Classifications: NYSDEC-AOC, Army-Concur.

SEAD-46: Small Arms Range.

Background: The range was used for testing fire tracers, anti-tank rockets, etc. which were fired into a earthen berm.

Summary of Discussions: Limited. This unit is scheduled to be addressed under a future Workplan for conducting a CERCLA Site Investigation. Both locations of SEAD -48 were visited by the NYSDEC and USEPA representatives named in the list of attenders. The Circular Berm location is not described in the SCR (ERCE April 12 1991 ), since the berm was recently discovered by Depot officials.

Consensus: All parties were in agreement regarding this units classification prior to meetings. The Army agreed to investigate the Area for unexploded ordinance (rockets) and associated contamination, not spent small arms casings and bullets

Classifications: NYSDEC-AOC, Army-Concur.

SEAD-47: Building 321 and 806-Radiation Calibration Source Storage.

Background: Radiation calibration sources are stored on these buildings. These buildings were identified in the 1980 USATHAMA report as "known or suspected waste materials".

Summary of Discussions: The nature of radiation calibration material storage at SEAD-47 was detailed. The range of radioactivity associated with the calibration sources is in the range of micrograms of solid material. Marsden Chen, NYSDEC, reported that he currently as a similar calibration device on his Desk at work.

Consensus: The extremely low level materials pose no human health or environmental risk at buildings 321 and 806.

Classifications: NYSDEC-no -action, Army-Concur.



SEAD-48: Pitchblende Storage Igloos.

Background: For a brief period in the 1940's, the eleven munition igloos were used for storage of approximately 2,000 barrels of pitchblende ore. Later on, the pitchblende ore was removed and conventional munition was stored in the igloos until approximately 1979. The igloos were empty until they were cleaned up in 1986.

Summary of discussions: NYSDEC requested a review of data generated for the closeout report for the previous cleanup. This Data will be reevaluated by NYSDEC. A NYSDEC radiation expert may conduct a limited radiological scan of SEAD-48. NYSDEC Federal Facilities branch will consult NYSDEC radiological authorities regarding SEAD-48.

Consensus: SEAD will submit to NYSDEC the close out report for the previously conducted cleanup of the E-800 row. The Army has not been recommended to conduct any additional sampling at this time. NYSDEC will contact SEAD regarding its interpretation of the close out report data. All follow up actions conducted by the Army and NYSDEC will be done in a manor consistent with the schedule for SCR finalization.

Classifications: NYSDEC-Reserved, SEAD-Concur.

SEAD-49: Columbite Ore Storage.

Background: Columbite ore, a mixture of the oxides of iron, manganese, niobium, and tantalum, has been stored in three warehouses since 1954. Columbite ore is naturally radioactive, since naturally occurring radioactive elements are found in this ore; radon may also be emitted.

Summary of Discussions: Limited sampling of the columbite ore storage facility was discussed, including naturally occurring interferences to radiological surveys (i.e. radon gas)

Consensus: The Army will conduct limited sampling at building 356. The results of the limited sampling effort will be used in determining this units final classification.

Classifications: NYSDEC-Reserved, Army-Concur.

SEAD-50: Tank Farm.

Background: Approximately 60 aboveground storage tanks, of which four currently exist, were used for storage of ores, which included antimony, rutile, asbestos, and silicon carbide. The existing tanks store antimony, and asbestos.

Summary of Discussions: Limited. This unit is scheduled to be addressed under a future Workplan for conducting a CERCLA Site Investigation. SEAD-50 will be combined with SEAD-54 as a single AOC in future site Investigation Workplans. The two units will remain as separate SWMU's in the SCR.

Consensus: All parties were in agreement regarding this units classification prior to meetings.

Classifications: NYSDEC: AOC , Army-Concur.

SEAD-51: Herbicide Usage-Perimeter of High Security Area.

Background: The perimeter of the exclusion area in the northern part of the depot has been treated in the past with a variety of herbicides.

