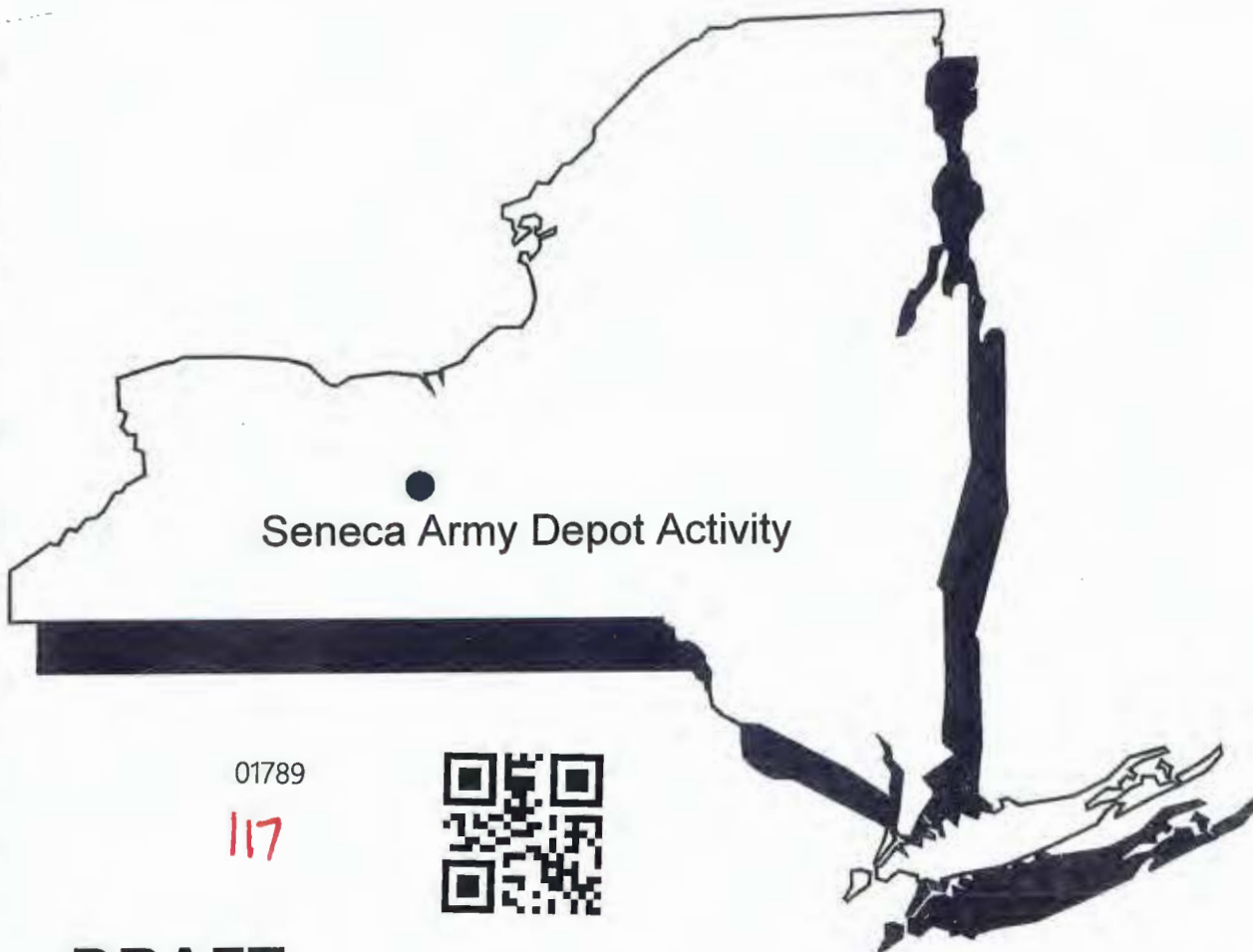




US Army, Engineering & Support Center
Huntsville, AL



Seneca Army Depot Activity
Romulus, NY



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RECORD OF DECISION - Appendices

THE FILL AREA WEST OF BUILDING 135 (SEAD-59)
AND THE ALLEGED PAINT DISPOSAL AREA (SEAD-71)
SENECA ARMY DEPOT ACTIVITY

EPA Site ID# NY0213820830
NY Site ID# 8-50-006
CONTRACT NO. DACA87-02-D-0005
DELIVERY ORDER NO. 0013

PARSONS
February 2008

APPENDIX A

ADMINISTRATIVE RECORD

ADMINISTRATIVE RECORD

Canadian Council of Ministers of the Environment. 2003. Canadian Environmental Quality Guideline. December 2003.

DOD, 1993. Base Realignment and Closure Cleanup Plan Guidebook, Fall 1993.

Efroymsen, R.A. et al. 1997a. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Process: 1997 Revision. November.

Efroymsen, R.A., et al. 1997b. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: November 1997 Revision.

Nagy, et al. 1999. Energetics of Free-ranging Mammals, Reptiles, and Birds. *Ann. Rev. Nutr.* 19: 247-277.

Netherlands Ministry of Housing, Spatial Planning and Environment. 2000 Circular on Target Values and Intervention Values for Soil Remediation.

NYSDEC, 1993. Technical and Administrative Guidance Memorandum #4003, Cleanup Guideline for Soil Contaminated with Radioactive Material, September 1993.

NYSDEC, 1994a. Technical and Administrative Guidance Memorandum #4046, Determination of Soil Cleanup Objectives and Cleanup Levels, January 24, 1994.

NYSDEC, 1994b. Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites, Division of Fish and Wildlife, October 1994.

NYSDEC, 2004 - Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 as amended January 1999, April 2000, and June 2004.

Parsons, 1994. SWMU Classification Report, Seneca Army Depot Activity, Final, Engineering-Science, Inc., June 1994.

Parsons 1999. Final Investigation of Environmental Baseline Survey Non-Evaluated Sites [SEAD-119A, SEAD-122 (A, B, C, D, E), SEAD-123 (A, B, C, D, E, F), SEAD-46, SEAD-68, SEAD-120 (A, B, C, D, E, F, G, H, I, J), and SEAD-121 (A, B, C, D, E, F, G, H, I)], Parsons Engineering Science, Inc., May 1999.

Parsons, 2003. Record of Decision, Twenty No Action SWMUs and Eight No Further Action SWMU, Final, Parsons, September 2003.

Parsons, 2004. Record of Decision, Sites Requiring Institutional Controls in Planned Industrial / Office Development or Warehousing Area, Final, Parsons, September 2004.

Parsons, 2006. Remedial Investigation Report for Two EBS Sites in the Planned Industrial Development Area (SEAD-121C and SEAD-121I), Final, Parsons, April 2006.

Sample et al. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision.

Title 40 Code of Federal Regulations, Part 300, National Oil and Hazardous Substances Pollution Contingency Plan.

Title 40, Code of Federal Regulations, Part 261, Identification and Listing of Hazardous Waste.

Title 42 US Code Chapter 103, Comprehensive Environmental Response, Compensation, and Liability, Section 9620.

Title 42 US Code Chapter 103, The Community Environmental Response Facilitation Act, Section 9620(h)(4),(5).

USEPA, 1989. Risk Assessment Guidance for Superfund (RAGS), Volume 1, Human Health Evaluation Manual (Part A), EPA/540/1-89/002, December 1989.

USEPA, NYSDEC, and Army, 1993. Federal Facilities Agreement under CERCLA Section 120; Docket Number: II-CERCLA-FFA-00202, USEPA, NYSDEC, and the Army, January 1993.

USEPA, 1994. Guidance Manual for the Integrated Exposure Uptake Biokinetic Model for Lead in Children [NTIS #PB93-963510, EPA 9285.7-15-1], February 1994.

USEPA, 1997. Ecological Risk Assessment Guidance for Superfund (ERAGS): Process for Designing and Conducting Ecological Risk Assessments. EPA 540-R-97-006, OSWER Directive # 9285.7-25, June 1997.

USEPA, 1998a. Guidelines for Ecological Risk Assessment, Risk Assessment Forum, Washington, DC, EPA/630/R095/002F, April 1998.

USEPA, 1999a. A Guide to Preparing Superfund Proposed Plans, Records of Decision, and Other Remedy Selection Decision Documents, USEPA 540-R-98-031, OSWER 9200.1-23P, PB98-963241, July 1999.

USEPA, 1999b. Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities. Peer Review Draft. November 1999.

USEPA, 2000a. The Ecological Soil Screening Level (Eco-SSL). Interim.

USEPA, 2000b. Bioaccumulation Testing and Interpretation for the Purpose of Sediment Quality Assessment, Status and Needs. Office of Water and Office of Solid Waste. February 2000.

USEPA, 2001. The role of Screening-Level Risk Assessments and Refining Contaminants of Concern in Baseline Ecological Risk Assessments, OSWER Publication 9345.0-14, EPA 540/F-01/014, June 2001.

USEPA, 2002. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Integrated Manual, NTIS-PB2002105715, USEPA SW-846, 2002.

USEPA, 2003a. National Primary Drinking Water Standards, USEPA 816-F-03-016, USEPA, Office of Ground Water and Drinking Water, June 2003.

USEPA, 2003b. Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil, USEPA, Technical Work Group for Lead, EPA-540-R-03-001, January 2003.

USEPA. 2003c. The Ecological Soil Screening Level (Eco-SSL). Interim. Revised in 2003.

