

(16)

MINUTES
RESTORATION ADVISORY BOARD
April 16, 2002 MEETING

1. ATTENDANCE:

Government RAB Members Present:

Randy Battaglia, U.S. Army Corps of Engineers, New York District, standing in for Stephen Absolom, U.S. Army Co-Chair; Alicia Thorne, NYS Department of Environmental Conservation;

Community RAB Members Present:

Karen Tackett, Community Co-Chair; Patricia Jones, Industrial Development Agency; Brian Dombrowski, Seneca County Health Department; Fred Swain.

Community RAB Members Not Present:

Dave Schneider, Carmen Serrett, Frank Ives, Henry Van Ness, David Wagner, Frankie Young-Long.

Environmental Support Personnel and Guests Present:

David Babock, Parsons; Janet Fallo, U.S. Army COE, New York District; Keith Hoddinott, USACHPPM; Jim Sprague, ENSR; Nancy Williamson, Recording Secretary

2. Mr. Battaglia called the meeting to order at 7:00 p.m. All attendees were asked to introduce themselves. He explained that Mr. Absolom was at a Land Use Controls conference in Charleston, SC. The last meeting was a Public Meeting concerning SEAD 63 on February 19, 2002. There are no minutes from that meeting. The agenda for this evening included an Overview of Seneca Army Depot Activity and an Environmental Restoration Status report.

3. Seneca Army Depot Activity's historical mission included conventional ammunition storage, maintenance and demilitarization; special weapons storage and maintenance; storage and rebuild of industrial plant equipment; storage of general supplies; storage of hazardous materials; and storage of strategic ores.

Since the closure of the depot in 2001, the current mission has been that of caretaker with the purpose of transferring property, maintaining facilities and property and managing natural resources. The Overview handout details the property transfer status. Implicit in the transfer is remediation of the property in line with regulatory standards. A time line was presented for cleanup and transfer milestones. Community involvement includes bi-monthly Restoration Advisory Board meetings and Public Meetings (as needed). Issues for the community are Confirm and Deny, UXO residuals, clean up levels of soil and ground water and radiation residual.

4. Mr. Battaglia then examined each of the restoration milestones giving current status of the sites. (See handout for detail.) He ended with a statement about funding for 2001, 2002 and 2003. There were a few questions and comments during the presentation:

Q: What is off-site disposal?

A: Instead of burying the contamination on the depot (on-site), we contract to have it removed to a disposal site off-post.

Q: Are we sure that we can stock pile at the small arms range? At a range I knew of they weren't allowed to stockpile.

A: We have to put plastic on the pile and dyke it with straw bales. Typically, metals won't migrate.

Q: When is the Conservation Area going to transfer? I heard there was a meeting with the IDA recently.

A (P. Jones): There was a meeting. I'm not able to divulge any information about what was discussed or if any decisions were made.

Q: What's the cost comparison of investigations vs. removals?

A: BRAC wants to move to removals and out of investigations. EECA's are used in some cases to speed the process. A guess would be 25% for investigations and 75% for removals.

Q: How many sites are completed?

A: Actually, none. Though some are close such as the OB Grounds which is 90% complete with work effort. The No Further Action sites are done but have no ROD yet.

5. The next meeting is tentatively scheduled for June 18, 2002. The date and location will be provided you by late May.

6. Mr. Battaglia opened the floor for general discussion. There being none, he thanked everyone for coming and adjourned the meeting at approximately 8:07 p.m.

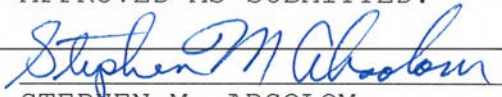
Respectfully submitted,



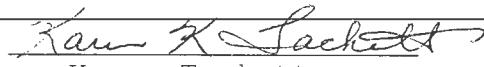
Enclosures

NANCY WILLIAMSON
Recording Secretary

APPROVED AS SUBMITTED:



STEPHEN M. ABSOLOM
U.S. Army Co-Chair



Karen Tackett
Community Co-Chair



Environmental Restoration Status

**Presented By:
Randy Battaglia
Project Manager, New York District**

Ash Landfill Milestones:

- Permeable Reactive Barrier Treatability Study in progress
- The Draft-Final PRAP has been submitted; Agency comments are pending.
- Other Actions Needed: one-foot cover on the Ash and NCLF, debris piles removal, and additional in-situ permeable reactive walls if needed
- Status of the Incinerator(SEAD 15) and Cooling Water Pond(SEAD 3)
 - questioned by EPA
 - Army: No Action based upon the RI; include in the PRAP/ROD
- Concurrence for LUC's has not occurred. This is being discussed at DOD-HQ, EPA level.

Open Burning Grounds Milestones

- The Record of Decision was signed on June 14, 1999.
- Case 1 soils have been removed, soils screened for ordnance
- Disposition of oversized material and ordnance needs to be determined, alternatives are being evaluated.
- Final Surveys to be performed

Fire Training Areas Milestones

- A preliminary version of the Draft Final PRAP was submitted electronically on March 15, 2002.
- SEAD 25
 - Removal of soils with off site disposal, Removal of sediments in the nearby ditch, and groundwater monitoring
- SEAD 26
 - Groundwater monitoring only

Deactivation Furnaces Milestones

- Revised Draft Proposed Remedial Action Plan was submitted for regulatory review on Sept 5, 2001
- Army response to comments is due April 21, 2002
- The use of SEAD-17 as a Low Temperature Thermal Desorption Unit is no longer being considered to burn contaminated soils from other sites at SEDA.
- The Remediation involves Removal of Metal Contamination in and around the Furnaces.

Rad Sites Milestones

- SEAD 12
 - Additional EPA comments received December 28, 2001
 - Comments were addressed on February 11, 2002
 - The RI will become final if no additional comments are received
 - Fieldwork Completed for the Radiological Indoor Building Survey
 - The survey report will be submitted in April and will incorporate response to previously received comments in addition to new data.

Rad Sites, continued

- SEAD 63
 - No comments received- EECA is Final
 - Public Meeting for the Action Memorandum and Engineering Evaluation/Cost Analysis (EE/CA) Document was held 19 Feb 02
 - A Removal Action is planned for this summer

Rad Sites, continued

- SEAD 48
 - A MARSSIM survey is planned to investigate the E-800 row storage igloos.
 - The revised Draft Work Plan was submitted on March 1, 2002
 - Fieldwork Planned for June 02 pending Regulatory Review

Paint Disposal Areas, SEAD-59,71

- SEAD 59 & 71
 - Submission of the Draft Final Action Memo/Decision Document is due 30 Apr 02
 - The Remedial Action planned is Excavation and Off Site Disposal

Investigate EBS Sites

- Fieldwork for Site Investigations of Sites identified in the EBS is planned.
- Site Investigations to be Performed:
 - Lake Housing Small Arms Range 119
 - Airfield Small Arms Range 1225
- PID area RIFS
 - SEAD 121 C, DRMO Yard
 - SEAD 121 I, Rumored Cosmoline Oil Disposal Area

Munitions Washout Facility

- SEAD 4
 - EPA comments received 4 Apr 02 on the Revised Final RI and the Draft-Final FS
 - Issue: Ecological Risk and Cleanup Criteria for Chromium in Soils

Decision Document for No Further Action Sites

- Comments were received Nov 2001
- SWMU's 47, 51, 53, 72 require further discussion between the Army and regulators
 - SEAD 47 Bldgs 321 & 806 Rad Calibration
 - SEAD 51 Herbicide Usage - Fenceline
 - SEAD 53 Ammunition Igloos
 - SEAD 72 Bldg 803 Mixed Waste Storage

*Check Transmittal
letter on
10/10/01*

Decision Document for No Further Action Sites

- The sites included in the “26 NFA” are:
 - SEADs 1,2,7,10,18,19,20,21,22,29,30,31,32,35,36,37,42,47,49,51,53,55,60,61,65, 72
- The sites included in the mini-risk are
 - SEADs 9,27,28,32,33,34,43,44A,44B,52,56,58,62,64A,64B,64C,64D,66,68,69,72,120B

Old Construction Debris Landfill Milestones

- SEAD 11
 - The Draft Final Action Memorandum/Decision Document has been delayed
 - The Army is not planning a Removal Action this year as previously discussed.

IRFNA Site Milestones

- SEAD 13
 - The Decision Document submitted April 12, 2000 proposed No Action
 - Additional ground water monitoring to resolve issues delayed due to low water table
 - The wells are being re-sampled April 2002
 - Decision Document will be re-submitted in June 2002.

Sludge Piles Milestones

- SEAD 5
 - An EE/CA and Approval Memorandum were finalized.
 - The project was presented at the March 2000 RAB meeting
 - Removal of the Sludge Piles should occur this summer

EOD Training Area and Small Arms Range

- SEAD 46, 57
 - A Draft RI Report as a Preliminary Site Characterization Report is to be submitted 20 May 02.
 - Removal Actions pending OE
 - The Results of Actions Needed for OE will determine the next step in the CERCLA process, namely, a Removal & Completion Report versus a Risk Assessment/RI

Other Removal Actions Planned for this year

- **Removal- BTEX/VOC sites, SEADs 38-40**
 - SEAD 38 Building 2079 Boiler Plant
Blowdown Leach Pit
 - SEAD 39 Building 121 Boiler Plant
Blowdown Leach Pit
 - SEAD 40 Building 319 Boiler Plant
Blowdown Leach Pit

Other Removal Actions Planned for this year

- **Removal-Metals Sites, SEADs 24,50,54,67**
 - SEAD 24 Abandoned Powder Burning Pit
 - SEAD 50 Tank Farm *Need to have 50 tanks storage*
 - SEAD 54 Asbestos Storage
 - SEAD 67 Dump Site East of STP No. 4

Funding Status

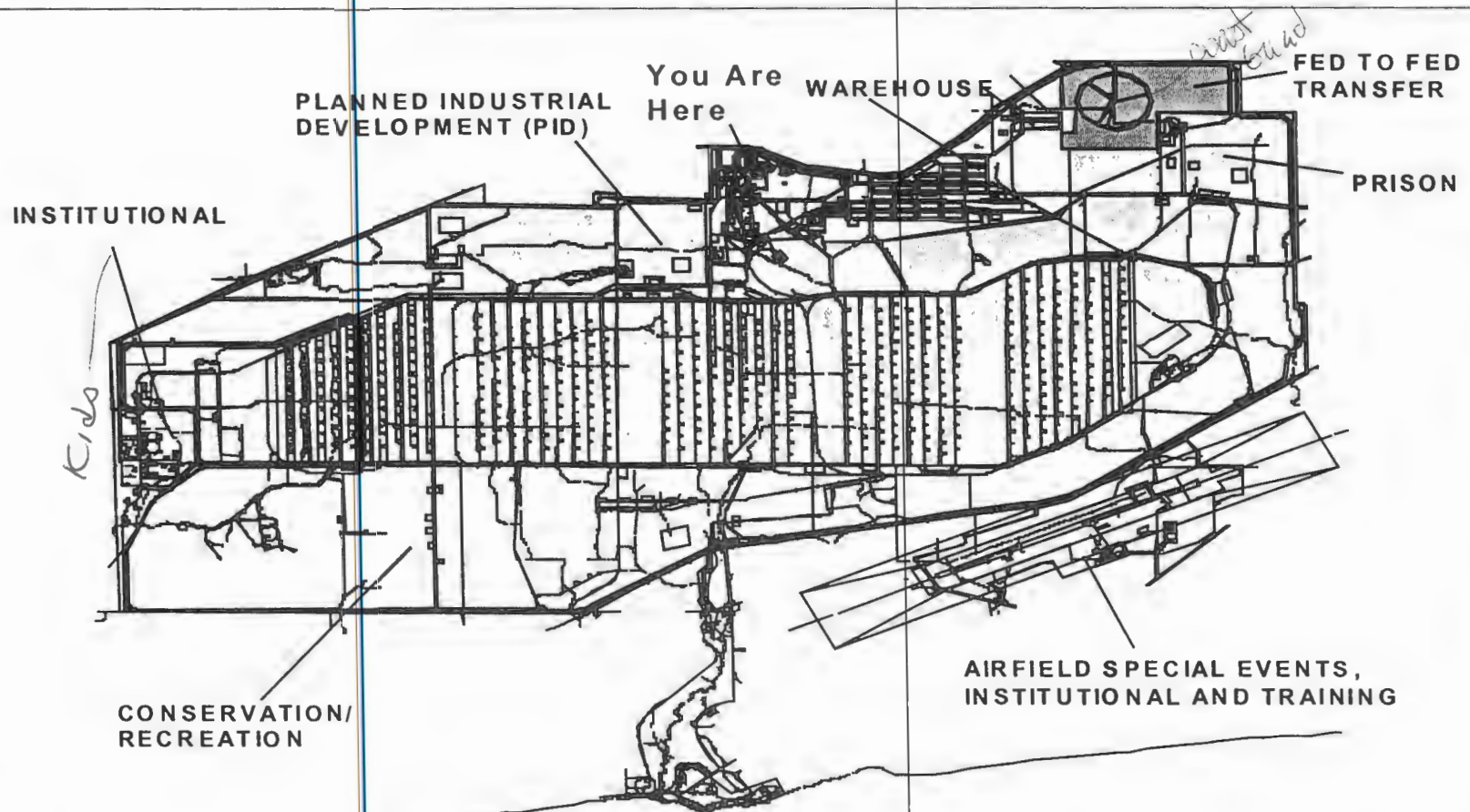
- BRAC funding for FY 2001 was \$5.5M
- FY02 funding is planned for \$15.4M
- FY 03 \$39.3M

SENECA ARMY DEPOT

Overview

Seneca Army Depot Activity Program Overview

Reuse



Seneca Army Depot Activity Program Overview

Seneca Army Depot Historical Mission Activity

- Conventional Ammunition Storage, Maintenance and Demilitarization
- Special Weapons Storage and Maintenance
- Storage and Rebuild of Industrial Plant Equipment
- Storage of General Supplies
- Storage of Hazardous Materials
- Storage of Strategic Ores

Seneca Army Depot Activity Program Overview

Current Mission

- Caretaker Status -
 - Transfer Property
 - Maintain Facilities and Property
 - Manage Natural Resources
- Staffing
 - 7 Caretaker
 - 5 Corps of Engineer
 - 3 Enclave

Seneca Army Depot Activity Program Overview

Property Transfer

- **Acreage**

Total Acres - 10,594 acres

Transferred Acres -173 acres North Depot

193~~3~~ acres Family Housing

673 acres Prison

Balance Acres to be Transferred -

964 acres PID/Warehouse

501~~1~~ acres Airfield

292 acres Fed to Fed (Coast Guard)

114 acres Housing tail

25 acres SBCCOM *(cancel)*

7500 acres Conservation Area

Seneca Army Depot Activity Program Overview

Property Transfer

(continued)

LEASES

Phase I PID/Whse

Phase II PID/Whse

Airfield

Bldg 819 Generator Room(pending)

Lib

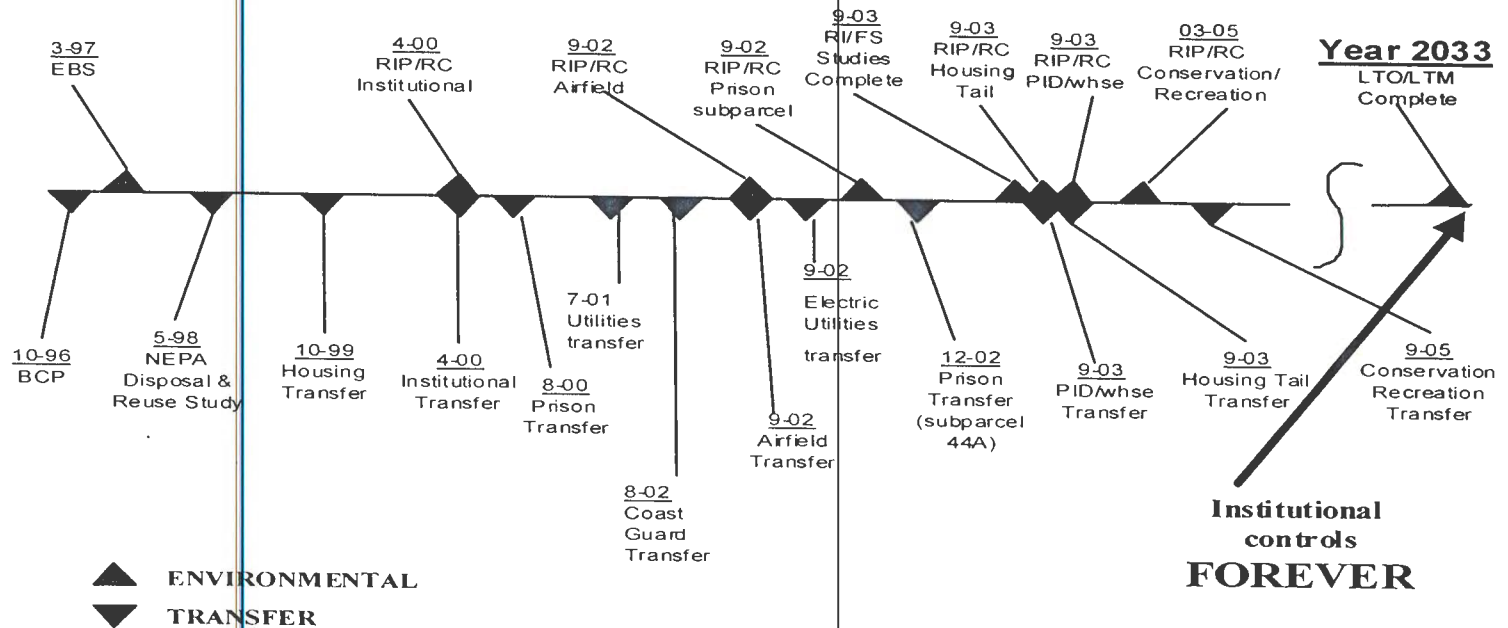
Seneca Army Depot Activity Program Overview