Summary of Discussions: The NYSDEC will consult with relevant NYSDEC FIFRA regulatory authorities. The Army will supply the NYSDEC with three reports that pertain to pesticide use around the high security area. SEAD agreed to supply NYSDEC with a material safety data sheet for Boracil. SEAD's use of integrated pest management, and the SEAD pest management plan was noted.

Consensus: The NYSDEC and NYSDOH recommended that at a minimum, limited sampling be performed at this site, in conjunction with consultation by NYSDEC federal Facilities with NYSDEC FIFRA authorities and review of further documentation supplied by the Army. Future use of this site was mentioned in relation to possible contamination.

Classification: NYSDEC-Reserved, Army-Concur.

SEAD-52: Ammunition Breakdown Area.

Background: These buildings are used for the breakdown of ammunition. The materials handled here are not considered wastes. If the materials become obsolete, they are taken to the demolition grounds.

Summary of Discussions: SEAD provided an overview of the munitions breakdown and maintenance operations at SEAD-52, which included a site visit of building 612 and adjacent storage buildings.

Consensus: Although building 612 does not warrant further investigation, limited sampling of soil adjacent to storage buildings 608, 610 , and 611 should be conducted.

Classification: NYSDEC-Reserved, Army-Concur.

SEAD-53: Munitions Storage Igloos

Background: The igloos are used for storage of munitions supplies.

Summary of Discussions: The Army asserted that munitions storage igloos are used for product storage and by definition should not be considered solid waste management units. The Army and EPA policy regarding the issue of when, a munitions becomes a waste, was briefly discussed. Typical munitions storage igloo design specifications were reviewed. Potential release (i.e munitions spillage) and migration scenarios were hypothesized. The Army emphasized that any release, migration, and exposure scenario is difficult to comprehend, especially in light of the igloos thick cement design.

Consensus: The NYSDEC maintains that a release from a storage igloo must not be completely ruled out, and prefers to keep the issue of future investigation of SEAD munitions igloos open. NYSDEC requested that the storage igloos be a low priority for further investigation. NYSDEC agreed to allow a no action classification in the SCR, provided the Army qualify this classification by stating the issue of investigation storage igloos may be revisited should further information regarding a release become available.

Classification: NYSDEC-No Action (but qualified), Army (concur).

SEAD-55: Tannin Storage.

Background: Tannin Is stored in a warehouse as a bagged powder. Tannin is a dry form of tannic acid, used in tanning leather, a food additive, and other use.

Summary of Discussion: The tannin storage site was visited by the list of meeting attenders. Tannin, is nether a listed hazardous waste or substance.

Consensus: The Army is not required to required to provide any additional information in support of this units classification.

Classification: NYSDEC: No Action, Army-Concur.

SEAD-56: Herbicide and Pesticide Storage-Building 606.

Background: Building 606 is currently used for storage of herbicides and pesticides.

Summary of Discussions: The Army and the NYSDEC agreed that SEAD-43, SEAD-56 and SEAD-69 will be addressed as a single area of concern in a future CERCLA site investigation workplan.

Consensus: SEAD-43, 56, and 69 will remain classified as individual units for purposes of the SCR. The Area will be addressed cumulatively as an AOC for purposes of the future CERCLA site investigation workplan.

Classification: NYSDEC-AOC, Army-Concur.

SEAD-57: Explosive Ordnance Disposal Area.

Background: This area is used for training the depot's EOD unit. In the past, the area was used for disposal of recovered items.

Summary of Discussions:

Limited. This unit will currently be addressed under the Workplan for CERCLA Investigation of Eleven Solid Waste Management Units January/1992.

Consensus: All parties in agreement prior to meetings.

Classifications: NYSDC-AOC, Army-Concur.

SEAD-58: Debris Area Near Booster Station 2131.

Background: This site was discovered from the helicopter in February, 1990. The debris area reportedly contains cans which contain DDT.

Summary of Discussions: Limited. This unit is scheduled to be addressed under a future Workplan for conducting a CERCLA Site Investigation.