USEPA, 2004. Preliminary Remediation Goals (PRGs), USEPA, Region IX, October 2004.

USEPA. 2005. The Ecological Soil Screening Level (Eco-SSL). Interim. Revised in March 2005.

USEPA Region III. 1995. Region III BTAG Screening Levels.

USEPA Region V, 2003. Ecological Screening Levels.

Woodward-Clyde, 1997. U.S. Army Base Realignment and Closure 95 Program, Environmental Baseline Survey Report, Woodward-Clyde Federal Services, March 1997.

APPENDIX B

LETTER OF CONCURRENCE

APPENDIX C

PUBLIC COMMENT AND RESPONSIVENESS SUMMARY

PUBLIC COMMENTS AND RESPONSIVENESS SUMMARY**The FILL AREA WEST OF BUILDING 135 (SEAD-59) AND THE ALLEGED PAINT
DISPOSAL AREA (SEAD-59)****SENECA ARMY DEPOT SUPERFUND SITE****INTRODUCTION**

A responsiveness summary is required by Superfund policy. It provides a summary of citizen's comments and concerns received during the public comment period, and the Army's responses to those comments and concerns.

OVERVIEW

Since the inception of this project, the Army has implemented an active policy of involvement with the local community. This involvement has occurred through the public forum provided by regular meetings of the Base Clean-up Team (BCT). During these meetings, representatives of the community, the Army and the regulators are brought together in a forum where ideas and concerns are voiced and addressed. The BCT has been routinely briefed by the Army in regards to the progress and the results obtained during both the investigation and remedial alternative selection process. In addition to regular project specific briefings, the Army has provided experts in various fields related to the CERCLA program that have provided lectures intended to educate the general public in the various technical aspects of the CERCLA program at SEDA. Lectures have been conducted on risk assessments, both human health and ecological, remedial alternatives, such as bioventing and natural attenuation, institutional controls, and the feasibility study process.

BACKGROUND ON COMMUNITY INVOLVEMENT

Initially, during the years from 1991 through 1995 the Army formed and solicited community involvement through quarterly meetings with the Technical Review Committee (TRC). The TRC was comprised of community leaders with an active interest in the on-goings of the CERCLA process at the depot. These meetings were open to the public and were announced in the local newspaper and the radio. Following inclusion of the depot on the final BRAC closure list in late 1995, the Army transitioned from the TRC and formed the Base Clean-up Team (BCT). The BCT was comprised of several of the TRC members with the addition of additional Army and regulatory representatives. The BCT increased the frequency of the meetings to a monthly basis. Since the formation of the TRC and the BCT, the Army has met with the local community members on a regular basis and has discussed the finding of both the RI and the FS. In addition, the proposed plan has been presented to the BCT.

SUMMARY OF COMMUNITY RELATIONS ACTIVITIES

The RI reports, the Completion Report for the Time-Critical Removal Action and the Proposed Plan for SEAD-59 and SEAD-71 were released to the public for comment. These documents were made available to the public in the administrative record file at the information repositories at Building 123 within the Seneca Army Depot Activity, 5786 State Route 96, Romulus, New York, 14541-0009. The public comment period on these documents was held from December 10, 2007 to January 8, 2008. The notice of availability for the above-referenced documents was published in the Finger Lake Times during this time period.

On December 19, 2007, the Army, the EPA and the NYSDEC conducted a public meeting at the Seneca County Board of Supervisors Room, located at the Seneca County Office Building in Waterloo, NY to inform local officials and interested citizens about the Superfund process, to review current and planned remedial activities at the AOCs, and to respond to any questions from area residents and other attendees. The meeting included poster board presentations and provided an opportunity for the public to speak to Army, EPA and NYSDEC representatives involved in the process. The public was given the opportunity to provide formal comments that would be documented and become part of the official record for the selected remedy.

SUMMARY OF COMMENTS AND RESPONSES

No formal comments were received from the community during the public meeting. There is no official transcript since no comments were provided. There was one letter received from the public during the public comment period, which is provided on the following page. The Army's response to this letter is also provided.

Mr. Stephen M. Absolom
BRAC Environmental Coordinator
Seneca Army Depot Activity
Building 123, P.O. Box 9
5786 State Route 96
Romulus, New York 14541-0009

January 4, 2008

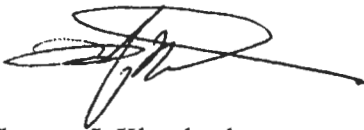
Dear Mr. Absolom,

This letter serves as comments on the Proposed Plan – Draft Final for the Fill Area West of Building 135 (SEAD-59) and the Alleged Paint Disposal Area (SEAD-71).

The proposed alternatives demonstrate the outstanding leadership that the U.S. Army Corps of Engineers and Parson's Engineering have displayed in regards to their long-standing working relationship in regards to environmental remediation at Seneca Army Depot Activity. Both the Corps of Engineers and Parson's Engineering have done a commendable job in making the Depot available for future uses.

I thank you for the ability to comment on the Proposed Plan.

Regards,

A handwritten signature in black ink, appearing to read 'TKlotzbach', with a long horizontal stroke extending to the right.

Thomas J. Klotzbach
1204 Waterport Road
Waterport, New York 14571

Response:

The U.S. Army Corps of Engineers, Seneca Army Depot, acknowledges receipt of Mr. Klotzbach's letter dated January 4, 2008 and express our thanks for his comments in appreciation of the efforts undertaken at SEAD-59 and SEAD-71.