Regulatory Status

- National Priority List
- State Regulators - Federal Facility Agreement signatory
 - Equal Party to the Agreement
- Federal Regulators - Federal Facility Agreement signatory
 - Equal Party to the Agreement
- Clean-up Drivers - CERCLA
 - Reuse plan
 - RCRA
 - Compliance

Seneca Program Review

Major Clean-up and Transfer Milestones SEAD



Seneca Army Depot Activity Program Overview

Community Involvement

- RAB/Public Meetings
 - RAB meets Bi-Monthly
 - Public meetings as required
- Community Issues
 - Confirm or Deny issue
 - UXO Residuals
 - Clean Up Levels of soil and ground water
 - Radiation residual

all discuss mission of Spec. Weap. required more extensive investigation

Seneca Army Depot Activity Program Overview

Environmental Snapshot

UNIT NUMBER	UNIT NAME	ACREAGE
SEAD 40	BUILDING 319 - BOILER PLANT BLOW DOWN LEACH PIT	0.26 AC
SEAD 44A	QUALITY ASSURANCE TEST LABORATORY	9.15 AC
SEAD 45/115	OPEN DETONATION AREA	208.66 AC
SEAD 46	SMALL ARMS RANGE	30.84 AC
SEAD 48	PITCHBLEND STORAGE IGLOOS	8.53 AC
SEAD 50	TANK FARM	1.02 AC
SEAD 54	ASBESTOS STORAGE (REFER TO SEAD 50)	19.95 AC
SEAD 57	EXPLOSIVE ORDNANCE DISPOSAL AREA	15.59 AC
SEAD 59	FILL AREA WEST OF BUILDING 135	6.24 AC
SEAD 63	MISCELLANEOUS COMPONENTS BURIAL SITE	2.12 AC
SEAD 67	DUMP SITE EAST OF SEWAGE TREATMENT PLANT NO. 4	0.95 AC
SEAD 68	BUILDING S-335 - OLD PEST CONTROL SHOP	0.005 AC
SEAD 71	ALLEGED PAINT DISPOSAL AREA	3.40 AC
SEAD 118	GRENADE RANGE, EOD AREA #2, EOD AREA #3	24.56 AC
SEAD 119	SMALL ARMS RANGE NEAR SCORPION ROAD	1.82 AC
SEAD 121C	DRMO YARD	3.10 AC
SEAD 1211	RUMORED COSMOLINE OIL DISPOSAL AREA	18.5 AC
SEAD 122B	BUILDING 2302 SMALL ARMS RANGE	2.42 AC

MINUTES
RESTORATION ADVISORY BOARD
March 18, 2003

1. ATTENDANCE:

Government RAB Members Present:

Stephen Absolom, U.S. Army Co-Chair; Julio Vazquez,
US Environmental Protection Agency;

Community RAB Members Present:

~~Karen Tackett, Community Co-Chair; Fred Swain,
Robert McCann,~~

Community RAB Members Not Present:

Pat Jones, SCIDA; Dave Schneider, Carmen Serrett,
Frank Ives, David Wagner, Frankie Young-Long,

Environmental Support Personnel and Guests Present:

David Brouwer, U.S. Army Corps of Engineers, New
York District; Randy Battaglia, COE, New York
District; Thomas Battaglia, COE; Tom Enroth, COE,
New York District; Janet Fallo, COE, New York
District; Charlotte Bethany, NYS Department of
Health; Keith Hoddnott, CHPPM; Chris Boes, Army
Environmental Center; Kevin Healey, COE, Huntsville;
Marshall Greene, COE Huntsville; Todd Heino,
Parsons, Jackie Travers, Parsons; Katie Kadlubak,
Parsons; John Brod, ENSR; Ronald Enslow, Seneca
White Deer; Nancy Williamson, Recording Secretary

2. Mr. Absolom called the meeting to order at 7:07
p.m. He thanked everyone for coming and asked all
attendees to introduce themselves.

3. Mr. Absolom had no minutes from a previous
Meetings to sign [Minutes from September 17, 2002 are
enclosed and will be reviewed at the next RAB meeting,
with apologies for the omission from the recording
secretary.]

4. The evening's agenda started with an update on the
county jail site by Mr. Thomas Battaglia. SEAD 50/54 used

to have 100 above ground steel tanks. The soil was probably contaminated when material was removed from the site. The removal action consists of excavation and disposal of the soil to a landfill. The soil is contaminated with heavy metals.

Areas within 50/54 have been excavated in 6", 12" and 18" depths and in one area to a depth of 3 ½ feet. All confirmed samples meet all State standards except locations of 4 parts per billion which are slightly above for benzo(a)pyrene and Di-benz(a,h)anthracene. For the most part, all contamination has been removed to Seneca Meadows. The Army maintains it is ready to transfer to the county for the new jail. We have asked the area to be reviewed on an accelerated basis so it would be ready to transfer when the rest of the areas are ready to transfer.

Q: Can you explain what the area held?

A: Antimony, rutile and asbestos--all dry substances. Tanks were removed and the area beneath was tested. It had initial and expanded site examination. Some wells were put in.

5. Mr. Absolom continued the program with a Project Review.

The Remediation Action Plan handout is a history of the sites, the current status, apparent risk from previous investigations and a date the site work is expected to be completed. Additional remarks are as follows:

PID/Warehouse Area

SEAD 59 & 71: Fill and debris area thought to be paint containers. All contamination successfully removed. We are now doing ground water testing to determine if there more action is required.

SEAD 16: Abandoned Deactivation Furnace consists of 3 acres. The site consists of residual powder and OE scrap and small explosives. The project is scheduled for completion in August 2004.

SEAD 17: The newer deactivation furnace. We are currently working on the Proposed Plan and will be the next public meeting. This site is also scheduled for completion in August 2004.

Decommissioning Surveys: Buildings 5 and 306. The Army will retain until the license is terminated.

Conservation Area Sites

SEAD 48: We are going back in to test to make sure it's still ok under today's standards.

SEAD 63: Demil was put in small containers and buried. The Army will remove and dispose of it.

SEAD 6: Ash Landfill site work completion date is now doubtful for December 2003.

SEAD 12: Projection that this will be last site and will close SEDA based on funding to do work.

SEAD 23:

Q: Is there any concern what with the cold weather and ground heaving that anything would have opened up?

A: We took 1-foot excavation and dug 13,000 holes looking for ordnance. Of the 1000 pieces of ordnance found 99% were inert. July 3 and 4 2002 we burned 7000 20mm anti-aircraft (AA) bullets and had 45 detonations. The holes were cleared with metal detectors.

Q: Have you checked the holes since the ground is thawing?

A: No.

SA: The Army will have periodic reviews. There is a 10-30% chance that something could be left.

SEAD 24: Powder Burning Area.

Did an initial investigation and found heavy metal. Did a ground water investigation and no heavy metal was found.

SEAD 115: Open burning/Open Detonation.

Starting geophysical mapping of this site this Spring to aid in pricing. RCRA management of disposal of hazardous waste. Above ground fragments are covered with soil and exploded and are typically consumed in detonation. Some could get kicked out up to 1800 feet.

Airfield Site

SEAD 122: Small Arms Range at Airfield.

State Police want to use this area. The Army will clean it up, then the police can use it as a small arms range. Army attorneys require cleanup because of the levels of contamination.

Q: Do you have any idea of the cost of cleaning SEAD 122?

A: \$100,000 to \$500,000. We are speeding up the process in order to transfer.

Comment: It seems like a waste of money. The regulators agree. Some lawyers say the Army needs to take action because a risk exists.

A: Lead content as high as 4000ppm is a hazard.

Q: How is it evaluated and cleaned?

A: Soil sifting.

Q: Who is going to do the work?

A: The Army contractor, with worker protection.

Q: When you transfer will it be clean?

A: Yes.

Q: Then the police reopen the area as a range. Does EPA have new guidance?

A: Yes. They could use bullet traps, for example, same as for Rod and Gun Clubs. The State requires arms range property owners to be liable for cleanup. The ranges should be cleaned yearly to avoid ground water contamination. We are doing range maintenance. I'm not sure what the State Police are going to use--bullet traps or just targets.

6. Land transfers status:

- a) the PID/Warehouse parcel is expected to transfer at the end of July 2003,
- b) the Conservation Area will be ready to transfer 30 September 2003, and

c) the Airfield 30 December 2003.

All other sites in the Remediation Action Plan will be retained by the Army. We are working on how the Army will have access for maintenance of the sites. We are working with the IDA to develop controls. The options are to either maintain the perimeter fence of the whole base or to agree on methods of control within the transferred areas.

The Army is presently working to amend the MOA signed in 1999 to clarify some gray areas. This is being done at the Undersecretary level and will be signed in the very near future.

The County is very interested in getting the parcel for the jail. It is not ready for transfer. The Army is trying to meet their timetables. The county needs to own the property in July so they can go to bids and begin construction. The jail site is included in the PID transfer so it will transfer at the same time. When these three areas transfer, The Army will have 1,000 acres of the depot, similar to Swiss cheese holes, still in its possession.

Comment: The IDA will have a public meeting next Tuesday at 5 p.m. at the County Office Building.

Comment: There is a public meeting tonight.

Comment: Pat Jones is at a meeting on economic development.

The next meeting for the RAB will be May 20, 2003.
Mr. Absolom thanked everyone for coming.

6. There being no further discussion, the meeting was adjourned at 9:00 p.m.

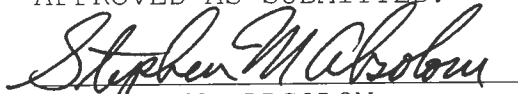
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Enclosures

APPROVED AS SUBMITTED:



STEPHEN M. ABSOLOM
U.S. Army Co-Chair



Karen Tackett
Community Co-Chair

Restoration Advisory Board Meeting Agenda

March 18, 2003

Romulus Town Office Building
Willard, NY

-
- 7:00** **Welcome**
Mr. Stephen Absolom,
Army Co-Chair
- 7:05** **Acceptance of Minutes from Previous Meeting**
Mr. Stephen M. Absolom
Ms. Karen Tackett
Army Co-Chair/Community Co-Chair
- 7:10** **Agenda**
1. Project Review – Stephen Absolom
2. County Jail Site Update – Thomas Battaglia
3. Land Transfers – Stephen Absolom
-
- Break**
- 8:15** **Open Discussion**
All
- 8:30** **Adjournment**

Remediation Action Plan

The remediation action plan is prepared to history of the site, identify the current status, the apparent risk from previous investigations, and a date that the site work is expected to be completed. The Dates provided are estimates.

PID / WHSE Area

SEAD 59 & SEAD 71- PAINT DISPOSAL AREAS

Acreage: 9 acres

Site History: Site consists of fill areas that debris was placed in.

Risk: Potential Ground water contamination from petroleum contamination found in the soil.

No risk remains from fill areas.

Status of Remediation: Removal action of the contaminated soil is complete. Evaluation of GW is being completed.

Site Work Completion Date: December 2003

SEAD 16- ABANDONED DEACTIVATION FURNACE

Acreage: 3 acres.

Site History: This unit was used to destroy small arms ammunition.

Risk. SEAD 16 Abandoned Deactivation Furnace: Facility has residual powder in piping and OE scrap that has potential for explosive residuals. There is heavy metals contamination in the soil.

Status of Remediation: Draft final Proposed Remedial Action Plan is under review and clean up levels are being negotiated. Remediation project scheduled for funding in FY 04.

Site Work Completion Date: N/A

RIP/RC Completion Date: August 2004

SEAD 17 - DEACTIVATION FURNACE

Acreage: 8 acres

Site History: This unit was used to destroy small arms ammunition.

Risk. SEAD 17 Deactivation Furnace: Facility has OE scrap that has potential for explosive residuals. There is heavy metals contamination in the soil.

Status of Remediation: Proposed Remedial Action Plan is under review and cleanup levels are being negotiated. Remediation project scheduled for funding in FY 04.

Site Work Completion Date: N/A

RIP/RC Completion Date: August 2004

SEAD 25 - FIRE DEMONSTRATION AREA

Acreage: 3.5 acres.

Site History: This site was used to demonstrate the installation fire fighting capability.

Risk: Volatiles in the soil contributing to GW contamination. Semi- volatiles in ditch line poses limited long term risk to child resident of the ditch

Status of Remediation: Proposed plan is approved and Record of Decision being prepared.

Site Work Completion Date: N/A

RIP/RC Completion Date: Feb 2004

SEAD 26 - FIRE TRAINING AREA

Acreage: 6.7 acres.

Site History: This site was used to practice fire fighting capability.

Risk: Semi-volatiles in surface soil and ditch line along railroad pose limited long term risk to child resident of the ditch.

Status of Remediation: Proposed plan is approved and Record of Decision being prepared.

Site Work Completion Date: N/A

RIP/RC Completion Date: Feb 2004

SEAD 121 - EBS SITE – INDUSTRIAL

Acreage: 23 Acres

Site History: DRMO yard and cosmoline steam cleaning site.

These sites have had a site investigation performed. PAHs (Semi-volitiles) have been found.

Solvents have been found in the ground water around the DRMO yard.

Risk: Soil contamination may pose threat to residential child.

Status of Remediation: RI field work completed and Report being prepared

Site Work Completion Date: N/A

RIP/RC Completion Date: December 2004

SEAD 50 - TANK FARM STORAGE

SEAD 54 - ASBESTOS STORAGE

Acreage: 26 acres

Sites History: These sites are where the Army stored material in above ground steel tanks.

Movement of the material resulted in contamination of the soil.

Status of Remediation: These two sites have a removal action underway. The action consists of excavation and disposal by land-filling the soil, which are contaminated with heavy metals.

Risk: none at end of ongoing removal action

Site Work Completion Date: Feb 2003

SEAD 38 - BUILDING 2079 BOILER BLOW DOWN PIT
SEAD 39 - BUILDING 121 BOILER BLOW DOWN PIT
SEAD 40 - BUILDING 319 BOILER BLOW DOWN PIT
SEAD 41 - BUILDING 718 BOILER BLOW DOWN PIT (Kids Peace)

Acreage: 1 acre combined

Site History: These sites consist of contamination resulting in the blow down of the central boilers, which was discharged to the ground. SEAD 41 Action completed at Kids Peace before transfer. SEAD 38 is also included in the SEAD 4 Area of concern.

Risk: Petroleum products may pose risk.

Status of Remediation: A removal action is scheduled for this year.

Site Work Completion Date: July 03

SEAD 5 - SLUDGE PILES

Acreage: 2 acres

Site History: This site is a result of the storage of domestic sewage sludge from the sewer treatment plant drying beds. The investigation revealed that the sludge has elevated level of heavy metals in it.

Risk: Heavy metals may pose threat to resident.

Status of Remediation: Removal action is scheduled for this year.

Site Work Completion Date: July 2003

SEAD 67 - DUMPSITE EAST OF STP4

Acreage: 2 acres

Site History: This site is identified as a location where unknown material was dumped. The site investigation revealed that the soil is contaminated with metals and the contaminants were localized.

Risk: Soil contamination may pose a risk to housing resident

Status of Remediation: This site has a removal action underway.

Site Work Completion Date: July 2003

DECOMMISSIONING SURVEYS

Size: 2 buildings (306 and 5)

Site History: Seneca has an NRC license that requires termination prior to allowing unrestricted access to the inside of the buildings. Field survey work completed. Final evaluation of risk pending final approval of objectives. Evaluation to expected to be completed in Spring of FY03 and before final transfer.

Risk: Potential residual depleted uranium material remains and which could impact interior surface of structure.

Status of Remediation: Fieldwork Complete. NRC has Final Plan for approval.

Site Work Completion Date: N/A

License Termination Date: November 2003

CONSERVATION AREA SITES

SEAD 46 & 57 - AMMUNITION DESTRUCTION AREAS

Acreage: 113 acres

Site History: These sites are where the Army performed destruction of ammunition by detonation or discharge. The site investigation of these sites revealed contamination of ordnance residual and heavy metals.

Risk: Sites have OE scrap that has potential for explosive residuals. There is heavy metals contamination in the soil.

Status of Remediation: Remediation project scheduled for funding in FY 03/04.

Site Work Completion Date: July 2004

SEAD 48 - PITCHBLEND ORE STORAGE

Acreage: 55 acres

Site History: This site consists of 11 igloos that were used to store pitchblende ore. The igloos were decommissioned in the mid 1980s. Unrestricted access approval is on file from NRC, NYS and EPA. An extensive removal occurred during the decommissioning process however there is a concern for residuals under current standards. Further investigation will determine whether additional work is required.