Consensus: All parties were in agreement prior to meetings.

Classifications: NYSDC-AOC, Army-Concur.

SEAD-59: Fill Area West of Building 135.

Background: This area was potentially used for the disposal of construction debris.

Summary of Discussions: Limited. This unit is scheduled to be addressed under a future Workplan for conducting a CERCLA Site Investigation.

Consensus: All parties were in agreement prior to meetings.

Classifications: NYSDEC-AOC, Army-Concur.

SEAD-60: Oil Discharge Adjacent to Buildings 609

Background: Oil apparently was discharged from a pipe which came from within the building.

Summary of Discussions: Limited. This unit is scheduled to be addressed under a future Workplan for conducting a CERCLA Site Investigation.

Consensus: All parties were in agreement prior to meetings.

Classifications: NYSDEC-AOC, Army-Concur.

SEAD-61: Building 718 - Underground Waste Oil Tank

Background: A 10,000 gallon, underground waste oil tank is used for the storage of waste oil prior to burning in the boilers.

Summary of Discussions: Limited. This is a double wall fiberglass tank installed in 1989

Consensus: All parties were in agreement prior to meeting.

Classifications: NYSDEC -No Action, Army-Concur.

SEAD-62: Nicotine Sulfate Disposal Area Near Buildings 606/612.

Background: Some drums of this were reportedly buried in this area.

Summary of Discussions: Limited. This unit is scheduled to be addressed under a future Workplan for conducting a CERCLA Site Investigation.

Consensus: All parties were in agreement prior to meetings.

Classifications: NYSDEC-AOC, Army-Concur.

SEAD-63: Miscellaneous Components Burial Site.

Background: Inert materials, i.e. classified parts, were buried in pits.

Summary of Discussions: Limited. This unit is scheduled to be addressed under a future Workplan for conducting a CERCLA Site Investigation.

Consensus: All parties were in agreement prior to meetings.

Classifications: NYSDC-AOC, Army-Concur.

SEAD-64: Garbage Disposal Areas.

Background: Four locations on the depot were reportedly used for garage disposal during periods when the municipal incinerator was inoperable.

Summary of Discussions: Limited. This unit is scheduled to be addressed under a future Workplan for conducting a CERCLA Site Investigation.

Consensus: All parties were in agreement prior to meetings.

Classifications: NYSDC-AOC, Army-Concur.

SEAD-65: Acid Storage Areas.

Background: It was reported that acid was stored in two areas located south of the truck entrance gate on route 96A.

Summary of Discussions: This site was visited by the list of attenders. Sulfuric Acid was believed stored at this site.

Consensus: The Army is not to required to provide any additional information in support of this units classification.

Classification: NYSDEC-No Action, Army-Concur.

SEAD-66: Pesticide Storage Near Buildings 5 and 6

Background: It was reported that pesticides were stored outside near these buildings.

Summary of Discussions: This site was visited by the list of attenders.

Consensus: NYSDEC recommended limited sampling at this site.

Classification: NYSDEC-Reserved, Army-concur.

SEAD-67: Dump Site East of Sewage Treatment Plant No. 4.

Background: It was reported that an area near this facility was used for dumping. Piles, covered with vegetation, were observed in this area.

Summary of Discussions: Limited. This unit is scheduled to be addressed under a future Workplan for conducting a CERCLA Site Investigation.

Consensus: All parties were in agreement prior to meetings.

Classifications: NYSDC-AOC, Army-Concur.

SEAD-68: Building S-335 - Old Pest Control Shop

Background: It was reported that a pest control shop was once located in this building.

Summary of Discussions: Limited. This unit is scheduled to be addressed under a future Workplan for conducting a CERCLA Site Investigation.

Consensus: All parties were in agreement prior to meetings.

Classifications: NYSDC-AOC, Army-Concur.

SEAD-69: Building 606 - Disposal Area.

Background: SEAD personnel reported that debris was dumped in an area located southeast of this building.