APPENDIX D

ANALYTICAL RESULTS FOR SAMPLES

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-F01	CL-59-01-F02	CL-59-01-F03	CL-59-01-F04	CL-59-01-F05	CL-59-01-F06	CL-59-01-F07	CL-59-01-F08	CL-59-01-F09
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-F01	CL-59-01-F02	CL-59-01-F03	CL-59-01-F04	CL-59-01-F05	CL-59-01-F06	CL-59-01-F07	CL-59-01-F08	CL-59-01-F09
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics										
1,1,1-Trichloroethane	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 UJ	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 UJ	5 U	5 U	5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5 UJ	5 UJ	6 R	6 U	6 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
1,2,3-Trichloropropane	UG/KG				6 U					
1,2,4-Trichlorobenzene	UG/KG	5 UJ	5 UJ	6 R	6 U	6 U	5 UJ	5 U	5 U	5 U
1,2-Dibromo-3-chloropropane	UG/KG	5 UJ	5 UJ	6 R	6 U	6 U	5 UJ	5 U	5 U	5 U
1,2-Dibromoethane	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	UG/KG	5 UJ	5 UJ	6 R	6 U	6 U	5 UJ	5 U	5 U	5 U
1,2-Dichloroethane	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	UG/KG									
1,2-Dichloropropane	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	UG/KG	5 UJ	5 UJ	6 R	6 U	6 U	5 UJ	5 U	5 U	5 U
1,3-Dichloropropane	UG/KG				6 U					
1,4-Dichlorobenzene	UG/KG	5 UJ	5 UJ	6 R	6 U	6 U	5 UJ	5 U	5 U	5 U
Acetone	UG/KG	50 J	5 U	6 R	9.6 J	41 NJ	31 NJ	47 NJ	98 NJ	18 NJ
Benzene	UG/KG	1 J	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
Bromodichloromethane	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
Bromoform	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
Carbon disulfide	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
Chlorobenzene	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
Chlorodibromomethane	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
Chloroethane	UG/KG	5 UJ	5 U	6 R	12 U	6 U	5 U	5 U	5 U	5 U
Chloroform	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
Cis-1,2-Dichloroethane	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
Cis-1,3-Dichloropropene	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
Cyclohexane	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-F01	CL-59-01-F02	CL-59-01-F03	CL-59-01-F04	CL-59-01-F05	CL-59-01-F06	CL-59-01-F07	CL-59-01-F08	CL-59-01-F09
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-F01	CL-59-01-F02	CL-59-01-F03	CL-59-01-F04	CL-59-01-F05	CL-59-01-F06	CL-59-01-F07	CL-59-01-F08	CL-59-01-F09
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dichlorodifluoromethane	UG/KG	5 UJ	5 UJ	6 R		6 U	5 U	5 U	5 U	5 U
Ethyl benzene	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
Isopropylbenzene	UG/KG	5 UJ	5 U	6 R		6 U	5 U	5 U	5 U	5 U
Meta/Para Xylene	UG/KG				6 U					
Methyl Acetate	UG/KG	5 UJ	5 U	6 R		6 U	5 U	5 U	5 U	5 U
Methyl Tertbutyl Ether	UG/KG	5 UJ	5 U	6 R		6 U	5 U	5 U	5 UJ	5 UJ
Methyl bromide	UG/KG	5 UJ	5 U	6 R		6 U	5 U	5 U	5 UJ	5 UJ
Methyl butyl ketone	UG/KG	5 UJ	5 U	6 R		6 U	5 U	5 U	5 UJ	5 UJ
Methyl chloride	UG/KG	5 UJ	5 U	6 R		6 U	5 U	5 U	5 U	5 U
Methyl cyclohexane	UG/KG	4 J	5 U	6 R		6 U	5 U	5 U	5 U	5 U
Methyl ethyl ketone	UG/KG	5 UJ	5 U	6 R	12 U	6 U	5 U	5 U	17 J	5 U
Methyl isobutyl ketone	UG/KG	5 UJ	5 U	6 R	12 U	6 U	5 U	5 U	5 UJ	5 UJ
Methylene chloride	UG/KG	8 UJ	5 U	6 UJ	6 U	6 U	5 U	5 U	5 UJ	5 UJ
Ortho Xylene	UG/KG				6 U					
Styrene	UG/KG	5 UJ	5 U	6 R		6 U	5 U	5 U	5 U	5 U
Tetrachloroethene	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
Toluene	UG/KG	2 J	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
Total BTEX	MG/KG									
Total Xylenes	UG/KG	5 UJ	5 UJ	6 R		6 U	5 UJ	5 U	5 U	5 U
Trans-1,2-Dichloroethene	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	UG/KG	5 UJ	5 U	6 R		6 U	5 U	5 U	5 U	5 U
Trichloroethene	UG/KG	5 UJ	5 U	6 R	6 U	6 U	5 U	5 U	5 U	5 U
Trichlorofluoromethane	UG/KG	5 UJ	5 UJ	6 R		6 U	5 U	5 U	5 U	5 U
Vinyl chloride	UG/KG	5 UJ	5 U	6 R	12 U	6 U	5 U	5 U	5 U	5 U
Semivolatile Organics										
1,1'-Biphenyl	UG/KG	360 U	380 U	410 U		390 U	370 U	410 U	370 U	380 U
1,2,4-Trichlorobenzene	UG/KG									
1,2-Dichlorobenzene	UG/KG									
1,3-Dichlorobenzene	UG/KG									
1,4-Dichlorobenzene	UG/KG									
2,2'-oxybis(1-Chloropropane)	UG/KG	360 U	380 U	410 UJ		390 U	370 U	410 U	370 UJ	380 UJ
2,4,5-Trichlorophenol	UG/KG	910 U	950 U	1000 U	390 U	980 U	940 U	1000 U	920 U	960 U
2,4,6-Trichlorophenol	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
2,4-Dichlorophenol	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
2,4-Dimethylphenol	UG/KG	360 U	380 U	410 U		390 U	370 U	410 U	370 U	380 U
2,4-Dinitrophenol	UG/KG	910 U	950 U	1000 U	2000 U	980 U	940 U	1000 U	920 U	960 U
2,4-Dinitrotoluene	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
2,6-Dinitrotoluene	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
2-Chloronaphthalene	UG/KG	360 U	380 U	410 U		390 U	370 U	410 U	370 U	380 U
2-Chlorophenol	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
2-Methylnaphthalene	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
2-Methylphenol	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
2-Nitroaniline	UG/KG	910 U	950 U	1000 U	2000 U	980 U	940 U	1000 U	920 U	960 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-F01	CL-59-01-F02	CL-59-01-F03	CL-59-01-F04	CL-59-01-F05	CL-59-01-F06	CL-59-01-F07	CL-59-01-F08	CL-59-01-F09
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-F01	CL-59-01-F02	CL-59-01-F03	CL-59-01-F04	CL-59-01-F05	CL-59-01-F06	CL-59-01-F07	CL-59-01-F08	CL-59-01-F09
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
2-Nitrophenol	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
3,3'-Dichlorobenzidine	UG/KG	360 U	380 U	410 U	380 U	390 U	370 U	410 U	370 U	380 U
3-Nitroaniline	UG/KG	910 U	950 U	1000 U	2000 U	980 U	940 U	1000 U	920 U	960 U
4,6-Dinitro-2-methylphenol	UG/KG	910 U	950 U	1000 U		980 U	940 U	1000 U	920 U	960 U
4-Bromophenyl phenyl ether	UG/KG	360 U	380 U	410 U		390 U	370 U	410 U	370 U	380 U
4-Chloro-3-methylphenol	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
4-Chloroaniline	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
4-Chlorophenyl phenyl ether	UG/KG	360 U	380 U	410 U		390 U	370 U	410 U	370 U	380 U
4-Methylphenol	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
4-Nitroaniline	UG/KG	910 U	950 U	1000 U		980 U	940 U	1000 U	920 U	960 U
4-Nitrophenol	UG/KG	910 U	950 U	1000 U	2000 U	980 U	940 U	1000 U	920 U	960 U
Acenaphthene	UG/KG	360 U	380 U	410 U		390 U	370 U	410 U	370 U	380 U
Acenaphthylene	UG/KG	360 U	380 U	410 U	76 J	390 U	370 U	410 U	370 U	380 U
Acetophenone	UG/KG	360 U	380 U	410 U		390 U	370 U	410 U	370 U	380 U
Aniline	UG/KG				390 U					
Anthracene	UG/KG	360 U	380 U	410 U	82 J	390 U	370 U	410 U	370 U	380 U
Atrazine	UG/KG	360 U	380 U	410 U		390 U	370 U	410 U	370 U	380 U
Benzaldehyde	UG/KG	360 U	380 U	410 U		390 U	370 U	410 U	370 U	380 U
Benz(a)anthracene	UG/KG	360 U	380 U	410 U	240 J	390 U	370 U	410 U	370 U	380 U
Benz(a)pyrene	UG/KG	360 U	380 U	410 U	270 J	390 U	370 U	410 U	370 U	380 U
Benz(b)fluoranthene	UG/KG	360 U	380 U	410 U	200 J	390 U	370 U	410 U	370 U	380 U
Benz(ghi)perylene	UG/KG	360 U	380 U	410 U	190 J	390 U	370 U	410 U	370 U	380 U
Benz(k)fluoranthene	UG/KG	360 U	380 U	410 U	200 J	390 U	370 U	410 U	370 U	380 U
Benzoic Acid	UG/KG				2000 U					
Bis(2-Chloromethoxy)methane	UG/KG	360 U	380 U	410 U		390 U	370 U	410 U	370 U	380 U
Bis(2-Chloroethyl)ether	UG/KG	360 U	380 U	410 U		390 U	370 U	410 U	370 U	380 U
Bis(2-Chloroisopropyl)ether	UG/KG									
Bis(2-Ethylhexyl)phthalate	UG/KG	360 U	380 U	410 U	390 U	41 J	40 J	410 U	370 U	39 NJ
Butylbenzylphthalate	UG/KG	360 U	380 U	410 U	390 U			410 U	370 U	380 U
Caprolactam	UG/KG	360 U	380 U	410 U		390 U	370 U	410 U	370 U	380 U
Carbazole	UG/KG	360 U	380 U	410 U		390 U	370 U	410 U	370 U	380 U
Chrysene	UG/KG	360 U	380 U	410 U	260 J	390 U	370 U	410 U	370 U	380 U
Di-n-butylphthalate	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
Di-n-octylphthalate	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
Dibenz(a,h)anthracene	UG/KG	360 U	380 U	410 U	59 J	390 U	370 U	410 U	370 U	39 J
Dibenzofuran	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
Diethyl phthalate	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
Dimethylphthalate	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
Fluoranthene	UG/KG	360 U	380 U	410 U	480 J	390 U	370 U	410 U	370 U	380 U
Fluorene	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
Hexachlorobenzene	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
Hexachlorobutadiene	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
Hexachlorocyclopentadiene	UG/KG	360 U	380 U	410 U		390 U	370 U	410 U	370 U	380 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-F01	CL-59-01-F02	CL-59-01-F03	CL-59-01-F04	CL-59-01-F05	CL-59-01-F06	CL-59-01-F07	CL-59-01-F08	CL-59-01-F09
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-F01	CL-59-01-F02	CL-59-01-F03	CL-59-01-F04	CL-59-01-F05	CL-59-01-F06	CL-59-01-F07	CL-59-01-F08	CL-59-01-F09
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Hexachloroethane	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
Indeno(1,2,3-cd)pyrene	UG/KG	360 U	380 U	410 U	180 J	390 U	370 U	57 J	370 U	140 J
Isophorone	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
N-Nitrosodiphenylamine	UG/KG	360 U	380 U	410 U		390 U	370 U	410 U	370 U	380 U
N-Nitrosodipropylamine	UG/KG	360 U	380 U	410 U		390 U	370 U	410 U	370 U	380 U
Naphthalene	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	53 J	370 U	380 U
Nitrobenzene	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
Pentachlorophenol	UG/KG	910 U	950 U	1000 U	2000 U	980 U	940 U	1000 U	920 U	960 U
Phenanthrene	UG/KG	360 U	380 U	410 U	210 J	390 U	370 U	110 J	370 U	360 J
Phenol	UG/KG	360 U	380 U	410 U	390 U	390 U	370 U	410 U	370 U	380 U
Pyrene	UG/KG	360 U	380 U	410 U	440 J	390 U	370 U	140 J	370 U	960
Pyridine	UG/KG			410 U	2000 U				370 U	380 U
Total Unknown PAHs as SV	MG/KG									
Pesticides/PCBs										
4,4'-DDD	UG/KG	3.6 U	3.8 U	4.1 U	20 U	3.9 U	3.8 U	4.1 U	3.6 U	3.7 U
4,4'-DDE	UG/KG	3.6 U	3.8 U	4.1 U	20 U	3.9 U	3.8 U	17 NJ	3.6 U	10
4,4'-DDT	UG/KG	3.6 U	3.8 U	4.1 U	20 U	3.9 U	3.8 U	4.1 U	3.6 U	3.7 U
Aldrin	UG/KG	1.9 U	1.9 U	2.1 U	10 U	2 U	2 U	2.1 U	1.9 U	1.9 U
Alpha-BHC	UG/KG	1.9 U	1.9 U	2.1 U	10 U	2 U	2 U	2.1 U	1.9 U	1.9 U
Alpha-Chlordane	UG/KG	1.9 U	1.9 U	2.1 U	10 U	2 U	2 U	2.1 U	1.9 U	1.9 U
Beta-BHC	UG/KG	1.9 U	1.9 U	2.1 U	10 U	2 U	2 U	2.1 U	1.9 U	1.9 U
Delta-BHC	UG/KG	1.9 U	1.9 U	2.1 U	10 U	2 U	2 U	2.1 U	1.9 U	1.9 U
Dieldrin	UG/KG	3.6 U	3.8 U	4.1 U	20 U	3.9 U	3.8 U	4.1 U	3.6 U	3.7 U
Endosulfan I	UG/KG	1.9 U	1.9 U	2.1 U	10 U	2 U	2 U	2.1 U	1.9 U	1.9 U
Endosulfan II	UG/KG	3.6 U	3.8 U	4.1 U	20 U	3.9 U	3.8 U	4.1 U	3.6 U	3.7 U
Endosulfan sulfate	UG/KG	3.6 U	3.8 U	4.1 U	20 U	3.9 U	3.8 U	4.1 U	3.6 U	3.7 U
Endrin	UG/KG	3.6 U	3.8 U	4.1 U	20 U	3.9 U	3.8 U	4.1 U	3.6 U	3.7 U
Endrin aldehyde	UG/KG	3.6 U	3.8 U	4.1 U	20 U	3.9 U	3.8 U	4.1 U	3.6 U	3.7 U
Endrin ketone	UG/KG	3.6 U	3.8 U	4.1 U	20 U	3.9 U	3.8 U	4.1 U	3.6 U	3.7 U
Gamma-BHC/Lindane	UG/KG	1.9 U	1.9 U	2.1 U	10 U	2 U	2 U	2.1 U	1.9 U	1.9 U
Gamma-Chlordane	UG/KG	1.9 U	1.9 U	2.1 U	10 U	2 U	2 U	2.1 U	1.9 U	1.9 U
Heptachlor	UG/KG	1.9 U	1.9 U	2.1 U	10 U	2 U	2 U	2.1 U	1.9 U	1.9 U
Heptachlor epoxide	UG/KG	1.9 U	1.9 U	2.1 U	10 U	2 U	2 U	2.1 U	1.9 U	1.9 U
Methoxychlor	UG/KG	1.9 U	1.9 U	2.1 U	10 U	2 U	2 U	2.1 U	1.9 U	1.9 U
Toxaphene	UG/KG	190 U	190 U	210 U	200 U	200 U	200 U	210 U	190 U	190 U
Aroclor-1016	UG/KG	36 U	38 U	41 U	39 U	40 U	39 U	42 U	36 U	38 U
Aroclor-1221	UG/KG	36 U	38 U	41 U	39 U	40 U	39 U	42 U	36 U	38 U
Aroclor-1232	UG/KG	36 U	38 U	41 U	39 U	40 U	39 U	42 U	36 U	38 U
Aroclor-1242	UG/KG	36 U	38 U	41 U	39 U	40 U	39 U	42 U	36 U	38 U
Aroclor-1248	UG/KG	36 U	38 U	41 U	39 U	40 U	39 U	42 U	36 U	38 U
Aroclor-1254	UG/KG	36 U	38 U	41 U	39 U	40 U	39 U	42 U	36 U	38 U
Aroclor-1260	UG/KG	36 U	38 U	41 U	39 U	40 U	39 U	42 U	36 U	38 U
Metals										