Risk: Residual left from previous removal may have long term impact for residence.

Status of Remediation: Field work to be performed 2003.

Site Work Completion Date: N/A

NFA ROD Completion Date: January 2005

DECOMMISSIONING SURVEYS

Size: 105 igloos and 4 buildings

Site History: Seneca has an NRC license that requires termination prior to allowing unrestricted access to the inside of the buildings. Field survey work completed. Final evaluation of risk pending final approval of objectives. Evaluation to be completed in Spring of FY03 and before final transfer.

Risk: Potential residual depleted uranium material remains and which could impact interior surface of structure.

Status of Remediation: Fieldwork Complete. NRC has Final Plan for approval.

Site Work Completion Date: N/A

License Termination Date: November 2003

SEAD 63 - MISCELLANEOUS COMPONENTS BURIAL SITE

Acreage: 4 acres

History of Site: This site was used by the Army to bury classified military unique components.

Risk: Military unique items to be removed which have the potential to contain low level radiological contamination. Some heavy metal contamination may be present.

Status of Remediation: A removal action is approved and expected to start this April 2003

Site Work Completion Date: October 2003

SEAD 6 - ASH LANDFILL (including SEADs 3,8,14,15)

Acreage: 42 Acres

Site History: Site is former municipal waste deposal area. Heavy metals remain in the soil. TCE (solvent) is found in the ground water.

Risk: Ecological risk exists. Ground water wells will not be permitted.

Status of Remediation: This project has had the Proposed Remedial Action Plan accepted and ROD being prepared.

Site Work Completion Date: December 2003

SEAD 11 - OLD LANDFILL

Acreage: 6 acres

History of Site: Construction debris and other unknown items were disposed of at this site.

A site investigation conducted revealed contamination and unknown anomalies.

Risk: Heavy metals and solvent in the soil, unknown items in the fill area.

Status of Remediation: A removal action is planned for spring 03.

Site Work Completion Date: Feb 2004

SEAD 13 - INHIBITED RED FUMING NITRIC ACID (IRFNA)

Acreage: 11.5 acres

History of Site: This site was used by the army to neutralize IRFNA, a liquid propellant constituent. The acid was poured into a trench filled with limestone and water and was neutralized. Process resulted in nitrogen compounds being introduced into the ground water. This site is expected to require land use controls only.

Risk: Has excess nitrates above drinking water standards

Status of Remediation: Field work for base line complete. Decision Document under review.

Site Work Completion Date: N/A

RIP/RC Completion Date: May 2004

SEAD 4 - MUNITIONS WASHOUT FACILITY

Size: 4 acres

Site History: This site was used by the Army to wash out shell casing to remove explosives. Heavy metal contamination has been found in the soil.

Risk: None for industrial future use. Contaminants pose limited ecological concerns

Status of Remediation: The project is in the RI/FS process.

Site Work Completion Date: N/A

RIP/RC Completion Date: June 2005

SEAD 12 - RADIATION SITE

Size: 10.5 acres

History of Site: This site consists of the former Special Weapons Storage Area. Three areas where military unique items were buried and a localized groundwater plume contaminated with TCE was found during the remedial investigation. SEAD 72- Mixed Waste Storage Bldg. regulated under the Interim Status Hazardous Waste Permit will be closed out and incorporated into the ROD of the SEAD 12. This has potential to accelerate cleanup upon completion of the additional work that required.

Risk: Groundwater has localized TCE (solvent) plume

Status of Remediation: The site is in the RI/FS process.

Site Work Completion Date: N/A

RIP/RC Completion Date: Feb. 2007

SEAD 23 - OPEN BURNING GROUNDS

Acreage: 30 acres

Site History: The Army used this site for burning propellant, explosives and pyrotechnics to destroy unstable items. This site is within the boundary described by SEAD 115

Risk: See SEAD 115

Status of Remediation: The Record of Decision has been signed. The remedial action for this site is expected to be completed this year.

Site Work Completion Date: N/A

RIP/RC Completion Date: September 2003

SEAD 118 - ORDNANCE AND EXPLOSIVE SITES

Acreage: 48 acres

Site History: This site represents 3 areas where OE was found as a result of records search and site investigations. It is proposed to perform removal actions at the three locations and restrict the land use to surface activity.

Mission: site is actually 3 locations. Site A is a training range where 40 mm training grenades and 37 mm LAW sub-caliber training rounds were fired. Training rounds have small explosive charge that create the "puff of smoke" to indicate the location of round. Site 2 and 3 are adjacent each other and were used by EOD units for training. These sites have OE scrap that may have residual explosive contamination.

Risk: Sites that have OE scrap have potential for explosive residuals.

Status of Remediation: Remedial Action is scheduled for funding in FY 03.

Site Work Completion Date: May 2004

SEAD 24 - POWDER BURNING AREA

Acreage: 3.25 acres

Site History: This site was used in the late 40s early 50s to burn black powder and propellants. Investigation shows heavy metal contamination in the soil.

Risk: Soil contamination may pose a chronic risk to residents.

Status of Remediation: A removal action at this site is ongoing.

Site Work Completion Date: July 03

SEAD 115 - OPEN BURNING / OPEN DETONATION

Acreage: 400 acres

Site History: This site is where the Army performed destruction of ammunition by detonation or discharge. The site investigation of these site revealed contamination of ordnance residual and heavy metals.

Risk: Site has OE scrap that has potential for explosive residuals. There is heavy metals contamination in the soil.

Status of Remediation: Work to establish OE boundary is on going. Frequency of OE is to be established providing the information to be used in a proposed removal action.

Site Work Completion Date: Oct 2005

AIRFIELD SITE

SEAD 122 - SMALL ARMS RANGE AT AIRFIELD

Acreage: 4 Acres

Site History: This site has heavy metal contamination as a result for small arms qualifications by the military.

Risk: Soil contamination pose risk to onsite worker.

Status of Remediation: An action is expected this year.

Site Work Completion Date: May 2003

No Further Action Sites

20 No Further Action SWMUs are being incorporated into a Record of Decision. The Sites involved are as follows with locations identified:

SEAD 7 Shale Pit- Kids Peace
SEAD 10 Scrap Wood pile- PID
SEAD 18 Bldg 709 Classified Document Incinerator- Kids Peace
SEAD 19 Bldg. 801 Classified Document Incinerator- Conservation Area
SEAD 20 STP 4- Prison
SEAD 21 STP 715- Sewer District
SEAD 22 STP 314- Sewer District
SEAD 29 Bldg. 732 Waste Oil tank- Kids Peace
SEAD 30 Bldg. 118 Waste Oil Tank- PID
SEAD 31 Bldg. 117 Waste Oil Tank- PID
SEAD 32 Bldg. 718 Underground Waste Oil Tank – Kids Peace
SEAD 35 Bldg. 718 Waste Oil Burning Boilers – Kids Peace
SEAD 36 Bldg. 121 Waste Oil Burning Boilers- PID
SEAD 37 Bldg. 319 Waste Oil Burning Boilers- PID
SEAD 42 Bldg. 106 Preventive Medicine Laboratory- PID
SEAD 47 Bldg. 321 and 806 Radiation Calibration Source Storage *
SEAD 49 Bldg. 356 Columbite Ore Storage Area- Whse (Enclave)
SEAD 51 Herbicide Usage Perimeter of High Security Area – Conservation *
SEAD 53 Ammunition Storage- Conservation Area *
SEAD 55 Bldg. 357 Tannin Storage – Whse. (Enclave)
SEAD 60 Oil Discharge Area Bldg. 609- Prison
SEAD 65 Acid Storage Area – Prison

Status- Record of Decisions are Draft and under Army Review. Submission to the EPA and DEC 15 Mar 2003. The Decision Document has been review by all parties and comments have been satisfactorily addressed. The site with the * are areas that are under discussion with EPA and State regarding the appropriateness of the no action determination.

SCIDA Priority- Sites in Kids Peace, Sites in PID/Whse, Sites in Conservation Area, Sites in Prison.

Mini- Risk Sites to No Further Action

The Army position for this group of sites is that there contaminant levels found during the Expanded Site Investigation are at such level that no further action is needed. The decision document establishing this position is under review by the Agencies. The sites included in this grouping are as follows:

SEAD 9; Old scrap wood site - PID
SEAD 27; Bldg.360 Steam Jenny Waste Tank – PID
SEAD 28; Bldg. 360 Waste Oil Tanks – PID
SEAD 33; Bldg. 121 Waste Oil Tanks – PID
SEAD 43; Bldg. old Missile Propellant Test Laboratory – Prison
SEAD 44; QA Function Test Laboratory - Prison
SEAD 52; Ammunition Break Down Area – Prison
SEAD 56; Bldg. 606 Herbicide /Pesticide Storage Area – Prison
SEAD 58; Debris Area near Bldg. 2131- Conservation Area - Prison
SEAD 62; Nicotine Sulfate Disposal Area – Prison
SEAD 64a; Garbage Disposal Area - Whse.
SEAD 64b; Garbage Disposal Area- Conservation
SEAD 64c; Garbage Disposal Area- Prison
SEAD 64d; Garbage Disposal Area- Conservation
SEAD 66 Pesticide Storage Area by Bldg. 5&6 - PID
SEAD 68; Bldg. 335 Old Pest Control Shop – Whse.
SEAD 69; Bldg. 606 Disposal Area - Prison
SEAD 70; Fill Area Adjacent Bldg. T-2110 - Conservation
SEAD 120B; Ovid Road Small Arms Range – Prison

Investigation on these sites resulted in the finding of minimal releases. When Risk assessments were prepared using the maximum level of contamination found, there was now risk when compared to the plan future use of the property. These sites pose no unacceptable risk. Restrictions in the deed regarding future activity on these sites may be required. SCIDA Priority- Sites in Kids Peace, Sites in PID/Whse, Sites in Conservation Area, Sites in Prison.

RCRA Closure

Seneca Army Depot Activity has an active Interim Storage Permit to operate as a Treatment, Storage, and Disposal Facility (TSDF). Two of the units identified in the permit require closure IAW the RCRA regulations. These two units are identified as SEAD 1; Bldg. 309 Hazardous Waste Storage and SEAD 2; Bldg. 301, PCB Storage. The closure plans for these two units have been accepted by the State and are currently in the public comment process. Upon completion of that the public comment period, the implementation of the Closure Plans will be initiated.

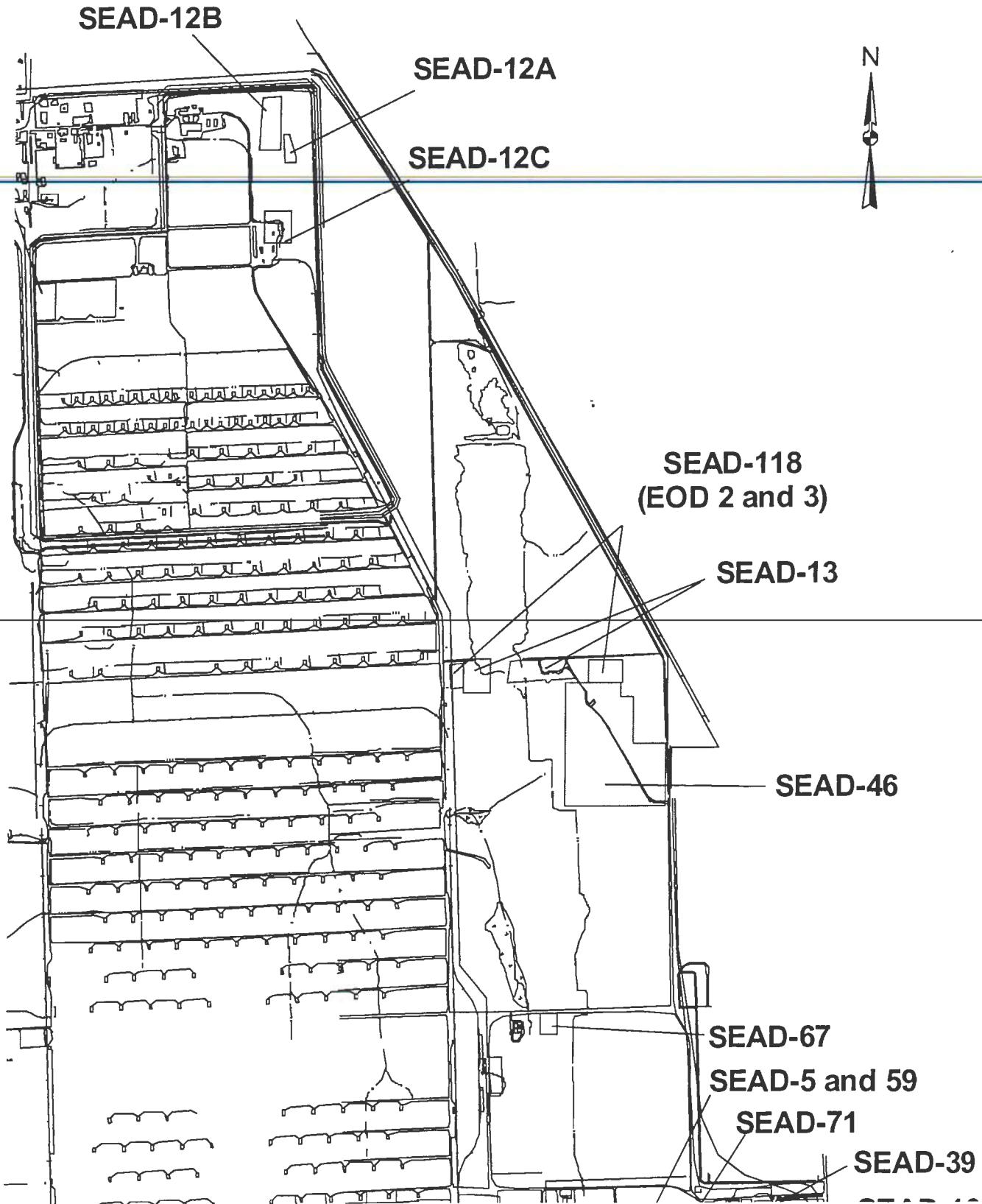
Risk: None Buildings are empty.