Summary of Discussions: The Army and the NYSDEC agreed that SEAD-43, SEAD-56 and SEAD-69 will be addressed as a single area of concern in a future CERCLA site investigation workplan.

Consensus: SEAD-43, 56, and 69 will remain classified as individual units for purposes of the SCR. The Area will be addressed cumulatively as an AOC for purposes of the future CERCLA site investigation workplan.

Classification: NYSDEC-AOC, Army-Concur.

SEAD-70: Building 2110 Fill Area.

Background: A landfill area was found near this building after the draft SWMU Classification Study was prepared.

Summary of discussions: Limited. The Army feels this site should be investigated further because of past waste disposal uncertainties.

Consensus: Further Investigation is required.

Classifications: NYSDEC-AOC, Army-concur.

SEAD-71: Alleged Paint Disposal Area.

Background: Paints and solvents were reportedly buried in a location near building 127, according to a retired depot employee.

Summary of Discussions: Limited. The Army feels this site should be investigated further because of past waste disposal uncertainties. This unite was recently listed based on a report of an retiring employee.

Consensus: Further investigations are required.

Classification: NYSDEC-AOC, Army-AOC.

SEAD-72: Mixed Waste Storage Facility Building 803.

Background: This building is used to store mixed waste prior to disposal off-site. The mixed waste includes swipes which have radioactive contamination and hazardous solvent contamination.

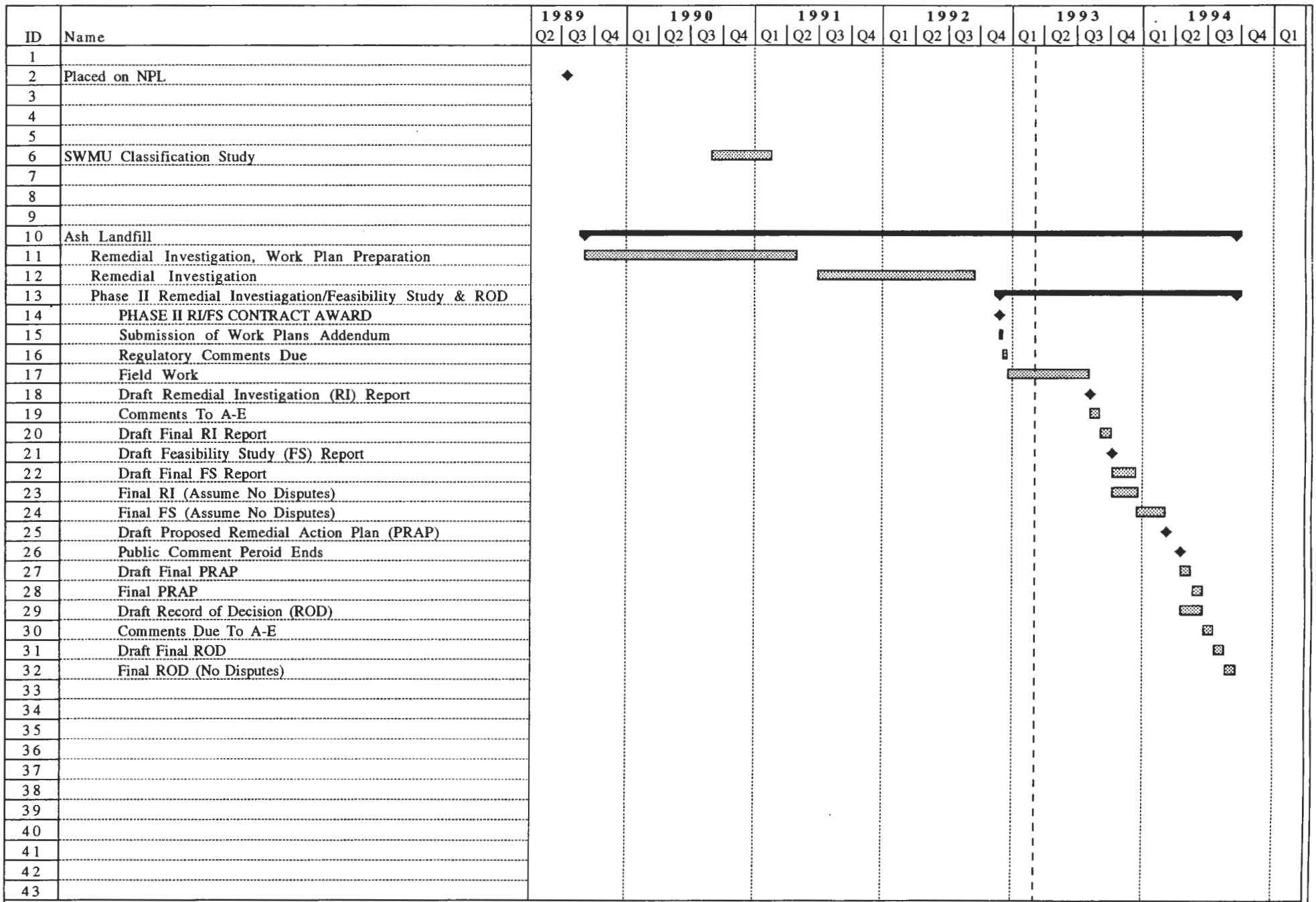
Summary of Discussions: Historical use, regulation, compliance information, and building designs and specifications for this facility were scrutinized.