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-F01	CL-59-01-F02	CL-59-01-F03	CL-59-01-F04	CL-59-01-F05	CL-59-01-F06	CL-59-01-F07	CL-59-01-F08	CL-59-01-F09
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-F01	CL-59-01-F02	CL-59-01-F03	CL-59-01-F04	CL-59-01-F05	CL-59-01-F06	CL-59-01-F07	CL-59-01-F08	CL-59-01-F09
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	J	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	11900 J	11300 J	13100	9840	12200 J	10600 J	10400 J	6080	9320
Antimony	MG/KG	1.1 J	1.7 J	2 J	3.5 UJ	1.2 J	1.4 J	1.4 J	0.99 J	1.7 J
Arsenic	MG/KG	6.4	9.5	4.7	3.2 J	6.8 J	7.5 J	5.7 J	2.6	4.5
Barium	MG/KG	113 J	111 J	117 J	99.9	102 J	89.8 J	109 J	52.8 J	71 J
Beryllium	MG/KG	0.62	0.69	0.68	0.19	0.61	0.56	0.55	0.31 J	0.48
Cadmium	MG/KG	0.24 J	0.31	0.65	0.29 U	0.42	0.3 J	0.27 J	0.44	0.67
Calcium	MG/KG	20200 J	3130 J	3140	7970	2790 J	3080 J	21600 J	87800	57000
Chromium	MG/KG	17.8 J	19 J	19.8 J	15.2	18.4 J	16.2 J	16.9 J	9.6 J	15.3 J
Cobalt	MG/KG	9.5 J	10.2 J	10.7	7.8	9.7 J	9.5 J	7.8 J	5.1	7.8
Copper	MG/KG	25 J	25.3 J	18.5	19.6	17.5 J	22.9 J	20.4 J	19.8	25.1
Cyanide	MG/KG									
Iron	MG/KG	23000	31900	24700	17900 J	24700 J	23300 J	22600 J	14400	21800
Lead	MG/KG	11 J	14.6 J	12.8 J	17.2	13.1 J	14 J	12 J	6.6 J	16.3 J
Magnesium	MG/KG	5860 J	4360 J	4620 J	3990	5000 J	4560 J	9820 J	15400 J	9760 J
Manganese	MG/KG	509 J	361 J	623 J	464	516 J	1050 J	428 J	302 J	536 J
Mercury	MG/KG	0.04	0.04	0.04	0.04	0.03	0.03 J	0.03 J	0.02 J	0.04 J
Nickel	MG/KG	26.8 J	30.8 J	32.8 J	22.7	30.3 J	29.3 J	27.7 J	16.7 J	24.8 J
Potassium	MG/KG	1170	1150	911	1030	1070 J	1100 J	969 J	924	1070
Selenium	MG/KG	0.4 U	0.37 U	0.46 U	0.59 U	0.39 U	0.45 U	0.5 U	0.42 U	0.43 U
Silver	MG/KG	0.98	1	1	0.59 U	1.2	1	1	0.1 U	0.11 U
Sodium	MG/KG	113	53.1	150	316	211 J	135 J	184 J	182	300
Thallium	MG/KG	0.2 U	0.18 U	0.23 U	0.59 U	0.19 U	0.22 U	0.25 U	0.35 J	0.21 U
Vanadium	MG/KG	21.8 J	24.7 J	21.3 J	16.8	21.8 J	20.8 J	18.2 J	10.8 J	16.4 J
Zinc	MG/KG	63.1	63.2	72.4 J	96.3 J	64.2 J	54.8 J	61.8 J	36 J	50.6 J

Note(s)

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected, the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-F10	CL-59-01-F11	CL-59-01-F12	CL-59-01-F13	CL-59-01-F14	CL-59-01-F15	CL-59-01-F16	CL-59-01-F17	CL-59-01-F18
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-F10	CL-59-01-F11	CL-59-01-F12	CL-59-01-F13	CL-59-01-F14	CL-59-01-F15	CL-59-01-F16	CL-59-01-F17	CL-59-01-F18
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics										
1,1,1-Trichloroethane	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
1,1,2,2-Tetrachloroethane	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
1,1,2-Trichloroethane	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
1,1-Dichloroethane	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
1,1-Dichloroethene	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
1,2,3-Trichloropropane	UG/KG									
1,2,4-Trichlorobenzene	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
1,2-Dibromo-3-chloropropane	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
1,2-Dibromoethane	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
1,2-Dichlorobenzene	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
1,2-Dichloroethane	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
1,2-Dichloroethene (total)	UG/KG									
1,2-Dichloropropane	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
1,3-Dichlorobenzene	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
1,3-Dichloropropane	UG/KG									
1,4-Dichlorobenzene	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
Acetone	UG/KG	83 NJ	10 NJ	28 NJ	66 NJ	56 NJ	120 NJ	5 U	5 U	6 U
Benzene	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
Bromodichloromethane	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
Bromoform	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
Carbon disulfide	UG/KG	6 R	6 U	6 U	6 U	1 J	6 U	5 U	5 U	6 U
Carbon tetrachloride	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
Chlorobenzene	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
Chlorodibromomethane	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
Chloroethane	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
Chloroform	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
Cis-1,2-Dichloroethene	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
Cis-1,3-Dichloropropene	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U
Cyclohexane	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-F10	CL-59-01-F11	CL-59-01-F12	CL-59-01-F13	CL-59-01-F14	CL-59-01-F15	CL-59-01-F16	CL-59-01-F17	CL-59-01-F18	
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sample ID	CL-59-01-F10	CL-59-01-F11	CL-59-01-F12	CL-59-01-F13	CL-59-01-F14	CL-59-01-F15	CL-59-01-F16	CL-59-01-F17	CL-59-01-F18	
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	
	Sample Depth to Bottom of Sample ⁽²⁾	0	0	0	0	0	0	0	0	0	
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Dichlorodifluoromethane	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U	
Ethyl benzene	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U	
Isopropylbenzene	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U	
Meta/Para Xylene	UG/KG										
Methyl Acetate	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U	
Methyl Tertbutyl Ether	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U	
Methyl bromide	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U	
Methyl butyl ketone	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U	
Methyl chloride	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U	
Methyl cyclohexane	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U	
Methyl ethyl ketone	UG/KG	6 R	6 U	6 U	11 U	10 U	25 U	5 U	5 U	6 U	
Methyl isobutyl ketone	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U	
Methylene chloride	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	5 U	3 U	
Ortho Xylene	UG/KG										
Styrene	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U	
Tetrachloroethene	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U	
Toluene	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U	
Total BTEX	MG/KG										
Total Xylenes	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U	
Trans-1,2-Dichloroethene	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U	
Trans-1,3-Dichloropropene	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U	
Trichloroethene	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U	
Trichlorofluoromethane	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U	
Vinyl chloride	UG/KG	6 R	6 U	6 U	6 U	5 U	6 U	5 U	5 U	6 U	
Semivolatile Organics											
1,1'-Biphenyl	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U	
1,2,4-Trichlorobenzene	UG/KG										
1,2-Dichlorobenzene	UG/KG										
1,3-Dichlorobenzene	UG/KG										
1,4-Dichlorobenzene	UG/KG										
2,2'-oxybis(1-Chloropropane)	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U	
2,4,5-Trichlorophenol	UG/KG	970 U	990 U	1000 U	980 U	950 U	1000 U	900 U	900 U	960 U	
2,4,6-Trichlorophenol	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U	
2,4-Dichlorophenol	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U	
2,4-Dimethylphenol	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U	
2,4-Dinitrophenol	UG/KG	970 U	990 U	1000 U	980 U	950 U	1000 U	900 U	900 U	960 U	
2,4-Dinitrotoluene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U	
2,6-Dinitrotoluene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U	
2-Chloronaphthalene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U	
2-Chlorophenol	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U	
2-Methylnaphthalene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U	
2-Methylphenol	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U	
2-Nitroaniline	UG/KG	970 U	990 U	1000 U	980 U	950 U	1000 U	900 U	900 U	960 U	