Fieldwork complete: September 2003

Permit terminated: November 2003

SENECA - NORTHEAST SECTION

1000 0 1000 2000 Feet



SENECA - NORTHWEST SECTION

1000 0 1000 2000 Feet



SEAD-115

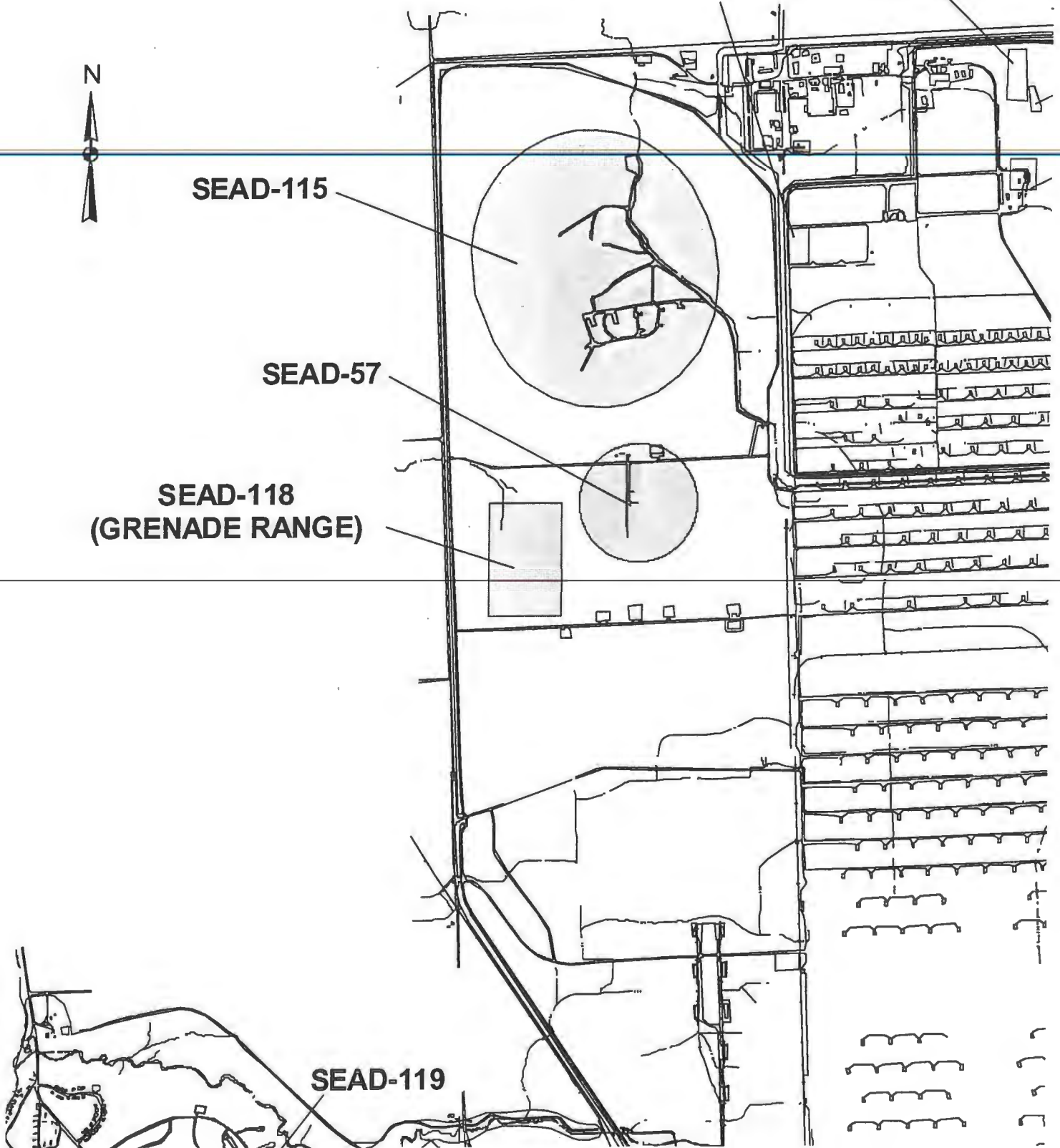
SEAD-63

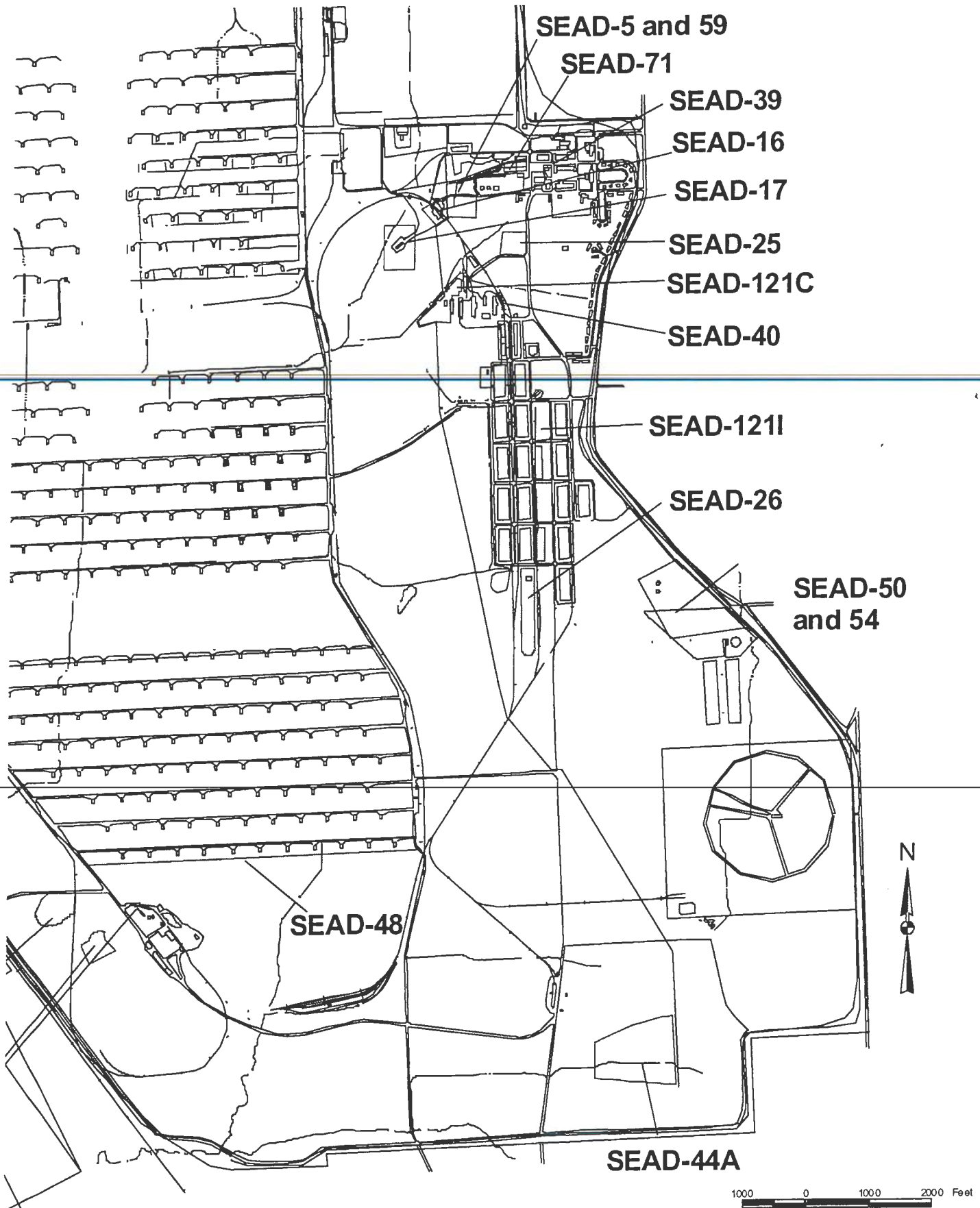
SEAD-12B

SEAD-57

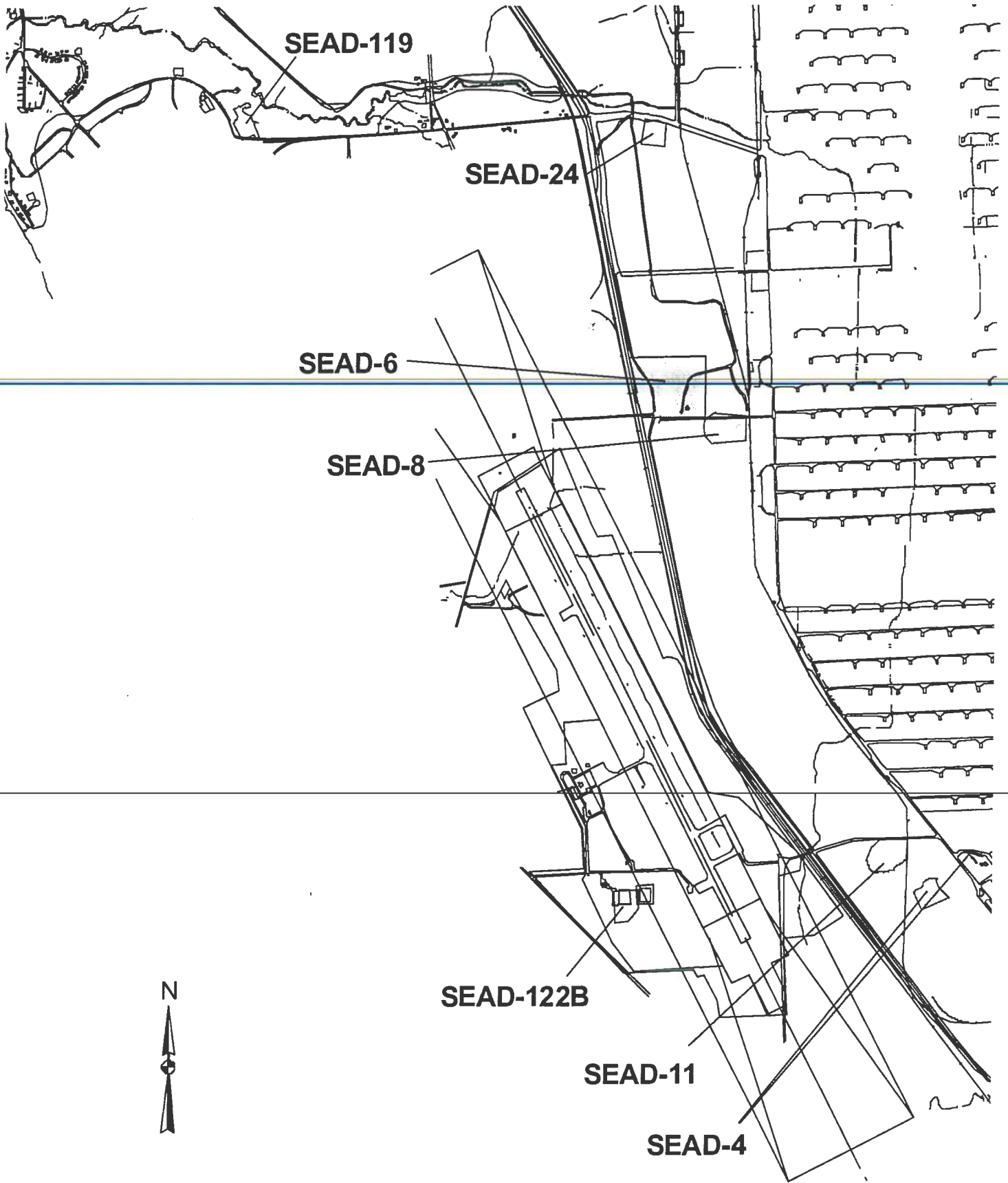
SEAD-118
(GRENADE RANGE)

SEAD-119





SENECA - SOUTHEAST SECTION



SENECA - SOUTHWEST SECTION

Remediation Action Plan

The remediation action plan is prepared to history of the site, identify the current status, the apparent risk from previous investigations, and a date that the site work is expected to be completed. The Dates provided are estimates.

PID / WHSE Area

SEAD 59 & SEAD 71- PAINT DISPOSAL AREAS

Acreage: 9 acres

Site History: Site consists of fill areas that debris was placed in.

Risk: Potential Ground water contamination from petroleum contamination found in the soil.

No risk remains from fill areas.

Status of Remediation: Removal action of the contaminated soil is complete. Evaluation of GW is being completed.

Site Work Completion Date: December 2003

SEAD 16- ABANDONED DEACTIVATION FURNACE

Acreage: 3 acres.

Site History: This unit was used to destroy small arms ammunition.

Risk. SEAD 16 Abandoned Deactivation Furnace: Facility has residual powder in piping and OE scrap that has potential for explosive residuals. There is heavy metals contamination in the soil.

Status of Remediation: Draft final Proposed Remedial Action Plan is under review and clean up levels are being negotiated. Remediation project scheduled for funding in FY 04.

Site Work Completion Date: N/A

RIP/RC Completion Date: August 2004

SEAD 17 - DEACTIVATION FURNACE

Acreage: 8 acres

Site History: This unit was used to destroy small arms ammunition.

Risk. SEAD 17 Deactivation Furnace: Facility has OE scrap that has potential for explosive residuals. There is heavy metals contamination in the soil.

Status of Remediation: Proposed Remedial Action Plan is under review and cleanup levels are being negotiated. Remediation project scheduled for funding in FY 04.

Site Work Completion Date: N/A

RIP/RC Completion Date: August 2004

SEAD 25 - FIRE DEMONSTRATION AREA

Acreage: 3.5 acres.

Site History: This site was used to demonstrate the installation fire fighting capability.

Risk: Volatiles in the soil contributing to GW contamination. Semi-volatiles in ditch line poses limited long term risk to child resident of the ditch

Status of Remediation: Proposed plan is approved and Record of Decision being prepared.

Site Work Completion Date: N/A

RIP/RC Completion Date: Feb 2004

SEAD 26 - FIRE TRAINING AREA

Acreage: 6.7 acres.

Site History: This site was used to practice fire fighting capability.

Risk: Semi-volatiles in surface soil and ditch line along railroad pose limited long term risk to child resident of the ditch.

Status of Remediation: Proposed plan is approved and Record of Decision being prepared.

Site Work Completion Date: N/A

RIP/RC Completion Date: Feb 2004

SEAD 121 - EBS SITE – INDUSTRIAL

Acreage: 23 Acres

Site History: DRMO yard and cosmoline steam cleaning site.

These sites have had a site investigation performed. PAHs (Semi-volatiles) have been found.

Solvents have been found in the ground water around the DRMO yard.

Risk: Soil contamination may pose threat to residential child.

Status of Remediation: RI field work completed and Report being prepared

Site Work Completion Date: N/A

RIP/RC Completion Date: December 2004

SEAD 50 - TANK FARM STORAGE

SEAD 54 - ASBESTOS STORAGE

Acreage: 26 acres

Sites History: These sites are where the Army stored material in above ground steel tanks.

Movement of the material resulted in contamination of the soil.

Status of Remediation: These two sites have a removal action underway. The action consists of excavation and disposal by land-filling the soil, which are contaminated with heavy metals.

Risk: none at end of ongoing removal action

Site Work Completion Date: Feb 2003

SEAD 38 - BUILDING 2079 BOILER BLOW DOWN PIT
SEAD 39 - BUILDING 121 BOILER BLOW DOWN PIT
SEAD 40 - BUILDING 319 BOILER BLOW DOWN PIT
SEAD 41 - BUILDING 718 BOILER BLOW DOWN PIT (Kids Peace)

Acreage: 1 acre combined

Site History: These sites consist of contamination resulting in the blow down of the central boilers, which was discharged to the ground. SEAD 41 Action completed at Kids Peace before transfer. SEAD 38 is also included in the SEAD 4 Area of concern.

Risk: Petroleum products may pose risk.

Status of Remediation: A removal action is scheduled for this year.

Site Work Completion Date: July 03

SEAD 5 - SLUDGE PILES

Acreage: 2 acres

Site History: This site is a result of the storage of domestic sewage sludge from the sewer treatment plant drying beds. The investigation revealed that the sludge has elevated level of heavy metals in it.

Risk: Heavy metals may pose threat to resident.

Status of Remediation: Removal action is scheduled for this year.

Site Work Completion Date: July 2003

SEAD 67 - DUMPSITE EAST OF STP4

Acreage: 2 acres

Site History: This site is identified as a location where unknown material was dumped. The site investigation revealed that the soil is contaminated with metals and the contaminants were localized.

Risk: Soil contamination may pose a risk to housing resident

Status of Remediation: This site has a removal action underway.

Site Work Completion Date: July 2003

DECOMMISSIONING SURVEYS

Size: 2 buildings (306 and 5)

Site History: Seneca has an NRC license that requires termination prior to allowing unrestricted access to the inside of the buildings. Field survey work completed. Final evaluation of risk pending final approval of objectives. Evaluation to expected to be completed in Spring of FY03 and before final transfer.

Risk: Potential residual depleted uranium material remains and which could impact interior surface of structure.

Status of Remediation: Fieldwork Complete. NRC has Final Plan for approval.

Site Work Completion Date: N/A

License Termination Date: November 2003

CONSERVATION AREA SITES

SEAD 46 & 57 - AMMUNITION DESTRUCTION AREAS

Acreage: 113 acres

Site History: These sites are where the Army performed destruction of ammunition by detonation or discharge. The site investigation of these sites revealed contamination of ordnance residual and heavy metals.

Risk: Sites have OE scrap that has potential for explosive residuals. There is heavy metals contamination in the soil.

Status of Remediation: Remediation project scheduled for funding in FY 03/04.

Site Work Completion Date: July 2004

SEAD 48 - PITCHBLEND E ORE STORAGE

Acreage: 55 acres

Site History: This site consists of 11 igloos that were used to store pitchblende ore. The igloos were decommissioned in the mid 1980s. Unrestricted access approval is on file from NRC, NYS and EPA. An extensive removal occurred during the decommissioning process however there is a concern for residuals under current standards. Further investigation will determine whether additional work is required.

Risk: Residual left from previous removal may have long term impact for residence.

Status of Remediation: Field work to be performed 2003.

Site Work Completion Date: N/A

NFA ROD Completion Date: January 2005

DECOMMISSIONING SURVEYS

Size: 105 igloos and 4 buildings

Site History: Seneca has an NRC license that requires termination prior to allowing unrestricted access to the inside of the buildings. Field survey work completed. Final evaluation of risk pending final approval of objectives. Evaluation to be completed in Spring of FY03 and before final transfer.

Risk: Potential residual depleted uranium material remains and which could impact interior surface of structure.

Status of Remediation: Fieldwork Complete. NRC has Final Plan for approval.

Site Work Completion Date: N/A

License Termination Date: November 2003

SEAD 63 - MISCELLANEOUS COMPONENTS BURIAL SITE

Acreage: 4 acres

History of Site: This site was used by the Army to bury classified military unique components.

Risk: Military unique items to be removed which have the potential to contain low level radiological contamination. Some heavy metal contamination may be present.

Status of Remediation: A removal action is approved and expected to start this April 2003

Site Work Completion Date: October 2003

SEAD 6 - ASH LANDFILL (including SEADs 3,8,14,15)

Acreage: 42 Acres

Site History: Site is former municipal waste deposal area. Heavy metals remain in the soil. TCE (solvent) is found in the ground water.

Risk: Ecological risk exists. Ground water wells will not be permitted.

Status of Remediation: This project has had the Proposed Remedial Action Plan accepted and ROD being prepared.

Site Work Completion Date: December 2003

SEAD 11 - OLD LANDFILL

Acreage: 6 acres

History of Site: Construction debris and other unknown items were disposed of at this site.

A site investigation conducted revealed contamination and unknown anomalies.

Risk: Heavy metals and solvent in the soil, unknown items in the fill area.

Status of Remediation: A removal action is planned for spring 03.