Consensus: NYSDEC Federal Facilities will consult with applicable NYSDEC RCRA compliance authorities. The Army is not required to supply any additional information at this time. Upon consulting RCRA authorities, NYSDEC Federal Facilities will inform SEAD of its recommended classification for SEAD-72. This task will be performed expeditiously, so that the SCR can be updated accordingly.

Classification: NYSDEC-Reserved, Army-Concur, USEPA-(not present).



# APPENDIX B



Project: SENECA ARMY DEPOT  
Date: 3/4/93

Critical  Noncritical  Progress  Milestone  Summary 



ID	Name	1989			1990				1991				1992				1993				1994				Q1
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
87																									
88																									
89																									
90	Moderate Priority AOC's																								
91	Work Plan Preparation																								
92	WORK PLAN PREPARATION, CONTRACT AWARD																								
93	Site Visit / Records Review																								
94	Preliminary Work Plans																								
95	Comments																								
96	Draft Work Plans																								
97	Comments																								
98	Draft Final Work Plans																								
99	Comments (No Disputes)																								
100	Final Work Plan (No Disputes)																								
101																									
102																									
103																									
104	Ground Water Monitoring																								
105	CONTRACT AWARDED																								
106	OPTION 1-6 AWARDED																								
107	Initial Monitoring Episode																								
108	Report Submission																								
109	First Optional Monitoring episode																								
110	Report Submission																								
111	Second Optional Monitoring episode																								
112	Report Submission																								
113	Third Optional Monitoring episode																								
114	Report Submission																								
115	Fourth Optional Monitoring episode																								
116	Report Submission																								