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-F10	CL-59-01-F11	CL-59-01-F12	CL-59-01-F13	CL-59-01-F14	CL-59-01-F15	CL-59-01-F16	CL-59-01-F17	CL-59-01-F18
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-F10	CL-59-01-F11	CL-59-01-F12	CL-59-01-F13	CL-59-01-F14	CL-59-01-F15	CL-59-01-F16	CL-59-01-F17	CL-59-01-F18
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
2-Nitrophenol	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
3,3'-Dichlorobenzidine	UG/KG	390 UJ	390 UJ	410 U	390 UJ	380 UJ	400 U	360 U	360 U	380 U
3-Nitroaniline	UG/KG	970 U	990 U	1000 U	980 U	950 U	1000 U	900 U	900 U	960 U
4,6-Dinitro-2-methylphenol	UG/KG	970 U	990 U	1000 U	980 U	950 U	1000 U	900 U	900 U	960 U
4-Bromophenyl phenyl ether	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
4-Chloro-3-methylphenol	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
4-Chloroaniline	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
4-Chlorophenyl phenyl ether	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
4-Methylphenol	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
4-Nitroaniline	UG/KG	970 U	990 U	1000 U	980 U	950 U	1000 U	900 U	900 U	960 U
4-Nitrophenol	UG/KG	970 U	990 U	1000 U	980 U	950 U	1000 U	900 U	900 U	960 U
Acenaphthene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Acenaphthylene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Acetophenone	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Aniline	UG/KG									
Anthracene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Atrazine	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Benzaldehyde	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Benz(a)anthracene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Benz(a)pyrene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Benz(b)fluoranthene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Benz(ghi)perylene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Benz(k)fluoranthene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Benzoic Acid	UG/KG									
Bis(2-Chloroethoxy)methane	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Bis(2-Chloroethyl)ether	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Bis(2-Chloroisopropyl)ether	UG/KG									
Bis(2-Ethylhexyl)phthalate	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Butylbenzylphthalate	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Caprolactam	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Carbazole	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Chrysene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Di-n-butylphthalate	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Di-n-octylphthalate	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Dibenz(a,h)anthracene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Dibenzofuran	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Diethyl phthalate	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Dimethylphthalate	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Fluoranthene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Fluorene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Hexachlorobenzene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Hexachlorobutadiene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Hexachlorocyclopentadiene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	CL-59-01-F10	CL-59-01-F11	CL-59-01-F12	CL-59-01-F13	CL-59-01-F14	CL-59-01-F15	CL-59-01-F16	CL-59-01-F17	CL-59-01-F18	CL-59-01-F18
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	CL-59-01-F10	CL-59-01-F11	CL-59-01-F12	CL-59-01-F13	CL-59-01-F14	CL-59-01-F15	CL-59-01-F16	CL-59-01-F17	CL-59-01-F17	CL-59-01-F18
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Hexachloroethane	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Indeno(1,2,3-cd)pyrene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Isophorone	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
N-Nitrosodiphenylamine	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
N-Nitrosodipropylamine	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Naphthalene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Nitrobenzene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Penachlorophenol	UG/KG	970 U	990 U	1000 U	980 U	950 U	1000 U	900 U	900 U	960 U
Phenanthrene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Phenol	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Pyrene	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Pyridine	UG/KG	390 U	390 U	410 U	390 U	380 U	400 U	360 U	360 U	380 U
Total Unknown PAHs as SV	MG/KG									
Pesticides/PCBs										
4,4'-DDD	UG/KG	3.8 U	3.9 U	4 U	4 U	3.7 U	4 U	3.6 U	3.6 U	3.9 U
4,4'-DDE	UG/KG	3.8 U	3.9 U	4.7	4 U	3.7 U	4 U	4.4	3.6 U	3.9 U
4,4'-DDT	UG/KG	3.8 U	3.9 U	4 U	4 U	3.7 U	4 U	3.6 U	3.6 U	3.9 U
Aldrin	UG/KG	2 U	2 U	2.1 U	2 U	1.9 U	2.1 U	1.8 U	1.8 U	2 U
Alpha-BHC	UG/KG	2 U	2 U	2.1 U	2 U	1.9 U	2.1 U	1.8 U	1.8 U	2 U
Alpha-Chlordane	UG/KG	2 U	2 U	2.1 U	2 U	1.9 U	2.1 U	1.8 U	1.8 U	2 U
Beta-BHC	UG/KG	2 U	2 U	2.1 U	2 U	1.9 U	2.1 U	1.8 U	1.8 U	2 U
Delta-BHC	UG/KG	2 U	2 U	2.1 U	2 U	1.9 U	2.1 U	1.8 U	1.8 U	2 U
Dieldrin	UG/KG	3.8 U	3.9 U	4 U	4 U	3.7 U	4 U	3.6 U	3.6 U	3.9 U
Endosulfan I	UG/KG	2 U	2 U	2.1 U	2 U	1.9 U	2.1 U	1.8 U	1.8 U	2 U
Endosulfan II	UG/KG	3.8 U	3.9 U	4 U	4 U	3.7 U	4 U	3.6 U	3.6 U	3.9 U
Endosulfan sulfate	UG/KG	3.8 U	3.9 U	4 U	4 U	3.7 U	4 U	3.6 U	3.6 U	3.9 U
Endrin	UG/KG	3.8 U	3.9 U	4 U	4 U	3.7 U	4 U	3.6 U	3.6 U	3.9 U
Endrin aldehyde	UG/KG	3.8 U	3.9 U	4 U	4 U	3.7 U	4 U	3.6 U	3.6 U	3.9 U
Endrin ketone	UG/KG	3.8 U	3.9 U	4 U	4 U	3.7 U	4 U	3.6 U	3.6 U	3.9 U
Gamma-BHC/Lindane	UG/KG	2 U	2 U	2.1 U	2 U	1.9 U	2.1 U	1.8 U	1.8 U	2 U
Gamma-Chlordane	UG/KG	2 U	2 U	2.1 U	2 U	1.9 U	2.1 U	1.8 U	1.8 U	2 U
Heptachlor	UG/KG	2 U	2 U	2.1 U	2 U	1.9 U	2.1 U	1.8 U	1.8 U	2 U
Heptachlor epoxide	UG/KG	2 U	2 U	2.1 U	2 U	1.9 U	2.1 U	1.8 U	1.8 U	2 U
Methoxychlor	UG/KG	20 U	20 U	21 U	20 U	19 U	21 U	18 U	18 U	20 U
Toxaphene	UG/KG	200 U	200 U	210 U	200 U	190 U	210 U	180 U	180 U	200 U
Aroclor-1016	UG/KG	38 U	39 U	41 U	40 U	38 U	41 U	36 U	36 U	39 U
Aroclor-1221	UG/KG	38 U	39 U	41 U	40 U	38 U	41 U	36 U	36 U	39 U
Aroclor-1232	UG/KG	38 U	39 U	41 U	40 U	38 U	41 U	36 U	36 U	39 U
Aroclor-1242	UG/KG	38 U	39 U	41 U	40 U	38 U	41 U	36 U	36 U	39 U
Aroclor-1248	UG/KG	38 U	39 U	41 U	40 U	38 U	41 U	36 U	36 U	39 U
Aroclor-1254	UG/KG	38 U	39 U	41 U	40 U	38 U	41 U	36 U	36 U	39 U
Aroclor-1260	UG/KG	38 U	39 U	41 U	40 U	38 U	41 U	36 U	36 U	39 U
Metals										