Site Work Completion Date: Feb 2004

SEAD 13 - INHIBITED RED FUMING NITRIC ACID (IRFNA)

Acreage: 11.5 acres

History of Site: This site was used by the army to neutralize IRFNA, a liquid propellant constituent. The acid was poured into a trench filled with limestone and water and was neutralized. Process resulted in nitrogen compounds being introduced into the ground water. This site is expected to require land use controls only.

Risk: Has excess nitrates above drinking water standards

Status of Remediation: Field work for base line complete. Decision Document under review.

Site Work Completion Date: N/A

RIP/RC Completion Date: May 2004

SEAD 4 - MUNITIONS WASHOUT FACILITY

Size: 4 acres

Site History: This site was used by the Army to wash out shell casing to remove explosives. Heavy metal contamination has been found in the soil.

Risk: None for industrial future use. Contaminants pose limited ecological concerns

Status of Remediation: The project is in the RI/FS process.

Site Work Completion Date: N/A

RIP/RC Completion Date: June 2005

SEAD 12 - RADIATION SITE

Size: 10.5 acres

History of Site: This site consists of the former Special Weapons Storage Area. Three areas where military unique items were buried and a localized groundwater plume contaminated with TCE was found during the remedial investigation. SEAD 72- Mixed Waste Storage Bldg. regulated under the Interim Status Hazardous Waste Permit will be closed out and incorporated into the ROD of the SEAD 12. This has potential to accelerate cleanup upon completion of the additional work that required.

Risk: Groundwater has localized TCE (solvent) plume

Status of Remediation: The site is in the RI/FS process.

Site Work Completion Date: N/A

RIP/RC Completion Date: Feb. 2007

SEAD 23 - OPEN BURNING GROUNDS

Acreage: 30 acres

Site History: The Army used this site for burning propellant, explosives and pyrotechnics to destroy unstable items. This site is within the boundary described by SEAD 115

Risk: See SEAD 115

Status of Remediation: The Record of Decision has been signed. The remedial action for this site is expected to be completed this year.

Site Work Completion Date: N/A

RIP/RC Completion Date: September 2003

SEAD 118 - ORDNANCE AND EXPLOSIVE SITES

Acreage: 48 acres

Site History: This site represents 3 areas where OE was found as a result of records search and site investigations. It is proposed to perform removal actions at the three locations and restrict the land use to surface activity.

Mission: site is actually 3 locations. Site A is a training range where 40 mm training grenades and 37 mm LAW sub-caliber training rounds were fired. Training rounds have small explosive charge that create the "puff of smoke" to indicate the location of round. Site 2 and 3 are adjacent each other and were used by EOD units for training. These sites have OE scrap that may have residual explosive contamination.

Risk: Sites that have OE scrap have potential for explosive residuals.

Status of Remediation: Remedial Action is scheduled for funding in FY 03.

Site Work Completion Date: May 2004

SEAD 24 - POWDER BURNING AREA

Acreage: 3.25 acres

Site History: This site was used in the late 40s early 50s to burn black powder and propellants. Investigation shows heavy metal contamination in the soil.

Risk: Soil contamination may pose a chronic risk to residents.

Status of Remediation: A removal action at this site is ongoing.

Site Work Completion Date: July 03

SEAD 115 - OPEN BURNING / OPEN DETONATION

Acreage: 400 acres

Site History: This site is where the Army performed destruction of ammunition by detonation or discharge. The site investigation of these site revealed contamination of ordnance residual and heavy metals.

Risk: Site has OE scrap that has potential for explosive residuals. There is heavy metals contamination in the soil.

Status of Remediation: Work to establish OE boundary is on going. Frequency of OE is to be established providing the information to be used in a proposed removal action.

Site Work Completion Date: Oct 2005

AIRFIELD SITE

SEAD 122 - SMALL ARMS RANGE AT AIRFIELD

Acreage: 4 Acres

Site History: This site has heavy metal contamination as a result for small arms qualifications by the military.

Risk: Soil contamination pose risk to onsite worker.

Status of Remediation: An action is expected this year.

Site Work Completion Date: May 2003

No Further Action Sites

20 No Further Action SWMUs are being incorporated into a Record of Decision. The Sites involved are as follows with locations identified:

SEAD 7 Shale Pit- Kids Peace
SEAD 10 Scrap Wood pile- PID
SEAD 18 Bldg 709 Classified Document Incinerator- Kids Peace
SEAD 19 Bldg. 801 Classified Document Incinerator- Conservation Area
SEAD 20 STP 4- Prison
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SEAD 22 STP 314- Sewer District
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SEAD 42 Bldg. 106 Preventive Medicine Laboratory- PID
SEAD 47 Bldg. 321 and 806 Radiation Calibration Source Storage *
SEAD 49 Bldg. 356 Columbite Ore Storage Area- Whse (Enclave)
SEAD 51 Herbicide Usage Perimeter of High Security Area – Conservation *
SEAD 53 Ammunition Storage- Conservation Area *
SEAD 55 Bldg. 357 Tannin Storage – Whse. (Enclave)
SEAD 60 Oil Discharge Area Bldg. 609- Prison
SEAD 65 Acid Storage Area – Prison

Status- Record of Decisions are Draft and under Army Review. Submission to the EPA and DEC 15 Mar 2003. The Decision Document has been review by all parties and comments have been satisfactorily addressed. The site with the * are areas that are under discussion with EPA and State regarding the appropriateness of the no action determination.
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Mini- Risk Sites to No Further Action

The Army position for this group of sites is that there contaminant levels found during the Expanded Site Investigation are at such level that no further action is needed. The decision document establishing this position is under review by the Agencies. The sites included in this grouping are as follows:

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SEAD 44; QA Function Test Laboratory - Prison
SEAD 52; Ammunition Break Down Area – Prison
SEAD 56; Bldg. 606 Herbicide /Pesticide Storage Area – Prison
SEAD 58; Debris Area near Bldg. 2131- Conservation Area - Prison
SEAD 62; Nicotine Sulfate Disposal Area – Prison
SEAD 64a; Garbage Disposal Area - Whse.
SEAD 64b; Garbage Disposal Area- Conservation
SEAD 64c; Garbage Disposal Area- Prison
SEAD 64d; Garbage Disposal Area- Conservation
SEAD 66 Pesticide Storage Area by Bldg. 5&6 - PID
SEAD 68; Bldg. 335 Old Pest Control Shop – Whse.
SEAD 69; Bldg. 606 Disposal Area - Prison
SEAD 70; Fill Area Adjacent Bldg. T-2110 - Conservation
SEAD 120B; Ovid Road Small Arms Range – Prison

Investigation on these sites resulted in the finding of minimal releases. When Risk assessments were prepared using the maximum level of contamination found, there was now risk when compared to the plan future use of the property. These sites pose no unacceptable risk. Restrictions in the deed regarding future activity on these sites may be required. SCIDA Priority- Sites in Kids Peace, Sites in PID/Whse, Sites in Conservation Area, Sites in Prison.

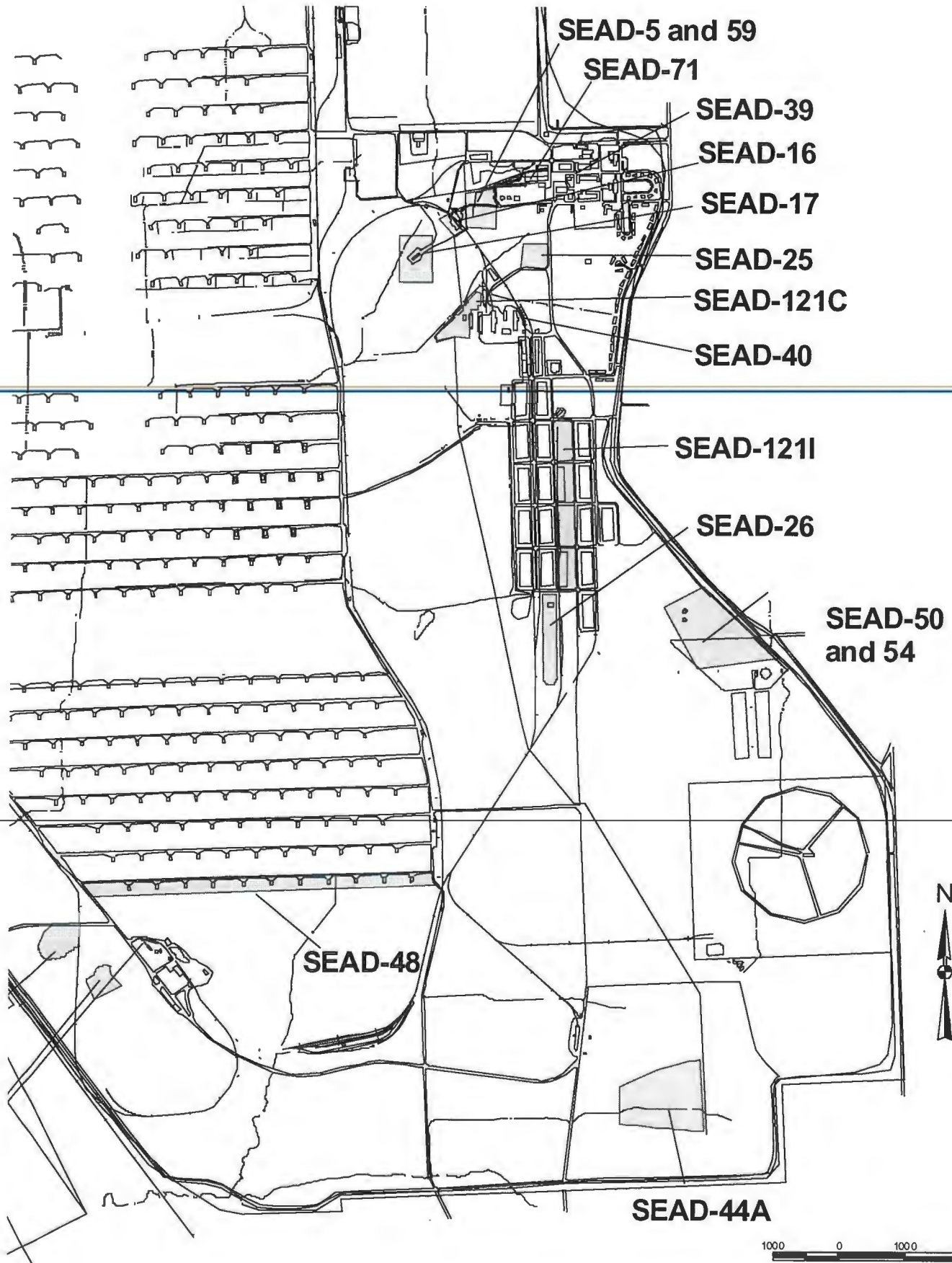
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Risk: None Buildings are empty.