Project: SENECA ARMY DEPOT  
Date: 3/4/93

Critical  Noncritical  Progress  Milestone  Summary 

ID	Name	Duration	Scheduled Star	Scheduled Finist	Predecessors	Resource Names
1						
2	Placed on NPL	0d	Thu 7/13/89	Thu 7/13/89		
3						
4						
5						
6	SWMU Classification Study	177d	Thu 8/23/90	Fri 2/15/91		
7						
8						
9						
10	Ash Landfill	1841.38ed	Thu 8/31/89	Thu 9/15/94		
11	Remedial Investigation, Work Plan Preparation	608d	Thu 8/31/89	Tue 4/30/91		
12	Remedial Investigation	445d	Tue 6/25/91	Fri 9/11/92		
13	Phase II Remedial Investigation/Feasibility Study & ROD	664.38ed	Fri 11/20/92	Thu 9/15/94		
14	PHASE II RI/FS CONTRACT AWARD	0d	Fri 11/20/92	Fri 11/20/92		
15	Submission of Work Plans Addendum	12d	Fri 11/20/92	Tue 12/1/92	14	
16	Regulatory Comments Due	14d	Wed 12/2/92	Tue 12/15/92	15	
17	Field Work	230d	Wed 12/16/92	Mon 8/2/93	16	
18	Draft Remedial Investigation (RI) Report	0d	Mon 8/2/93	Mon 8/2/93	17	
19	Comments To A-E	31d	Tue 8/3/93	Thu 9/2/93	18	
20	Draft Final RI Report	32d	Fri 9/3/93	Mon 10/4/93	19	
21	Draft Feasibility Study (FS) Report	0d	Mon 10/4/93	Mon 10/4/93	20	
22	Draft Final FS Report	70d	Tue 10/5/93	Mon 12/13/93	21	
23	Final RI (Assume No Disputes)	75d	Tue 10/5/93	Sat 12/18/93	20	
24	Final FS (Assume No Disputes)	83d	Tue 12/14/93	Sun 3/6/94	22	
25	Draft Proposed Remedial Action Plan (PRAP)	0d	Sun 3/6/94	Sun 3/6/94	24	
26	Public Comment Peroid Ends	0d	Fri 4/15/94	Fri 4/15/94		
27	Draft Final PRAP	31d	Fri 4/15/94	Sun 5/15/94	26	
28	Final PRAP	31d	Mon 5/16/94	Wed 6/15/94	27	
29	Draft Record of Decision (ROD)	62d	Fri 4/15/94	Wed 6/15/94	26	
30	Comments Due To A-E	30d	Thu 6/16/94	Fri 7/15/94	29	
31	Draft Final ROD	31d	Sat 7/16/94	Mon 8/15/94	30	
32	Final ROD (No Disputes)	31d	Tue 8/16/94	Thu 9/15/94	31	
33						
34						
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41						
42						
43						
44						
45	Open Burn Grounds	1891.38ed	Thu 7/13/89	Fri 9/16/94		
46	Remedial Investigation, Work Plan Preparation	304d	Thu 7/13/89	Sat 5/12/90		
47	Remedial Investigation	463d	Thu 6/27/91	Thu 10/1/92		
48	Phase II Remedial Investigation/Feasibility Study	665.38ed	Fri 11/20/92	Fri 9/16/94		
49	PHASE II RI/FS CONTRACT AWARD	0d	Fri 11/20/92	Fri 11/20/92		
50	Submission of Work Plans Addendum	12d	Fri 11/20/92	Tue 12/1/92	49	
51	Regulatory Comments Due	14d	Wed 12/2/92	Tue 12/15/92	50	
52	Field Work	237d	Wed 12/16/92	Mon 8/9/93	51	
53	Draft Remedial Investigation (RI) Report	0d	Mon 8/9/93	Mon 8/9/93	52	
54	Draft Feasibility Study (FS) Report	60d	Tue 8/10/93	Fri 10/8/93	53	
55	Draft Final RI Report	65d	Tue 8/10/93	Wed 10/13/93	53	
56	Draft Final FS Report	70d	Sat 10/9/93	Fri 12/17/93	54	
57	Final RI (Assume No Disputes)	83d	Thu 10/14/93	Tue 1/4/94	55	
58	Final FS (Assume No Disputes)	77d	Sat 12/18/93	Fri 3/4/94	56	
59	Draft Proposed Remedial Action Plan (PRAP)	0d	Fri 3/4/94	Fri 3/4/94	58	
60	Public Comment Peroid Ends	0d	Fri 4/15/94	Fri 4/15/94		
61	Draft Final PRAP	31d	Fri 4/15/94	Sun 5/15/94	60	
62	Final PRAP	32d	Mon 5/16/94	Thu 6/16/94	61	
63	Draft Record of Decision (ROD)	63d	Fri 4/15/94	Thu 6/16/94	60	
64	Comments Due To A-E	30d	Fri 6/17/94	Sat 7/16/94	63	
65	Draft Final ROD	31d	Sun 7/17/94	Tue 8/16/94	64	
66	Final ROD (No Disputes)	31d	Wed 8/17/94	Fri 9/16/94	65	
67						
68						
69						