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-F10	CL-59-01-F11	CL-59-01-F12	CL-59-01-F13	CL-59-01-F14	CL-59-01-F15	CL-59-01-F16	CL-59-01-F17	CL-59-01-F18
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-F10	CL-59-01-F11	CL-59-01-F12	CL-59-01-F13	CL-59-01-F14	CL-59-01-F15	CL-59-01-F16	CL-59-01-F17	CL-59-01-F18
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	10900 J	12000	18300 J	13800	8590	14700	8130 J	5290 J	13200 J
Antimony	MG/KG	1.8 J	1.5 J	2 J	2.1 J	1.3 J	1.6 J	1.4 J	0.65 J	1.5 J
Arsenic	MG/KG	5.9 J	5.3	5.7 J	7	3.2	5.9	3.6 J	2.8 J	7.8 J
Barium	MG/KG	80.8 J	117 J	145 J	95.5 J	55.4 J	164 J	63.2 J	45.6 J	96.4 J
Beryllium	MG/KG	0.53	0.62	0.87	0.79	0.42	0.81	0.38	0.22 J	0.69
Cadmium	MG/KG	0.68 J	0.64	0.66	0.87	0.54	0.81	0.42	0.25 J	0.78
Calcium	MG/KG	7520 J	2710	3210 J	3610	78000	3020	92900 J	83400 J	4260 J
Chromium	MG/KG	17.8 J	18.4 J	25.7 J	23.4 J	12.9 J	20.5 J	12.4 J	7.4 J	19.7 J
Cobalt	MG/KG	10.7 J	10.7	9 J	12.4	6.5	9.6	6.9 J	3.8 J	12.3 J
Copper	MG/KG	20.8	13	26.5 J	27.1	20.7	24.9	17.1 J	13.4 J	23.5 J
Cyanide	MG/KG									
Iron	MG/KG	22500	23600	25700 J	30800	18700	26800	13100 J	9210 J	25300 J
Lead	MG/KG	12.3 J	11.1 J	13.5 J	19 J	7.9 J	15.3 J	6 J	4.1 J	13.5 J
Magnesium	MG/KG	7060 J	4230 J	5570 J	5400 J	14000 J	3860 J	16100 J	24700 J	4580 J
Manganese	MG/KG	738 J	780 J	282 J	358 J	417 J	809 J	330 J	301 J	806 J
Mercury	MG/KG	0.03 J	0.05	0.04	0.05	0.02 J	0.09	0.02 U	0.02 U	0.03 J
Nickel	MG/KG	32.5 J	29 J	32.4 J	37.3 J	22.3 J	25.8 J	19.6 J	9 J	31.9 J
Potassium	MG/KG	1180	1130	1770 J	1050	1070	1170	1160 J	1320 J	1120 J
Selenium	MG/KG	0.46 J	0.46 U	0.45 U	0.48 U	0.42 U	0.46 U	0.4 U	0.38 U	0.43 U
Silver	MG/KG	0.64	0.81	0.75	0.75	0.1 U	0.76	0.1 U	0.1 U	0.75
Sodium	MG/KG	216	150	1800 J	138	295	1330	171 J	808 J	899
Thallium	MG/KG	0.23 U	0.23 U	0.26 J	0.24 U	0.21 U	0.23 U	0.2 U	0.4 J	0.21 U
Vanadium	MG/KG	18.2 J	19.9 J	28.5 J	23.3 J	14.2 J	24.5 J	13.3 J	10.3 J	23.9 J
Zinc	MG/KG	77.6 J	94.8 J	76.3 J	62.8 J	42 J	71.2 J	35.5 J	19.6 J	65.8 J

Notes:

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected; the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-F19	CL-59-01-F20	CL-59-01-F21	CL-59-01-F22	CL-59-01-F23	CL-59-01-F24	CL-59-01-F25	CL-59-01-F26	CL-59-01-WE1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-F19	CL-59-01-F20	CL-59-01-F21	CL-59-01-F22	CL-59-01-F23	CL-59-01-F24	CL-59-01-F25	CL-59-01-F26	CL-59-01-WE1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics										
1,1,1-Trichloroethane	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
1,1,2,2-Tetrachloroethane	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
1,1,2-Trichloroethane	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
1,1-Dichloroethane	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
1,1-Dichloroethene	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
1,2,3-Trichloropropane	UG/KG									
1,2,4-Trichlorobenzene	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
1,2-Dibromo-3-chloropropane	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
1,2-Dibromoethane	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
1,2-Dichlorobenzene	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
1,2-Dichloroethane	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
1,2-Dichloroethene (total)	UG/KG									
1,2-Dichloropropane	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
1,3-Dichlorobenzene	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
1,3-Dichloropropane	UG/KG									
1,4-Dichlorobenzene	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Acetone	UG/KG	51 NJ	38 NJ	5 NJ	45 NJ	38 NJ	66 NJ	5 U	12 NJ	49 NJ
Benzene	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Bromodichloromethane	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Bromoform	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Carbon disulfide	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Carbon tetrachloride	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Chlorobenzene	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Chlorodibromomethane	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Chloromethane	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Chloroform	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Cis-1,2-Dichloroethene	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Cis-1,3-Dichloropropene	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Cyclohexane	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-F19	CL-59-01-F20	CL-59-01-F21	CL-59-01-F22	CL-59-01-F23	CL-59-01-F24	CL-59-01-F25	CL-59-01-F26	CL-59-01-WE1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-F19	CL-59-01-F20	CL-59-01-F21	CL-59-01-F22	CL-59-01-F23	CL-59-01-F24	CL-59-01-F25	CL-59-01-F26	CL-59-01-WE1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dichlorodifluoromethane	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Ethyl benzene	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Isopropylbenzene	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Meta/Para Xylene	UG/KG									
Methyl Acetate	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Methyl Tertbutyl Ether	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Methyl bromide	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Methyl butyl ketone	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Methyl chloride	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Methyl cyclohexane	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Methyl ethyl ketone	UG/KG	6 U	6 U	6 U	11 U	6 U	12 U	5 U	6 U	4 U
Methyl isobutyl ketone	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Methylene chloride	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Ortho Xylene	UG/KG									
Styrene	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Tetrachloroethene	UG/KG	6 U	6 U	6 U	6 U	5 U	2 U	5 U	6 U	5 U
Toluene	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Total BTEX	MG/KG									
Total Xylenes	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Trans-1,2-Dichloroethene	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Trans-1,3-Dichloropropene	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Trichloroethene	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Trichlorofluoromethane	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Vinyl chloride	UG/KG	6 U	6 U	6 U	6 U	5 U	6 U	5 U	6 U	5 U
Semivolatile Organics										
1,1'-Biphenyl	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
1,2,4-Trichlorobenzene	UG/KG									
1,2-Dichlorobenzene	UG/KG									
1,3-Dichlorobenzene	UG/KG									
1,4-Dichlorobenzene	UG/KG									
2,2'-oxybis(1-Chloropropane)	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
2,4,5-Trichlorophenol	UG/KG	990 U	950 U	970 U	980 U	950 U	990 U	930 U	950 U	1100 U
2,4,6-Trichlorophenol	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
2,4-Dichlorophenol	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
2,4-Dimethylphenol	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
2,4-Dinitrophenol	UG/KG	990 U	950 U	970 U	980 U	950 U	990 U	930 U	950 U	1100 U
2,4-Dinitrotoluene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
2,6-Dinitrotoluene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
2-Chloronaphthalene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
2-Chlorophenol	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
2-Methylnaphthalene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
2-Methylphenol	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
2-Nitraniline	UG/KG	990 U	950 U	970 U	980 U	950 U	990 U	930 U	950 U	1100 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-F19	CL-59-01-F20	CL-59-01-F21	CL-59-01-F22	CL-59-01-F23	CL-59-01-F24	CL-59-01-F25	CL-59-01-F26	CL-59-01-WE1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-F19	CL-59-01-F20	CL-59-01-F21	CL-59-01-F22	CL-59-01-F23	CL-59-01-F24	CL-59-01-F25	CL-59-01-F26	CL-59-01-WE1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
2-Nitrophenol	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
3,3'-Dichlorobenzidine	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
3-Nitroaniline	UG/KG	990 U	950 U	970 U	980 U	950 U	990 U	930 U	950 U	1100 U
4,6-Dinitro-2-methylphenol	UG/KG	990 U	950 U	970 U	980 U	950 U	990 U	930 U	950 U	1100 U
4-Bromophenyl phenyl ether	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
4-Chloro-3-methylphenol	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
4-Chloroaniline	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
4-Chlorophenyl phenyl ether	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
4-Methylphenol	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
4-Nitroaniline	UG/KG	990 U	950 U	970 U	980 U	950 U	990 U	930 U	950 U	1100 U
4-Nitrophenol	UG/KG	990 U	950 U	970 U	980 U	950 U	990 U	930 U	950 U	1100 U
Acenaphthene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Acenaphthylene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Acetophenone	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Aniline	UG/KG									
Anthracene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Atrazine	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Benzaldehyde	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Benzo(a)anthracene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Benzo(a)pyrene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	60 J	380 U	430 U
Benzo(h)fluoranthene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	68 J	380 U	430 U
Benzo(ghi)perylene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Benzo(k)fluoranthene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	25 J	380 U	430 U
Benzoic Acid	UG/KG									
Bis(2-Chloroethoxy)methane	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Bis(2-Chloroethyl)ether	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Bis(2-Chloroisopropyl)ether	UG/KG									
Bis(2-Ethylhexyl)phthalate	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Butylbenzylphthalate	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Caprolactam	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Carbazole	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Chrysene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Di-n-butylphthalate	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Di-n-octylphthalate	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Dibenz(a,h)anthracene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Dibenzofuran	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Diethyl phthalate	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Dimethylphthalate	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Fluoranthene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	54 J	380 U	430 U
Fluorene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Hexachlorobenzene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Hexachlorobutadiene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Hexachlorocyclopentadiene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-F19	CL-59-01-F20	CL-59-01-F21	CL-59-01-F22	CL-59-01-F23	CL-59-01-F24	CL-59-01-F25	CL-59-01-F26	CL-59-01-WE1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-F19	CL-59-01-F20	CL-59-01-F21	CL-59-01-F22	CL-59-01-F23	CL-59-01-F24	CL-59-01-F25	CL-59-01-F26	CL-59-01-WE1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Hexachlorocyclohexane	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Indeno(1,2,3-cd)pyrene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Isophorone	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
N-Nitrosodiphenylamine	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
N-Nitrosodipropylamine	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Naphthalene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Nitrobenzene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Pentachlorophenol	UG/KG	990 U	950 U	970 U	980 U	950 U	990 U	930 U	950 U	1100 U
Phenanthrene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Phenol	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	430 U
Pyrene	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	75 J	380 U	430 U
Pyridine	UG/KG	390 U	380 U	390 U	390 U	380 U	390 U	370 U	380 U	
Total Unknown PAHs as SV	MG/KG									
Pesticides/PCBs										
4,4'-DDD	UG/KG	3.9 U	3.8 U	3.8 U	3.9 U	3.8 U	3.9 U	3.7 U	3.9 U	4.4 U
4,4'-DDE	UG/KG	3.9 U	3.8 U	3.8 U	3.9 U	3.8 U	3.9 U	3.7 U	3.9 U	4.4 U
4,4'-DDT	UG/KG	3.9 U	3.8 U	3.8 U	3.9 U	3.8 U	3.9 U	3.7 U	3.9 U	4.4 U
Aldrin	UG/KG	2 U	1.9 U	2 U	2 U	2 U	2 U	1.9 U	2 U	2.2 U
Alpha-BHC	UG/KG	2 U	1.9 U	2 U	2 U	2 U	2 U	1.9 U	2 U	2.2 U
Alpha-Chlordane	UG/KG	2 U	1.9 U	2 U	2 U	2 U	2 U	1.9 U	2 U	2.2 U
Beta-BHC	UG/KG	2 U	1.9 U	2 U	2 U	2 U	2 U	1.9 U	2 U	2.2 U
Delta-BHC	UG/KG	2 U	1.9 U	2 U	2 U	2 U	2 U	1.9 U	2 U	2.2 U
Dieldrin	UG/KG	3.9 U	3.8 U	3.8 U	3.9 U	3.8 U	3.9 U	3.7 U	3.9 U	4.4 U
Endosulfan I	UG/KG	2 U	1.9 U	2 U	2 U	2 U	2 U	1.9 U	2 U	2.2 U
Endosulfan II	UG/KG	3.9 U	3.8 U	3.8 U	3.9 U	3.8 U	3.9 U	3.7 U	3.9 U	4.4 U
Endosulfan sulfate	UG/KG	3.9 U	3.8 U	3.8 U	3.9 U	3.8 U	3.9 U	3.7 U	3.9 U	4.4 U
Endrin	UG/KG	3.9 U	3.8 U	3.8 U	3.9 U	3.8 U	3.9 U	3.7 U	3.9 U	4.4 U
Endrin aldehyde	UG/KG	3.9 U	3.8 U	3.8 U	3.9 U	3.8 U	3.9 U	3.7 U	3.9 U	4.4 U
Endrin ketone	UG/KG	3.9 U	3.8 U	3.8 U	3.9 U	3.8 U	3.9 U	3.7 U	3.9 U	4.4 U
Gamma-BHC/Lindane	UG/KG	2 U	1.9 U	2 U	2 U	2 U	2 U	1.9 U	2 U	2.2 U
Gamma-Chlordane	UG/KG	2 U	1.9 U	2 U	2 U	2 U	2 U	1.9 U	2 U	2.2 U
Heptachlor	UG/KG	2 U	1.9 U	2 U	2 U	2 U	2 U	1.9 U	2 U	2.2 U
Heptachlor epoxide	UG/KG	2 U	1.9 U	2 U	2 U	2 U	2 U	1.9 U	2 U	2.2 U
Methoxychlor	UG/KG	20 U	19 U	20 U	20 U	20 U	20 U	19 U	20 U	22 U
Toxaphene	UG/KG	200 U	190 U	200 U	200 U	200 U	200 U	190 U	200 U	220 U
Aroclor-1016	UG/KG	39 U	38 U	39 U	40 U	38 U	40 U	37 U	39 U	44 U
Aroclor-1221	UG/KG	39 U	38 U	39 U	40 U	38 U	40 U	37 U	39 U	44 U
Aroclor-1232	UG/KG	39 U	38 U	39 U	40 U	38 U	40 U	37 U	39 U	44 U
Aroclor-1242	UG/KG	39 U	38 U	39 U	40 U	38 U	40 U	37 U	39 U	44 U
Aroclor-1248	UG/KG	39 U	38 U	39 U	40 U	38 U	40 U	37 U	39 U	44 U
Aroclor-1254	UG/KG	39 U	38 U	39 U	40 U	38 U	40 U	37 U	39 U	44 U
Aroclor-1260	UG/KG	39 U	38 U	39 U	40 U	38 U	40 U	37 U	39 U	44 U
Metals										