Fieldwork complete: September 2003

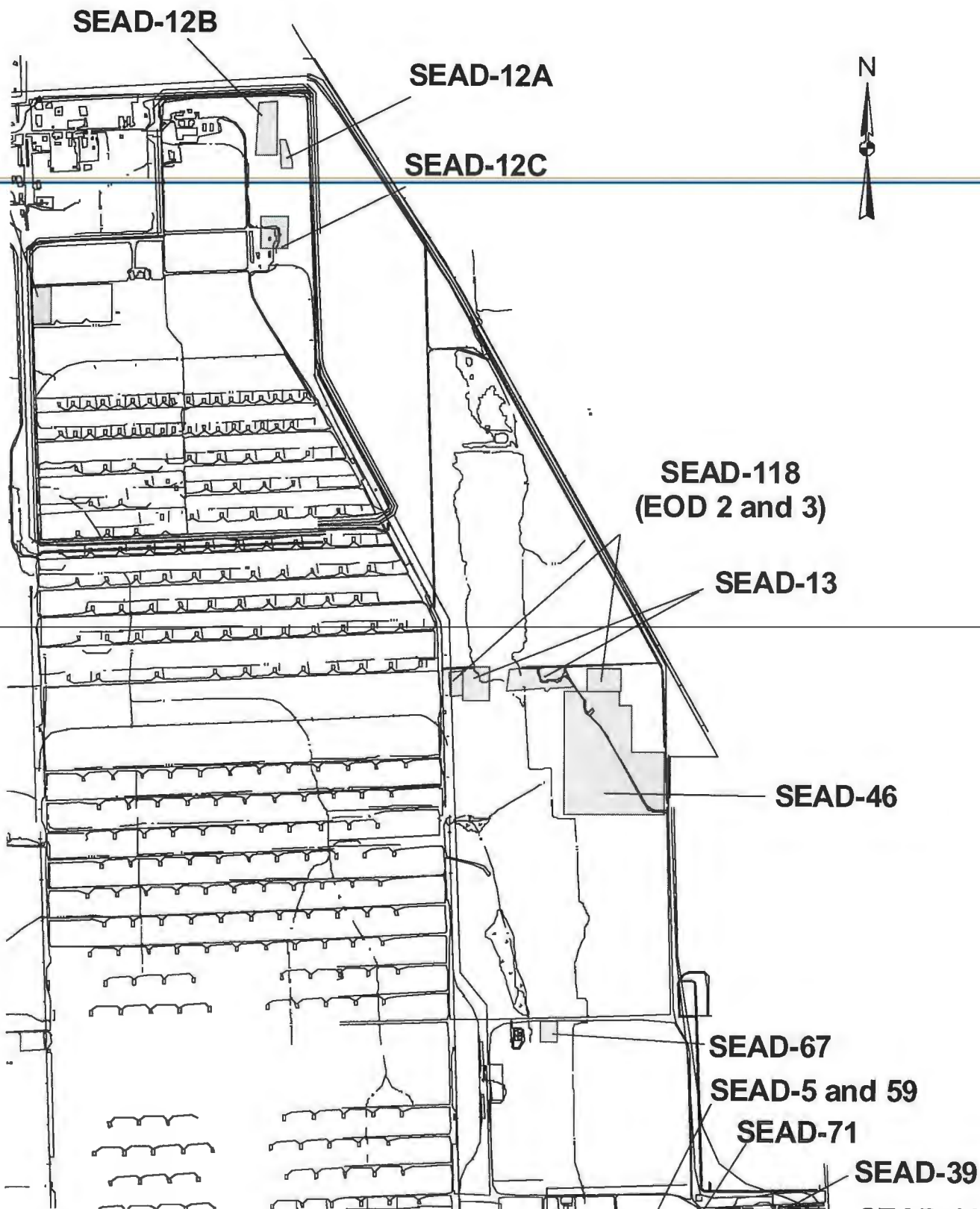
Permit terminated: November 2003



SENECA - SOUTHEAST SECTION

SENECA - NORTHEAST SECTION

1000 0 1000 2000 Feet



SENECA - NORTHWEST SECTION

1000 0 1000 2000 Feet



SEAD-63

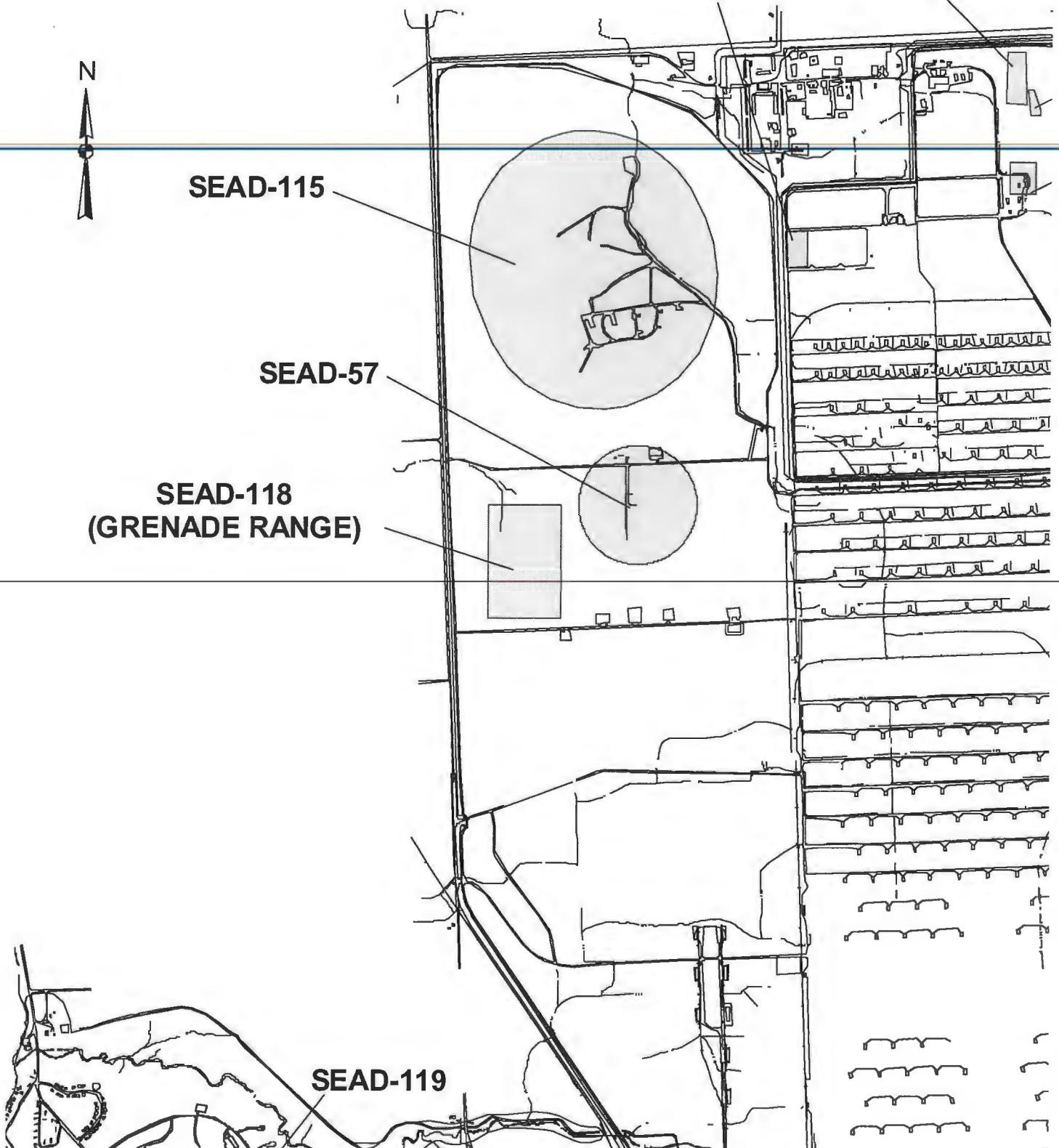
SEAD-12B

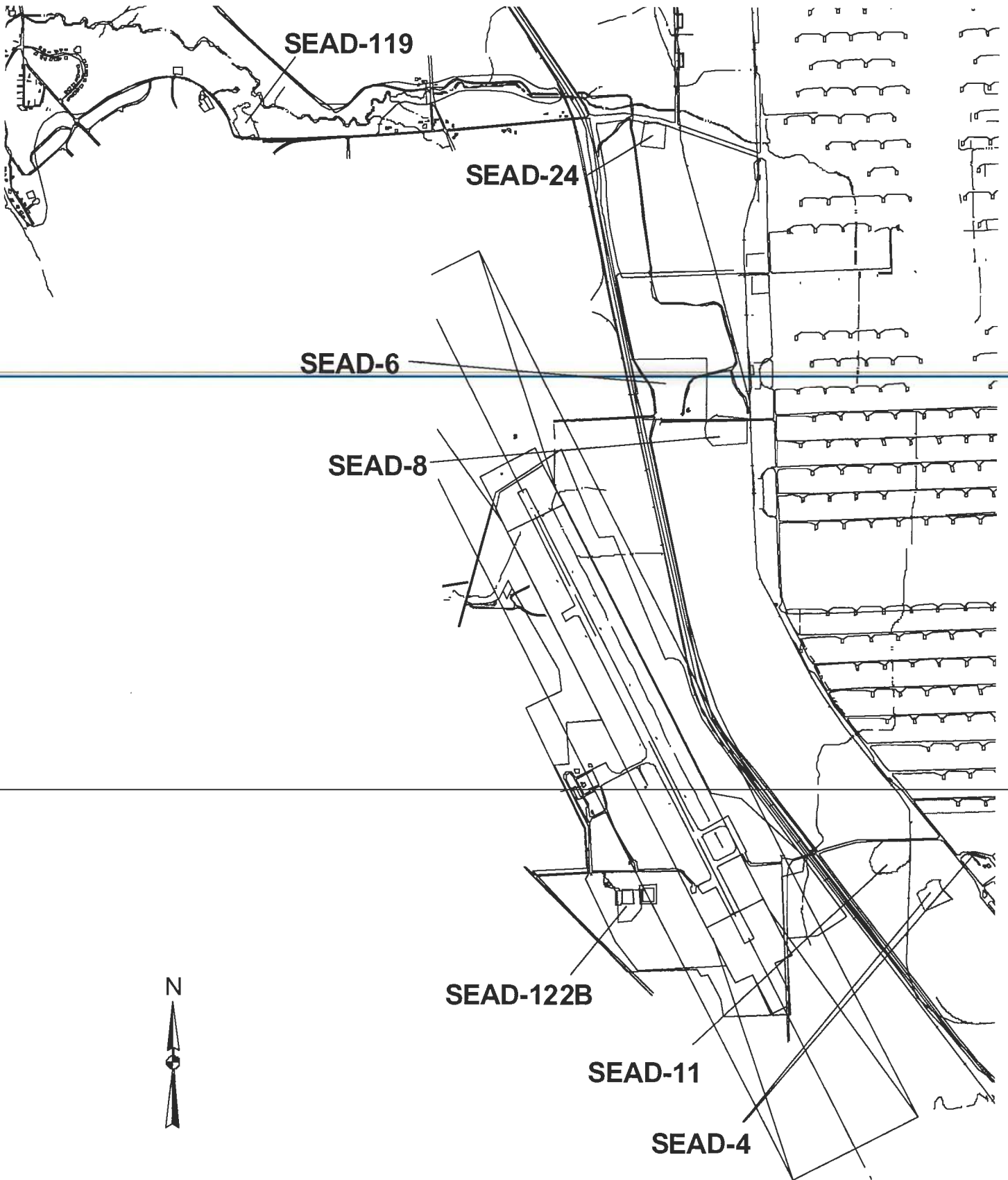
SEAD-115

SEAD-57

SEAD-118
(GRENADE RANGE)

SEAD-119





SENECA - SOUTHWEST SECTION

Remediation Action Plan

The remediation action plan is prepared to history of the site, identify the current status, the apparent risk from previous investigations, and a date that the site work is expected to be completed. The Dates provided are estimates.

PID / WHSE Area

SEAD 59 & SEAD 71- PAINT DISPOSAL AREAS

Acreage: 9 acres

Site History: Site consists of fill areas that debris was placed in.

Risk: Potential Ground water contamination from petroleum contamination found in the soil.

No risk remains from fill areas.

Status of Remediation: Removal action of the contaminated soil is complete. Evaluation of GW is being completed.

Site Work Completion Date: December 2003

SEAD 16- ABANDONED DEACTIVATION FURNACE

Acreage: 3 acres.

Site History: This unit was used to destroy small arms ammunition.

Risk. SEAD 16 Abandoned Deactivation Furnace: Facility has residual powder in piping and OE scrap that has potential for explosive residuals. There is heavy metals contamination in the soil.

Status of Remediation: Draft final Proposed Remedial Action Plan is under review and clean up levels are being negotiated. Remediation project scheduled for funding in FY 04.

Site Work Completion Date: N/A

RIP/RC Completion Date: August 2004

SEAD 17 - DEACTIVATION FURNACE

Acreage: 8 acres

Site History: This unit was used to destroy small arms ammunition.

Risk. SEAD 17 Deactivation Furnace: Facility has OE scrap that has potential for explosive residuals. There is heavy metals contamination in the soil.

Status of Remediation: Proposed Remedial Action Plan is under review and cleanup levels are being negotiated. Remediation project scheduled for funding in FY 04.

Site Work Completion Date: N/A

RIP/RC Completion Date: August 2004

SEAD 25 - FIRE DEMONSTRATION AREA

Acreage: 3.5 acres.

Site History: This site was used to demonstrate the installation fire fighting capability.

Risk: Volatiles in the soil contributing to GW contamination. Semi-volatiles in ditch line poses limited long term risk to child resident of the ditch

Status of Remediation: Proposed plan is approved and Record of Decision being prepared.

Site Work Completion Date: N/A

RIP/RC Completion Date: Feb 2004

SEAD 26 - FIRE TRAINING AREA

Acreage: 6.7 acres.

Site History: This site was used to practice fire fighting capability.

Risk: Semi-volatiles in surface soil and ditch line along railroad pose limited long term risk to child resident of the ditch.

Status of Remediation: Proposed plan is approved and Record of Decision being prepared.

Site Work Completion Date: N/A

RIP/RC Completion Date: Feb 2004

SEAD 121 - EBS SITE – INDUSTRIAL

Acreage: 23 Acres

Site History: DRMO yard and cosmoline steam cleaning site.

These sites have had a site investigation performed. PAHs (Semi-volatiles) have been found.

Solvents have been found in the ground water around the DRMO yard.

Risk: Soil contamination may pose threat to residential child.

Status of Remediation: RI field work completed and Report being prepared

Site Work Completion Date: N/A

RIP/RC Completion Date: December 2004

SEAD 50 - TANK FARM STORAGE

SEAD 54 - ASBESTOS STORAGE

Acreage: 26 acres

Sites History: These sites are where the Army stored material in above ground steel tanks.

Movement of the material resulted in contamination of the soil.

Status of Remediation: These two sites have a removal action underway. The action consists of excavation and disposal by land-filling the soil, which are contaminated with heavy metals.

Risk: none at end of ongoing removal action

Site Work Completion Date: Feb 2003

SEAD 38 - BUILDING 2079 BOILER BLOW DOWN PIT
SEAD 39 - BUILDING 121 BOILER BLOW DOWN PIT
SEAD 40 - BUILDING 319 BOILER BLOW DOWN PIT
SEAD 41 – BUILDING 718 BOILER BLOW DOWN PIT (Kids Peace)

Acreage: 1 acre combined

Site History: These sites consist of contamination resulting in the blow down of the central boilers, which was discharged to the ground. SEAD 41 Action completed at Kids Peace before transfer. SEAD 38 is also included in the SEAD 4 Area of concern.

Risk: Petroleum products may pose risk.

Status of Remediation: A removal action is scheduled for this year.

Site Work Completion Date: July 03

SEAD 5 - SLUDGE PILES

Acreage: 2 acres

Site History: This site is a result of the storage of domestic sewage sludge from the sewer treatment plant drying beds. The investigation revealed that the sludge has elevated level of heavy metals in it.

Risk: Heavy metals may pose threat to resident.

Status of Remediation: Removal action is scheduled for this year.

Site Work Completion Date: July 2003

SEAD 67 - DUMPSITE EAST OF STP4

Acreage: 2 acres

Site History: This site is identified as a location where unknown material was dumped. The site investigation revealed that the soil is contaminated with metals and the contaminants were localized.

Risk: Soil contamination may pose a risk to housing resident

Status of Remediation: This site has a removal action underway.

Site Work Completion Date: July 2003

DECOMMISSIONING SURVEYS

Size: 2 buildings (306 and 5)

Site History: Seneca has an NRC license that requires termination prior to allowing unrestricted access to the inside of the buildings. Field survey work completed. Final evaluation of risk pending final approval of objectives. Evaluation to expected to be completed in Spring of FY03 and before final transfer.

Risk: Potential residual depleted uranium material remains and which could impact interior surface of structure.

Status of Remediation: Fieldwork Complete. NRC has Final Plan for approval.

Site Work Completion Date: N/A

License Termination Date: November 2003

CONSERVATION AREA SITES

SEAD 46 &57 - AMMUNITION DISTRUCTION AREAS

Acreage: 113 acres

Site History: These sites are where the Army performed destruction of ammunition by detonation or discharge. The site investigation of these sites revealed contamination of ordnance residual and heavy metals.

Risk: Sites have OE scrap that has potential for explosive residuals. There is heavy metals contamination in the soil.

Status of Remediation: Remediation project scheduled for funding in FY 03/04.

Site Work Completion Date: July 2004

SEAD 48 - PITCHBLENDE ORE STORAGE

Acreage: 55 acres

Site History: This site consists of 11 igloos that were used to store pitchblende ore. The igloos were decommissioned in the mid 1980s. Unrestricted access approval is on file from NRC, NYS and EPA. An extensive removal occurred during the decommissioning process however there is a concern for residuals under current standards. Further investigation will determine whether additional work is required.

Risk: Residual left from previous removal may have long term impact for residence.

Status of Remediation: Field work to be performed 2003.

Site Work Completion Date: N/A

NFA ROD Completion Date: January 2005

DECOMMISSIONING SURVEYS

Size: 105 igloos and 4 buildings

Site History: Seneca has an NRC license that requires termination prior to allowing unrestricted access to the inside of the buildings. Field survey work completed. Final evaluation of risk pending final approval of objectives. Evaluation to expected to be completed in Spring of FY03 and before final transfer.

Risk: Potential residual depleted uranium material remains and which could impact interior surface of structure.

Status of Remediation: Fieldwork Complete. NRC has Final Plan for approval.

Site Work Completion Date: N/A

License Termination Date: November 2003

SEAD 63 - MISCELLANEOUS COMPONENTS BURIAL SITE

Acreage: 4 acres

History of Site: This site was use by the Army to bury classified military unique components.

Risk: Military unique items to be removed which have the potential to contain low level radiological contamination. Some heavy metal contamination may be present.

Status of Remediation: A removal action is approved and expected to start this April 2003

Site Work Completion Date: October 2003

SEAD 6 - ASH LANDFILL (including SEADs 3,8,14,15)

Acreage: 42 Acres

Site History: Site is former municipal waste disposal area. Heavy metals remain in the soil. TCE (solvent) is found in the ground water.

Risk: Ecological risk exists. Ground water wells will not be permitted.

Status of Remediation: This project has had the Proposed Remedial Action Plan accepted and ROD being prepared.

Site Work Completion Date: December 2003

SEAD 11 - OLD LANDFILL

Acreage: 6 acres

History of Site: Construction debris and other unknown items were disposed of at this site.

A site investigation conducted revealed contamination and unknown anomalies.

Risk: Heavy metals and solvent in the soil, unknown items in the fill area.

Status of Remediation: A removal action is planned for spring 03.

Site Work Completion Date: Feb 2004

SEAD 13 - INHIBITED RED FUMING NITRIC ACID (IRFNA)

Acreage: 11.5 acres

History of Site: This site was used by the army to neutralize IRFNA, a liquid propellant constituent. The acid was poured into a trench filled with limestone and water and was neutralized. Process resulted in nitrogen compounds being introduced into the ground water.

This site is expected to require land use controls only.

Risk: Has excess nitrates above drinking water standards

Status of Remediation: Field work for base line complete. Decision Document under review.

Site Work Completion Date: N/A

RIP/RC Completion Date: May 2004

SEAD 4 - MUNITIONS WASHOUT FACILITY

Size: 4 acres

Site History: This site was used by the Army to wash out shell casing to remove explosives.

Heavy metal contamination has been found in the soil.

Risk: None for industrial future use. Contaminants pose limited ecological concerns

Status of Remediation: The project is in the RI/FS process.

Site Work Completion Date: N/A

RIP/RC Completion Date: June 2005

SEAD 12 - RADIATION SITE

Size: 10.5 acres

History of Site: This site consists of the former Special Weapons Storage Area. Three areas where military unique items were buried and a localized groundwater plume contaminated with TCE was found during the remedial investigation. SEAD 72- Mixed Waste Storage Bldg. regulated under the Interim Status Hazardous Waste Permit will be closed out and incorporated into the ROD of the SEAD 12. This has potential to accelerate cleanup upon completion of the additional work that required.

Risk: Groundwater has localized TCE (solvent) plume

Status of Remediation: The site is in the RI/FS process.

Site Work Completion Date: N/A

RIP/RC Completion Date: Feb. 2007

SEAD 23 - OPEN BURNING GROUNDS

Acreage: 30 acres

Site History: The Army used this site for burning propellant, explosives and pyrotechnics to destroy unstable items. This site is within the boundary described by SEAD 115

Risk: See SEAD 115

Status of Remediation: The Record of Decision has been signed. The remedial action for this site is expected to be completed this year.

Site Work Completion Date: N/A

RIP/RC Completion Date: September 2003

SEAD 118 - ORDNANCE AND EXPLOSIVE SITES

Acreage: 48 acres

Site History: This site represents 3 areas where OE was found as a result of records search and site investigations. It is proposed to perform removal actions at the three locations and restrict the land use to surface activity.

Mission: site is actually 3 locations. Site A is a training range where 40 mm training grenades and 37 mm LAW sub-caliber training rounds were fired. Training rounds have small explosive charge that create the "puff of smoke" to indicate the location of round. Site 2 and 3 are adjacent each other and were used by EOD units for training. These sites have OE scrap that may have residual explosive contamination.

Risk: Sites that have OE scrap have potential for explosive residuals.

Status of Remediation: Remedial Action is scheduled for funding in FY 03.

Site Work Completion Date: May 2004

SEAD 24 - POWDER BURNING AREA

Acreage: 3.25 acres

Site History: This site was used in the late 40s early 50s to burn black powder and propellants. Investigation shows heavy metal contamination in the soil.

Risk: Soil contamination may pose a chronic risk to residents.

Status of Remediation: A removal action at this site is ongoing.

Site Work Completion Date: July 03

SEAD 115 - OPEN BURNING / OPEN DETONATION

Acreage: 400 acres

Site History: This site is where the Army performed destruction of ammunition by detonation or discharge. The site investigation of these site revealed contamination of ordnance residual and heavy metals.

Risk: Site has OE scrap that has potential for explosive residuals. There is heavy metals contamination in the soil.

Status of Remediation: Work to establish OE boundary is on going. Frequency of OE is to be established providing the information to be used in a proposed removal action.

Site Work Completion Date: Oct 2005

AIRFIELD SITE

SEAD 122 - SMALL ARMS RANGE AT AIRFIELD

Acreage: 4 Acres

Site History: This site has heavy metal contamination as a result for small arms qualifications by the military.

Risk: Soil contamination pose risk to onsite worker.