ID	Name	Duration	Scheduled Star	Scheduled Finisr	Predecessors	Resource Names
70						
71						
72						
73						
74	10 High Priority AOC's	1023.38ed	Thu 6/27/91	Fri 4/15/94		
75	Work Plan Preparation	614d	Thu 6/27/91	Mon 3/1/93		
76	Site Investigation	534.38ed	Wed 10/28/92	Fri 4/15/94		
77	SITE INVESTIGATION CONTRACT AWARDED	0d	Wed 10/28/92	Wed 10/28/92		
78	Field Work SI	124d	Sat 5/1/93	Wed 9/1/93	77	
79	Preliminary Draft SI report	61d	Thu 9/2/93	Mon 11/1/93	78	
80	Comments to A-E	20d	Tue 11/2/93	Sun 11/21/93	79	
81	Draft SI Report	24d	Mon 11/22/93	Wed 12/15/93	80	
82	Comments to A-E	48d	Thu 12/16/93	Tue 2/1/94	81	
83	Draft Final SI Report	42d	Wed 2/2/94	Tue 3/15/94	82	
84	Final SI Report	31d	Wed 3/16/94	Fri 4/15/94	83	
85						
86						
87						
88						
89						
90	Moderate Priority AOC's	222.38ed	Fri 11/20/92	Wed 6/30/93		
91	Work Plan Preparation	222.38ed	Fri 11/20/92	Wed 6/30/93		
92	WORK PLAN PREPARATION, CONTRACT AWARD	0d	Fri 11/20/92	Fri 11/20/92		
93	Site Visit / Records Review	8d	Mon 1/4/93	Mon 1/11/93		
94	Preliminary Work Plans	30d	Tue 1/12/93	Wed 2/10/93	93	
95	Comments	28d	Thu 2/11/93	Wed 3/10/93	94	
96	Draft Work Plans	31d	Thu 3/11/93	Sat 4/10/93	95	
97	Comments	30d	Sun 4/11/93	Mon 5/10/93	96	
98	Draft Final Work Plans	22d	Tue 5/11/93	Tue 6/1/93	97	
99	Comments (No Disputes)	29d	Wed 6/2/93	Wed 6/30/93	98	
100	Final Work Plan (No Disputes)	0d	Wed 6/30/93	Wed 6/30/93	99	
101						
102						
103						
104	Ground Water Monitoring	503.38ed	Wed 10/28/92	Tue 3/15/94		
105	CONTRACT AWARDED	0d	Wed 10/28/92	Wed 10/28/92		
106	OPTION 1-6 AWARDED	0d	Thu 12/31/92	Thu 12/31/92		
107	Initial Monitoring Episode	44d	Sun 1/31/93	Mon 3/15/93		
108	Report Submission	0d	Mon 3/15/93	Mon 3/15/93	107	
109	First Optional Monitoring episode	47d	Fri 4/30/93	Tue 6/15/93		
110	Report Submission	0d	Tue 6/15/93	Tue 6/15/93	109	
111	Second Optional Monitoring episode	47d	Sat 7/31/93	Wed 9/15/93		
112	Report Submission	0d	Wed 9/15/93	Wed 9/15/93	111	
113	Third Optional Monitoring episode	46d	Sun 10/31/93	Wed 12/15/93		
114	Report Submission	0d	Wed 12/15/93	Wed 12/15/93	113	
115	Fourth Optional Monitoring episode	44d	Mon 1/31/94	Tue 3/15/94		
116	Report Submission	0d	Tue 3/15/94	Tue 3/15/94	115	

# APPENDIX C

# APPENDIX D