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-F19	CL-59-01-F20	CL-59-01-F21	CL-59-01-F22	CL-59-01-F23	CL-59-01-F24	CL-59-01-F25	CL-59-01-F26	CL-59-01-F26	CL-59-01-WE1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-F19	CL-59-01-F20	CL-59-01-F21	CL-59-01-F22	CL-59-01-F23	CL-59-01-F24	CL-59-01-F25	CL-59-01-F26	CL-59-01-F26	CL-59-01-WE1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	16600 J	12700 J	13200 J	11900 J	15600 J	12400 J	8320 J	13200 J	14400 J	
Antimony	MG/KG	1.7 J	1.7 J	1.4 J	1.6 J	2.2 J	1.7 J	1.4 J	2.8 J	1.9 J	
Arsenic	MG/KG	7 J	8 J	5.8 J	7.1 J	7.3 J	5.5 J	2.3 J	5.5 J	6 J	
Barium	MG/KG	161 J	145 J	143 J	116 J	84.8 J	82.5 J	92.5 J	119 J	148 J	
Beryllium	MG/KG	0.66	0.63	0.77	0.69	0.88	0.72	0.4	0.67	0.92	
Cadmium	MG/KG	0.76	0.69	0.56	0.54	0.64 J	0.43	0.42	0.49	0.39	
Calcium	MG/KG	1350 J	1840 J	3150 J	2880 J	4890 J	1670 J	85500 J	3760 J	3270 J	
Chromium	MG/KG	23.4 J	20.2 J	20.9 J	18.4 J	23.7 J	17.2 J	12.2 J	19.7 J	20.2 J	
Cobalt	MG/KG	10.8 J	11.1 J	9.8 J	10.9 J	12.7 J	11 J	5.1 J	8.9 J	10.6 J	
Copper	MG/KG	32.3 J	20.6 J	27.4 J	25.6 J	36.3 J	9.8 J	15.7 J	20.5 J	23.8 J	
Cyanide	MG/KG										
Iron	MG/KG	26300 J	24100 J	23500 J	24500 J	29000 J	21800 J	15600 J	23200 J	25900 J	
Lead	MG/KG	14.9 J	14.1 J	13.9 J	14.5 J	15.9 J	21.3 J	7.9 J	12.2 J	17.5 J	
Magnesium	MG/KG	5260 J	4850 J	4780 J	4540 J	6480 J	3080 J	14600 J	4860 J	4560 J	
Manganese	MG/KG	416 J	914 J	708 J	568 J	341 J	271 J	331 J	455 J	417 J	
Mercury	MG/KG	0.05	0.04	0.05	0.06	0.05	0.04	0.03 J	0.03 J	0.08	
Nickel	MG/KG	28.5 J	32.7 J	34.9 J	32.3 J	40.5 J	16.3 J	19.4 J	27.3 J	29.4 J	
Potassium	MG/KG	1560 J	1250 J	1100 J	818 J	959 J	723 J	874 J	1060 J	1080 J	
Selenium	MG/KG	0.42 U	0.45 U	0.43 U	0.41 U	0.44 U	0.46 U	0.4 U	0.55 J	0.5 U	
Silver	MG/KG	0.85	0.82	0.58	0.67	0.61	0.67	0.1 U	0.74	1.2	
Sodium	MG/KG	3010 J	2380 J	166 J	1200 J	365 J	463 J	180 J	87.2 J	202 J	
Thallium	MG/KG	0.21 U	0.22 U	0.21 U	0.2 U	0.22 U	0.23 U	0.2 U	0.23 U	0.25 U	
Vanadium	MG/KG	27.8 J	23.1 J	21.8 J	21.5 J	23.2 J	24.3 J	12.9 J	22.9 J	22.6 J	
Zinc	MG/KG	61 J	67.2 J	80.5 J	65.4 J	78.8 J	44.6 J	58.2 J	59 J	78.5 J	