Status of Remediation: An action is expected this year.

Site Work Completion Date: May 2003

No Further Action Sites

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SEAD 64b; Garbage Disposal Area- Conservation
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SEAD 64d; Garbage Disposal Area- Conservation
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Risk: None Buildings are empty.

Fieldwork complete: September 2003

Permit terminated: November 2003

file
2003
6/17/03

MINUTES
RESTORATION ADVISORY BOARD
June 17, 2003

1. ATTENDANCE:

Government RAB Members Present:

Stephen Absolom, U.S. Army Co-Chair; Julio Vazquez, US Environmental Protection Agency; Mike Johnson, NYSDEC; George Momberger, NYSDEC,

Government RAB Members Excused: Charlotte Bethany, NYS Department of Health,

Community RAB Members Present:

Karen Tackett, Community Co-Chair; Fred Swain, Pat Jones, SCIDA

Community RAB Members Not Present:

Dave Schneider, Carmen Serrett, Frank Ives, David Wagner, Frankie Young-Long, Robert McCann, Russell Miller, Henry Van Ness,

Environmental Support Personnel and Guests Present:

Randy Battaglia, COE, New York District, Tom Enroth, COE, New York District; Janet Fallo, COE, New York District; Chris Boes, Army Environmental Center; Kevin Healey, COE, Huntsville; Marshall Greene, COE Huntsville; Jackie Travers, Parsons; Chris Raddell, Parsons; Katie Kadlubak, Parsons; John Hackett, Parsons; John Brod, ENSR; Nancy Williamson, Recording Secretary

2. Mr. Absolom called the meeting to order at 7:05 p.m. New attendees, Mr. Mike Johnson and Mr. George Momberger of NYSDEC were introduced. He asked everyone else to introduce themselves and thanked all for coming.

3. Mr. Absolom asked for additions/corrections to minutes from September 2002 and March 2003. There being none, the minutes were signed into the record.

4. When introducing the agenda for the evening, Mr. Absolom apologized for postponing the scheduled May RAB meeting because issues had arisen causing conflicting meetings.

5. Jackie Travers, Parsons, began the presentation on SEAD-48, E0800 Row, the Pitch Blend Ore Storage Bunkers. The Power Point handout (enclosed) shows a map of the area and a photograph of one of the bunkers. Ms. Travers explained the history of the site including previous site investigations and remediation. The reasons the site is undergoing further testing is because the depot property ~~will be transferred to the public (change of future use)~~ and because survey procedures and cleanup goals have changed.

She then explained key terms used in discussion of radiation. The cleanup goals for NRC, EPA and NYSDEC each differ in amount of mrem/year acceptable for a "clean" site. She compared those goals to the amount of radiation a person may be exposed to in a typical year.

Comment: Mr. Absolom explained that each agency wants to lessen the risk by not allowing more than what a person is normally exposed to.

Ms. Travers introduced Katie Kadlubak of Parsons to describe the field investigations. Surveys of igloos are performed to detect alpha, beta and gamma radiation. Interior Survey uses four methods: Direct - by instrument in 2-meter X 2-meter grid; Scanning across the grid areas to get readings; Wiping to detect removable contamination; and Material Samples - pieces of concrete knocked off and sent out for testing to compare to normal levels in concrete.

Exterior surveying is done in 10-meter X 10-meter grids. In addition to Direct and Scan methods, surface and subsurface soil is sampled as well as ground water. Exterior examination is from the pads in front to the base of the igloo pads in back and from side to side. The front pads and doorsteps get special attention.

Mr. Swain asked what the background level was. After lengthy discussion it was determined to be 86 mrem/year.

Analysis is done using MARSSIM guidance of background vs. DCGL.

Mr. John Hackett, Parsons, followed Ms. Kadlubak. He is the Health Physicist and radiation expert on the site. Mr. Hackett described the instruments used to detect the different types of radiation.

For Gamma Radiation Detection:

- Bicron G5 FIDLER (Field Instrument for the Detection of Low Energy Radiation) using thin 2mm thick crystal to detect low level gamma and used on interiors.
- 3" X 3" NaI Detector - more input from sides rather than just bottom of instrument. Used outside because can detect higher energy rays coming through the soil.
- Bicron MicroRem - obtains ambient reading and converts to hourly dose (for safety of workers).
- URSA (Universal Radiation Spectrum Analyzer) - gamma spectroscopy detectors. Used to identify what we're seeing and compare to background measurement.

For Alpha/Beta Radiation Detection:

- Ludlum model 43-1 dual phosphor scintillator probe (phoswich) - detects both alpha and beta - foil on end/light flashes different for alpha and beta, used on walls and ceilings.
- 43-37 large area gas proportional probe (Floor & lower walls Monitor) - uses inert gas to detect (like vacuum cleaner).

Q: You grid an area, bring the instrument—how do you record findings?

A: We record minimum/maximum Scanning readings and Direct in center of grid. Same with FIDLER for gamma. Smears are done. Material samples will be done later—on hot (elevated) spots.

Q: How many people are used?

A: Three people on nine igloos. Three igloos are class #1 (most intensive). 100% of grid is done in seven days.

Q: Others classes?

A: 100% floor and lower wall and 50% upper wall taking 3 days.

Class 1 = highest probability of findings
Class 2 = Possible
Class 3 = Least probable

Class 1 may have been remediated already.

Of the eleven igloos, 3 are class #1, 5 are classes #1-2, and 3 are class #3.

Comment: Classification of igloos is based on historical findings before they were reexamined.

Q: When the site was last remediated, was clean fill put in or were holes left?

A: Concrete was removed and holes left. Work was done around them, the area grated and dug down. However, maintenance efforts may have buried it.

Comment: Cleanup was done in the '80's. There could be condensation in drains in two igloos. There was some spill on the concrete. It was vacuumed, but a jackhammer had to be used to get it out.

Q: Using the MicroRem Reader, can you get so many miillirem? Background 10 microrem per/hour.

Do you ever use it outside microrem p/hr vs. milirem p/yr?

Mr. Hackett then showed several of the instruments in operation and a laptop graph display when attached to one.

6. Property Transfers.

Mr. Absolom indicated that the Army continues to prepare documents for transfer of the PID/Warehouse area. They're working on Land Use Restrictions for residency and ground water through the Proposed Plan and ROD.

Q: Have you figured out enforcement of the Land Use Restrictions?

A: There will be continued monitoring. We expect there to be annual certification that the land is used for industrial purposed only. There are CERCLA restrictions. Based on what's happening between DOD and EPA, we're working on the process of Land Use Restrictions through

Permits. We are still targeting 30 September 2003 for transfer.

The Conservation Area also has target date of 30 September 2003. It will transfer with no Land Use Restrictions. Environmental sites requiring remediation will be retained by the Army until the CERCLA process is complete. We will only transfer clean property. The Army is working with the State and EPA to make it happen by 30 September 2003. A big effort by all is needed for all documents to be properly executed. It's do-able but highly optimistic. Two Plans and two RODs are required. The No Action/No Further Action documents should be able to move ahead. Plan and ROD for areas with institutional controls are still in dispute between DOD and EPA. It could be a stumbling block for the PID area transfer.

This summer there will be several Public Meetings scheduled between 18-30 July.

- Proposed Plan for No Action Sites
- Proposed Plan for Land Use Controls

Two other Public Meetings are anticipated.

- Ash Landfill - Final Proposed Plan (trenches, fill)
- SEAD-11 construction debris - 5 acres at Airfield/Ammo Storage site. Removal Action proposed. To complete Decision Document and determine how to contract work plans to commence removal in the spring.

7. Open Discussion

Q: Are you still looking for the Airfield to transfer by the end of December?

A: Yes.

Q: If you may transfer by 30 September, is the group selected

Pat Jones: Yes.

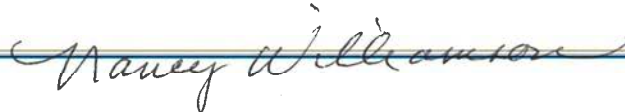
Q: Is the housing tail going with the warehouse area?

A: Yes.

8. The next meeting of the RAB if we take off July and August, should be September 16. Mr. Absolom thanked everyone for coming.

There being no further discussion or questions, the meeting was adjourned at eight twenty-four.

Respectfully submitted,



NANCY WILLIAMSON
Recording Secretary

Enclosures

APPROVED AS SUBMITTED:



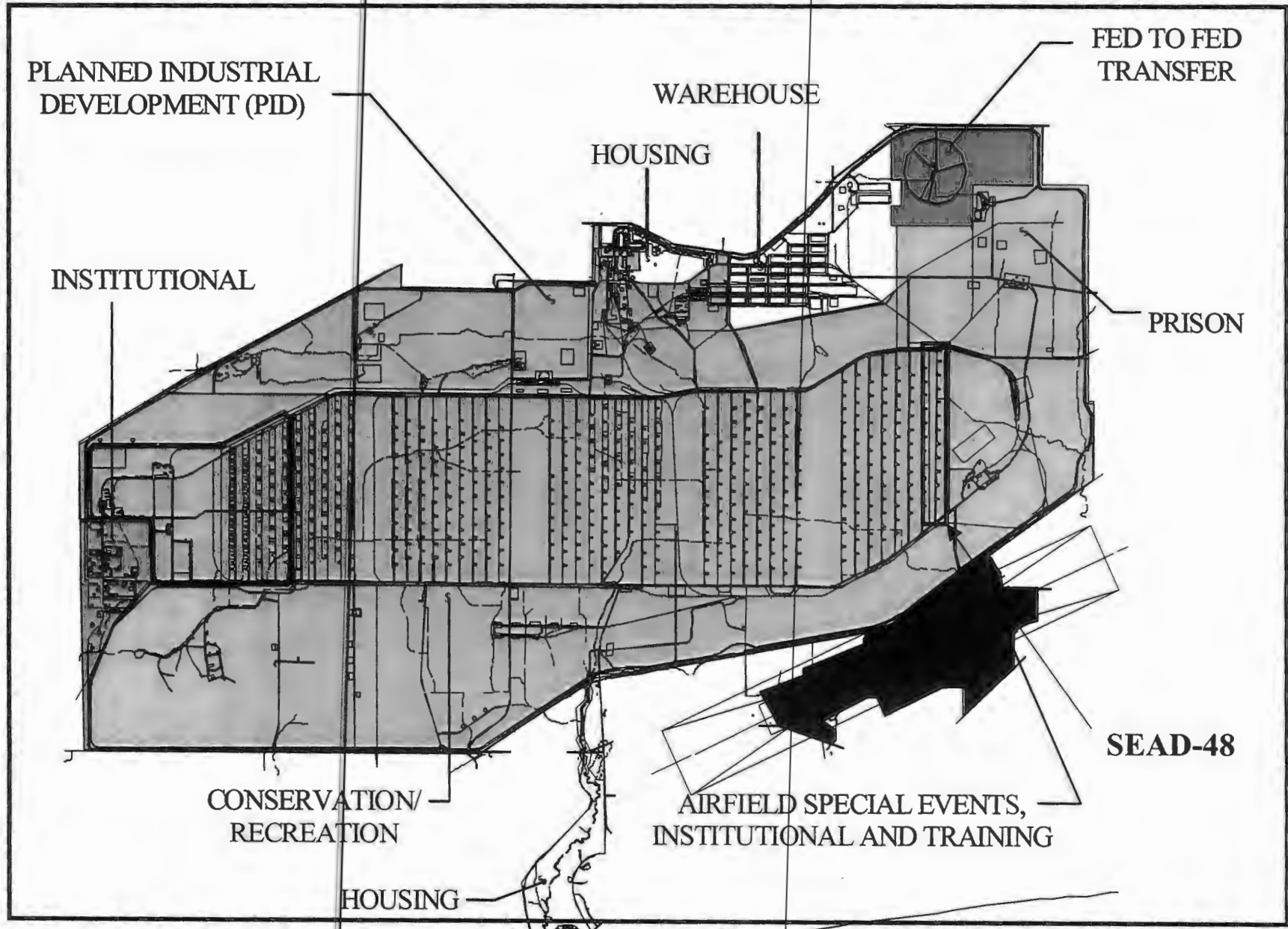
STEPHEN M. ABSOLOM
U.S. Army Co-Chair



Karen Tackett
Community Co-Chair

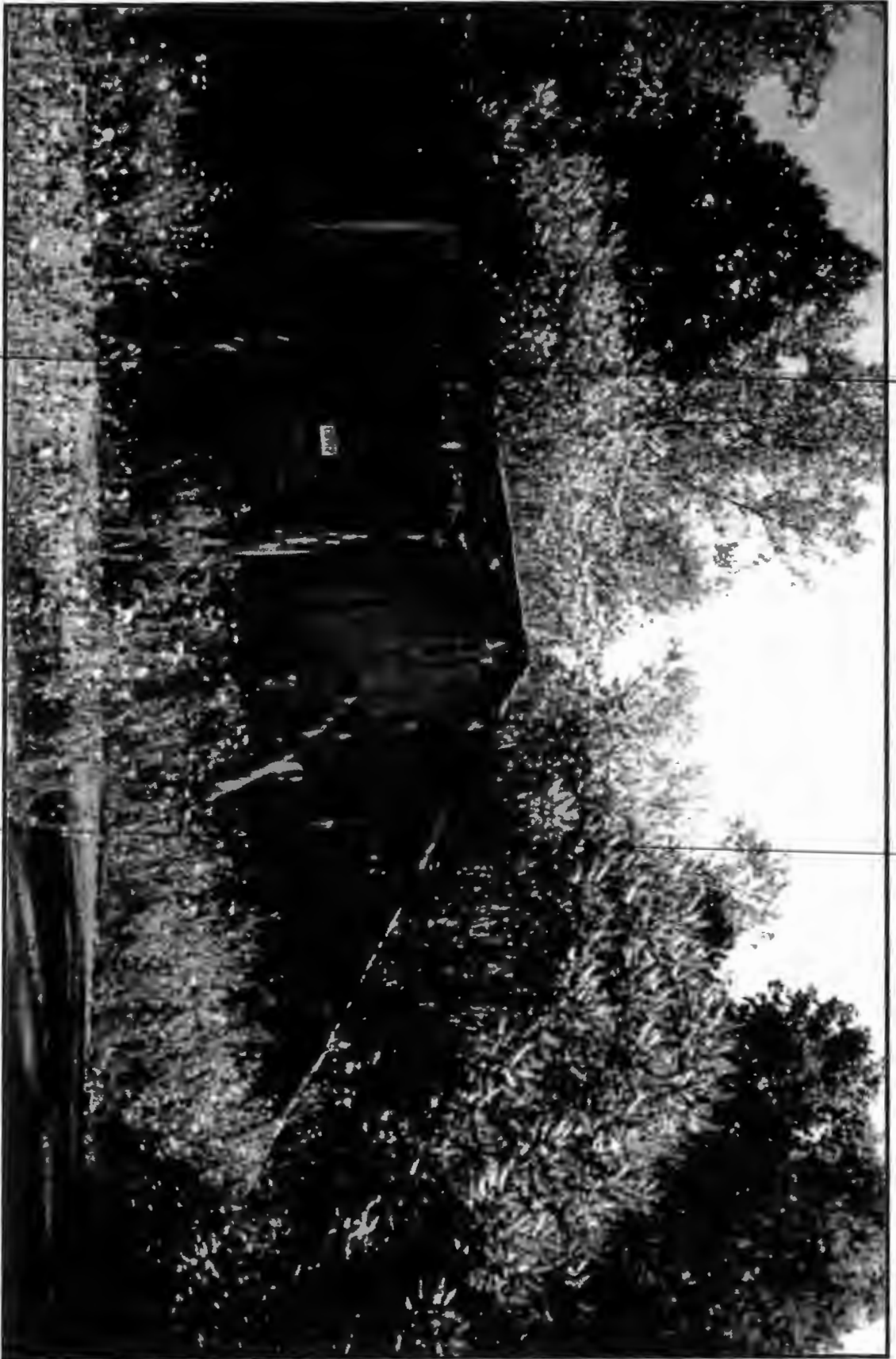
E0800 Row Pitchblende Ore
Storage Bunkers
(SEAD-48)





PARSONS





PARSONS



History of SEAD-48

- Stored pitchblende ore in the 1940s used in the Manhattan Project.
- Approximately 1,823 barrels of pitchblende ore were stored for a few months.
- Storage site for non-radioactive army munitions through the 1970s.
- Site investigations in 1976, 1980, and 1985 indicated that Ra-226, U-234, U-235 and U-238 were elevated.



History of SEAD-48 (con't)

- The bunkers were surveyed and remediated in the mid 1980s to allow unrestricted use per the U.S. Nuclear Regulatory Commission (NRC).
- 1987 – NRC performed limited sampling and deemed site adequate for unrestricted use.
- 1993 – NYSDEC performed additional field sampling and results indicated that residual contamination may exist.



What Changed and Why is Further Investigation Necessary?

- Future Use
- Procedure for conducting surveys
- Cleanup goal



Key Terms

- MARSSIM: Multi Agency Radiation Survey and Site Investigation Manual
- DCGL: Derived Concentration Guideline Level. The concentration of residual radioactivity distinguishable from background that, if uniformly distributed throughout a survey unit, would result in a defined total effective dose equivalent (TEDE) to an average member of a critical group.



Clean-up Goal

- 25 mrem/year (NRC)
- 15 mrem/year (USEPA)
- 10 mrem/year
(NYSDEC TAGM-4003)



Radiation You're Exposed To

- Chest X-Ray – 8 mrem/x-ray
- Cross-country flight – 5 mrem/flight
- Body CT scan – 111 mrem
- Natural Background – 360 mrem/year
- Smoking 1 pack a day – 1300 mrem/year

Source: The Health Physics and Radiological Health Handbook, B. Shlein, Scinta Inc. 1992
“The Catalogue of Risks”, by Cohen & Lee, HP Journal, Vol. 36, 1979.



Current Field Investigation

- Interior surveys to detect alpha, beta, and gamma radiation
 - Direct
 - Scanning
 - Wipe
 - Material Samples



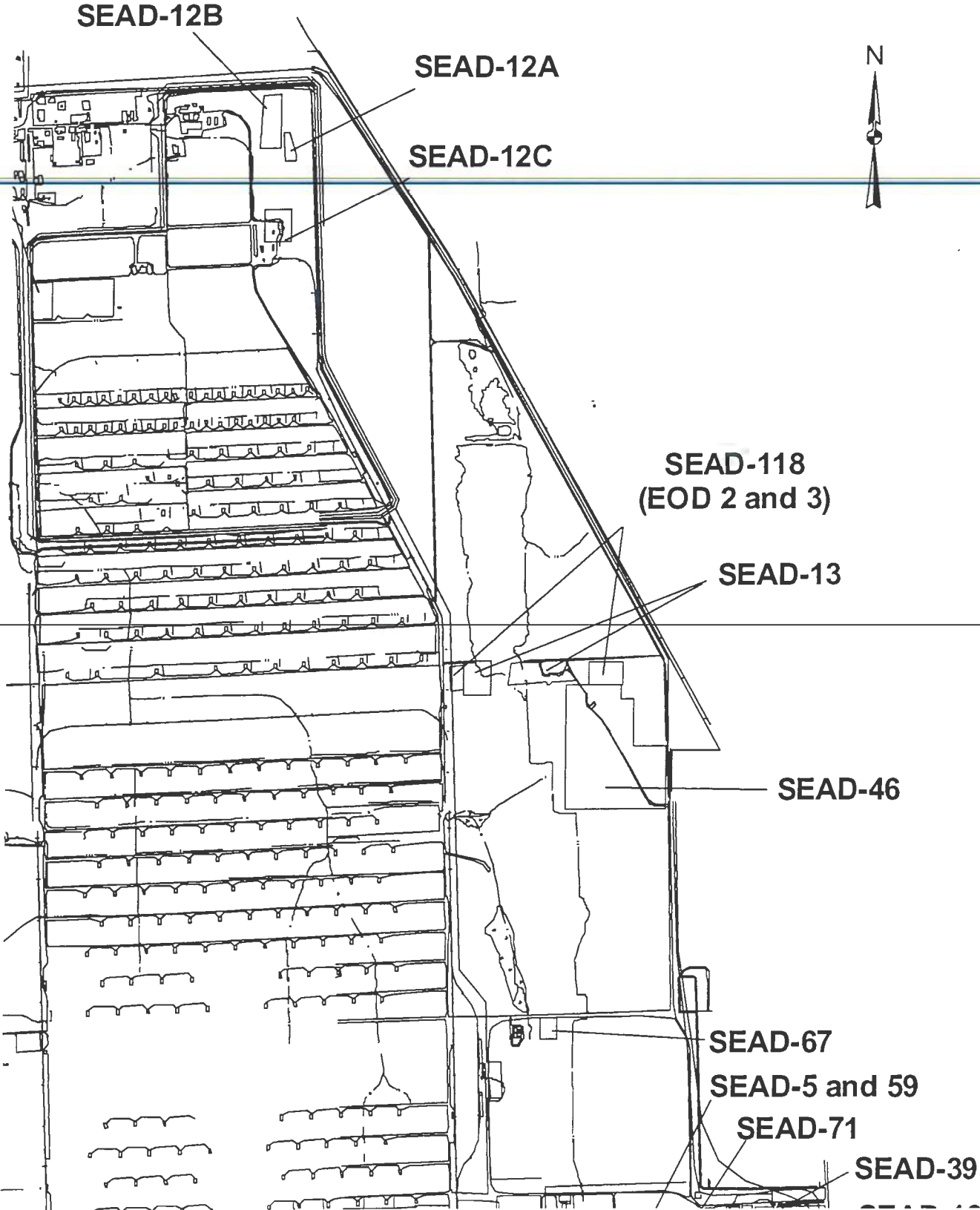
Future Actions

- Radiological Survey to be completed at the end of August, 2003
- Analysis of data using MARSSIM Guidance
- Final Status Survey Report



SENECA - NORTHEAST SECTION

1000 0 1000 2000 Feet



SENECA - NORTHWEST SECTION

1000 0 1000 2000 Feet



SEAD-63

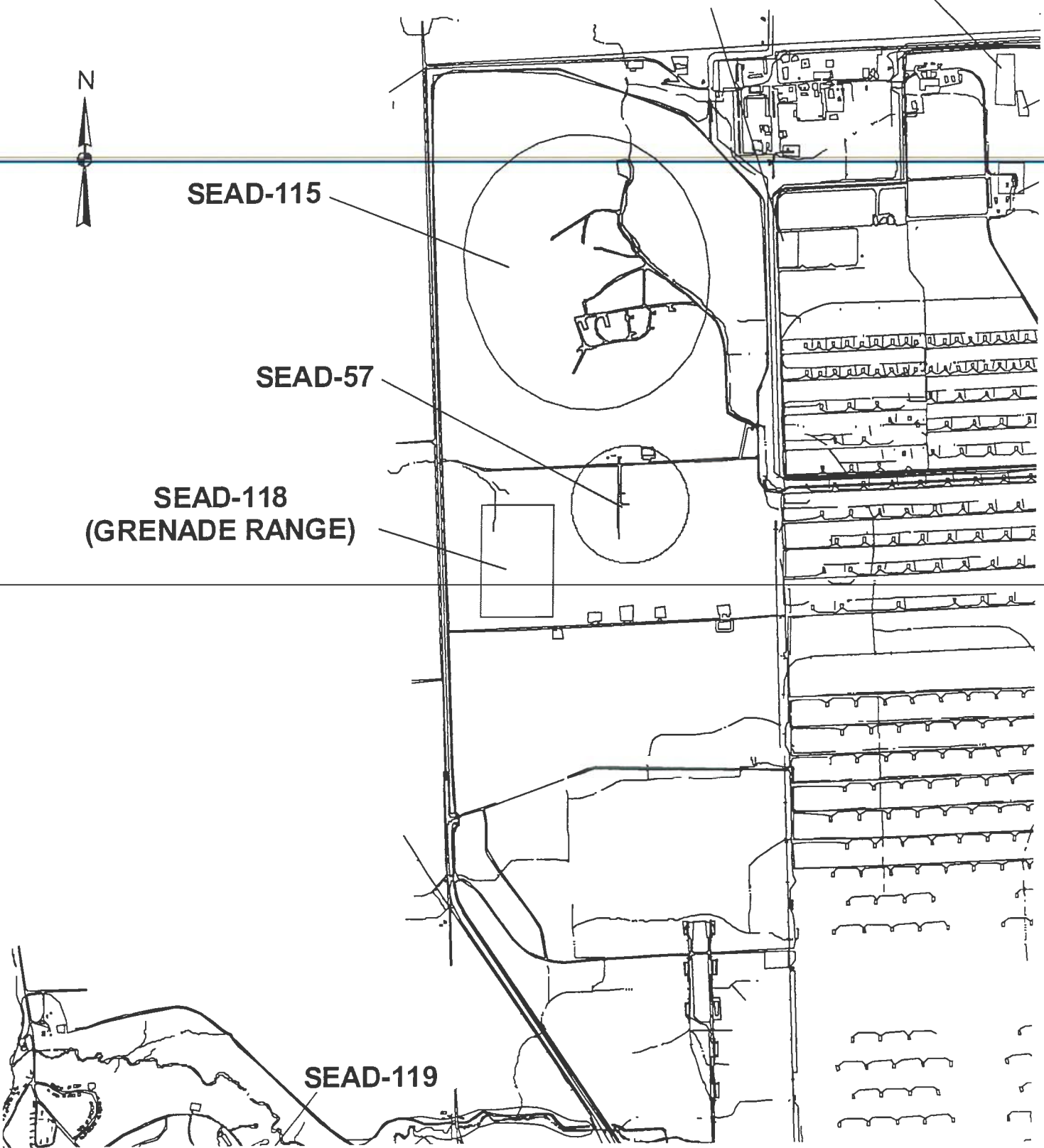
SEAD-12B

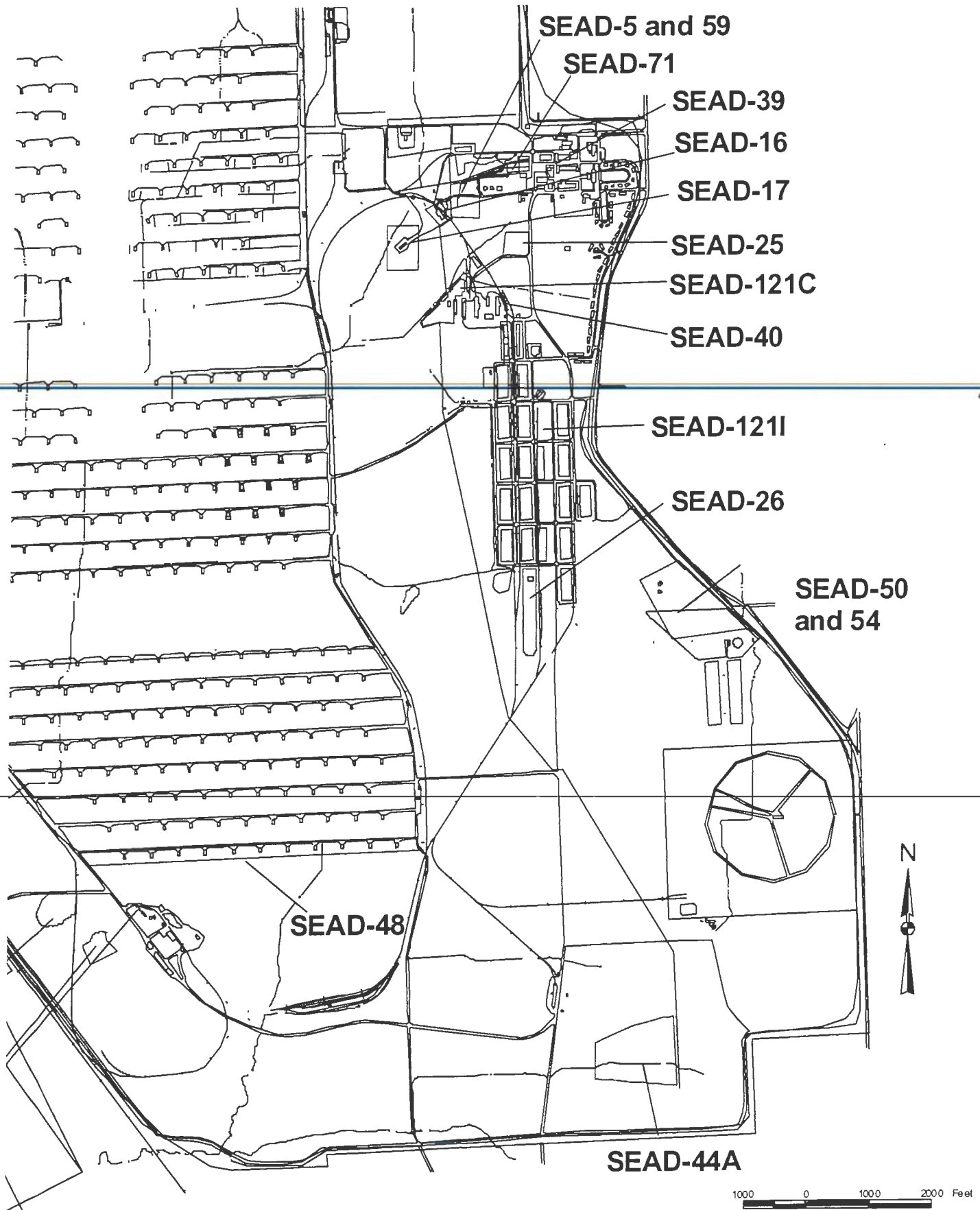
SEAD-115

SEAD-57

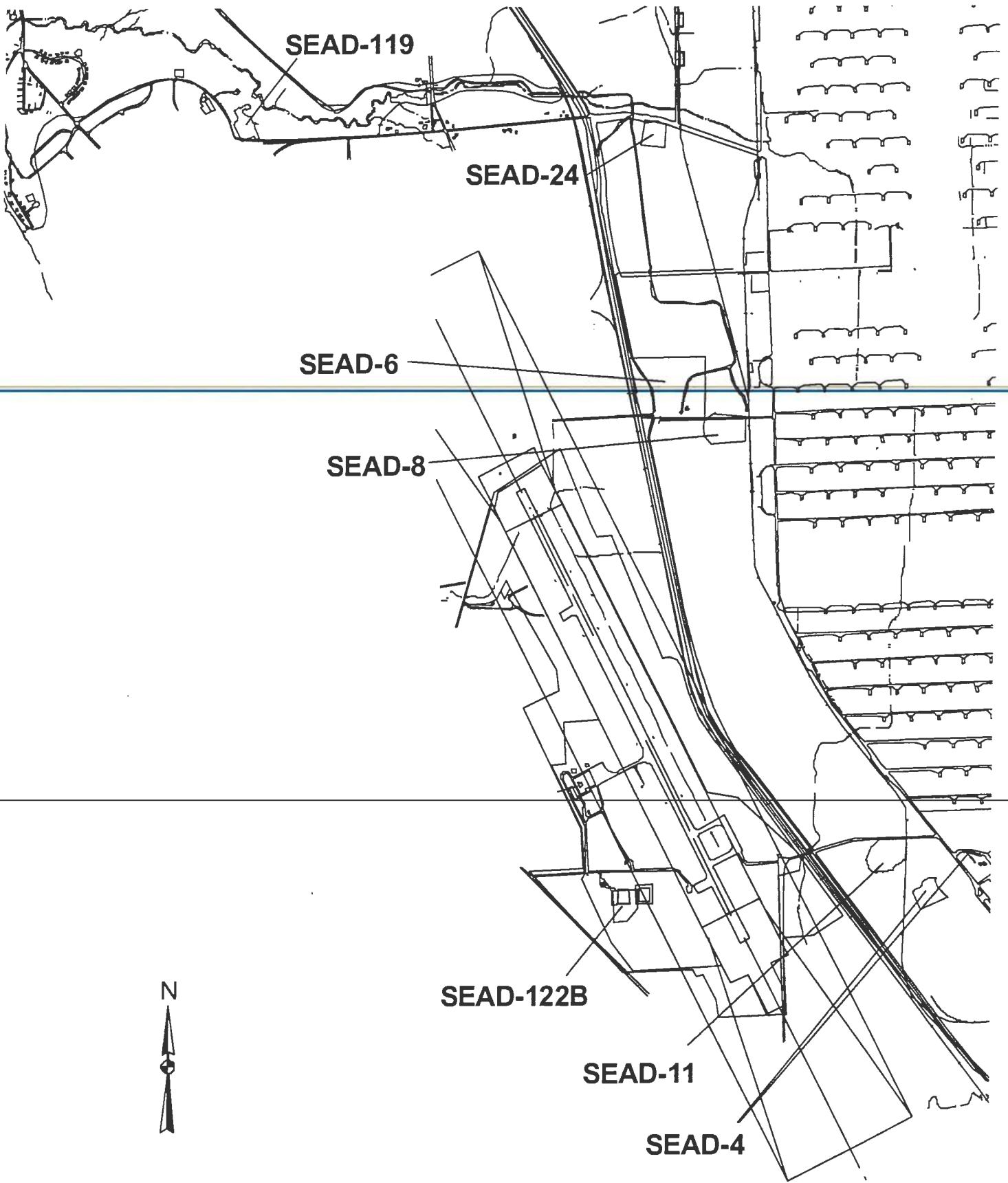
SEAD-118
(GRENADE RANGE)

SEAD-119





SENECA - SOUTHEAST SECTION



1000 0 1000 2000 Feet

SENECA - SOUTHWEST SECTION

Restoration Advisory Board Meeting Agenda

June 17, 2003

Seneca County Office Building,
Waterloo, NY

7:00

Welcome

Mr. Stephen Absolom,
Army Co-Chair

7:05

Acceptance of Minutes from Previous Meeting

Mr. Stephen M. Absolom
Ms. Karen Tackett
Army Co-Chair/Community Co-Chair

7:10

Agenda

1. Investigation of SEAD-48 Pitch Blend Ore Storage
Igloos – Jackie Travers, Parsons
2. Update of Property Transfer – Steve Absolom

Break

8:15

Open Discussion

All

8:30

Adjournment