Note(s)

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected, the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-WE2	CL-59-01-WE3	CL-59-01-WE4	CL-59-01-WE5	CL-59-01-WN1	CL-59-01-WN2	CL-59-01-WN3	CL-59-01-WN4	CL-59-01-WN5
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-WE2	CL-59-01-WE3	CL-59-01-WE4	CL-59-01-WE5	CL-59-01-WN1	CL-59-01-WN2	CL-59-01-WN3	CL-59-01-WN4	CL-59-01-WN5
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics										
1,1,1-Trichloroethane	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
1,1,2,2-Tetrachloroethane	UG/KG		6 U	23 U	6 U	5 U	6 R	7 U	6 U	5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
1,1,2-Trichloroethane	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
1,1-Dichloroethane	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
1,1-Dichloroethene	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
1,2,3-Trichloropropane	UG/KG									
1,2,4-Trichlorobenzene	UG/KG	6 U	6 U	23 U	6 U	5 U	6 R	7 U	6 U	5 U
1,2-Dibromo-3-chloropropane	UG/KG	6 U	6 U	23 U	6 U	5 U	6 R	7 U	6 U	5 U
1,2-Dichloroethane	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
1,2-Dichlorobenzene	UG/KG	6 U	6 U	23 U	6 U	5 U	6 R	7 U	6 U	5 U
1,2-Dichloroethane	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
1,2-Dichloroethene (total)	UG/KG									
1,2-Dichloropropane	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
1,3-Dichlorobenzene	UG/KG	6 U	6 U	23 U	6 U	5 U	6 R	7 U	6 U	5 U
1,3-Dichloropropane	UG/KG									
1,4-Dichlorobenzene	UG/KG	6 U	6 U	23 U	6 U	5 U	6 R	7 U	6 U	5 U
Acetone	UG/KG	110 NJ	220 NJ	550 NJ	45 NJ	5 U	6 U	7 U	6 U	50 NJ
Benzene	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Bromodichloromethane	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Bromoform	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Carbon disulfide	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Carbon tetrachloride	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Chlorobenzene	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Chlorodibromomethane	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Chloroethane	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Chloroform	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Cis-1,2-Dichloroethene	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Cis-1,3-Dichloropropene	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Cyclohexane	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-WE2	CL-59-01-WE3	CL-59-01-WE4	CL-59-01-WE5	CL-59-01-WN1	CL-59-01-WN2	CL-59-01-WN3	CL-59-01-WN4	CL-59-01-WN5
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-WE2	CL-59-01-WE3	CL-59-01-WE4	CL-59-01-WE5	CL-59-01-WN1	CL-59-01-WN2	CL-59-01-WN3	CL-59-01-WN4	CL-59-01-WN5
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dichlorodifluoromethane	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Ethyl benzene	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Isopropylbenzene	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Meta/Para Xylene	UG/KG									
Methyl Acetate	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Methyl Tertbutyl Ether	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Methyl bromide	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Methyl butyl ketone	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Methyl chloride	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Methyl cyclohexane	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Methyl ethyl ketone	UG/KG	13 J	61 J	190 J	6 U	5 U	6 U	7 U	6 U	5 U
Methyl isobutyl ketone	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Methylene chloride	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Ortho Xylene	UG/KG									
Styrene	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Tetrachloroethene	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Toluene	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Total BTEX	MG/KG									
Total Xylenes	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Trans 1,2-Dichloroethene	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Trans-1,3-Dichloropropene	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Trichloroethene	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Trichlorofluoromethane	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Vinyl chloride	UG/KG	6 U	6 U	23 U	6 U	5 U	6 U	7 U	6 U	5 U
Semivolatile Organics										
1,1'-Biphenyl	UG/KG	420 U	410 U	460 U	390 U	360 U	59 NJ	470 U	400 U	400 U
1,2,4-Trichlorobenzene	UG/KG									
1,2-Dichlorobenzene	UG/KG									
1,3-Dichlorobenzene	UG/KG									
1,4-Dichlorobenzene	UG/KG									
2,2'-oxybis(1-Chloropropane)	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
2,4,5-Trichlorophenol	UG/KG	1100 U	1000 U	1200 U	980 U	920 U	1100 U	1200 U	1000 U	1000 U
2,4,6-Trichlorophenol	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
2,4-Dichlorophenol	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
2,4-Dimethylphenol	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
2,4-Dinitrophenol	UG/KG	1100 U	1000 U	1200 U	980 U	920 U	1100 U	1200 U	1000 U	1000 U
2,4-Dinitrotoluene	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
2,6-Dinitrotoluene	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
2-Chloronaphthalene	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
2-Chlorophenol	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
2-Methylnaphthalene	UG/KG	420 U	410 U	460 U	390 U	360 U	420 J	130 J	250 J	400 U
2-Methylphenol	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
2-Nitroaniline	UG/KG	1100 U	1000 U	1200 U	980 U	920 U	1100 U	1200 U	1000 U	1000 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-WE2	CL-59-01-WE3	CL-59-01-WE4	CL-59-01-WE5	CL-59-01-WN1	CL-59-01-WN2	CL-59-01-WN3	CL-59-01-WN4	CL-59-01-WN5
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-WE2	CL-59-01-WE3	CL-59-01-WE4	CL-59-01-WE5	CL-59-01-WN1	CL-59-01-WN2	CL-59-01-WN3	CL-59-01-WN4	CL-59-01-WN5
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
2-Nitrophenol	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
3,3'-Dichlorobenzidine	UG/KG	420 U	410 UJ	460 UJ	390 U	360 U	430 U	470 U	400 U	400 U
3-Nitroaniline	UG/KG	1100 U	1000 U	1200 U	980 U	920 U	1100 U	1200 U	1000 U	1000 U
4,6-Dinitro-2-methylphenol	UG/KG	1100 U	1000 U	1200 U	980 U	920 U	1100 U	1200 U	1000 U	1000 U
4-Bromophenyl phenyl ether	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
4-Chloro-3-methylphenol	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
4-Chloroaniline	UG/KG	420 U	410 U	460 U	390 U	360 U	1200	130 J	400 U	400 U
4-Chlorophenyl phenyl ether	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
4-Methylphenol	UG/KG	420 U	410 U	90 J	390 U	360 U	24 NJ	470 U	400 U	150 J
4-Nitroaniline	UG/KG	1100 U	1000 U	1200 U	980 U	920 U	1100 U	1200 U	1000 U	1000 U
4-Nitrophenol	UG/KG	1100 U	1000 U	1200 U	980 U	920 U	1100 U	1200 U	1000 U	1000 U
Acenaphthene	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	130 J	400 U
Acenaphthylene	UG/KG	420 U	410 U	460 U	390 U	360 U	90 J	160 J	160 J	400 U
Acetophenone	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
Aniline	UG/KG									
Anthracene	UG/KG	420 U	410 U	460 U	390 U	360 U	130 J	190 J	330 J	400 U
Atrazine	UG/KG	420 U	410 U	460 U	390 U	360 U	120 J	470 U	400 U	400 U
Benzaldehyde	UG/KG	420 U	410 U	50 J	390 U	360 U	430 U	470 U	400 U	400 U
Benzo(a)anthracene	UG/KG	420 U	410 U	460 U	390 U	360 U	360 J	670 NJ	600 NJ	62 NJ
Benzo(a)pyrene	UG/KG	420 U	410 U	460 U	390 U	360 U	330 J	620	640	53 J
Benzo(b)fluoranthene	UG/KG	420 U	410 U	460 U	390 U	360 U	670	1000	720	67 J
Benzo(g,h,i)perylene	UG/KG	420 U	410 U	460 U	390 U	360 U	250 J	260 J	360 J	400 U
Benzo(k)fluoranthene	UG/KG	420 U	410 U	460 U	390 U	360 U	220 J	370 J	310 J	400 U
Benzoic Acid	UG/KG									
Bis(2-Chloroethoxy)methane	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
Bis(2-Chloromethyl)ether	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
Bis(2-Chloroisopropyl)ether	UG/KG									
Bis(2-Ethylhexyl)phthalate	UG/KG	420 U	410 U	460 U	390 U	25 J	44 NJ	55 J	41 J	400 U
Butylbenzylphthalate	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
Caprolactam	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
Carbazole	UG/KG	420 U	410 U	460 U	390 U	360 U	98 J	470 U	140 J	400 U
Chrysene	UG/KG	420 U	410 U	460 U	390 U	360 U	550 NJ	700	590	60 J
Di-n-butylphthalate	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
Di-n-octylphthalate	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
Dibenz(a,h)anthracene	UG/KG	420 U	410 U	460 U	390 U	360 U	67 J	89 J	99 J	400 U
Dibenzofuran	UG/KG	420 U	410 U	460 U	390 U	360 U	110 J	470 U	120 J	400 U
Diethyl phthalate	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
Dimethyl phthalate	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
Fluoranthene	UG/KG	420 U	410 U	460 U	390 U	360 U	930	1000	1100	130 J
Fluorene	UG/KG	420 U	410 U	460 U	390 U	360 U	40 NJ	470 U	220 J	400 U
Hexachlorobenzene	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
Hexachlorobutadiene	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
Hexachlorocyclopentadiene	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-WE2	CL-59-01-WE3	CL-59-01-WE4	CL-59-01-WE5	CL-59-01-WN1	CL-59-01-WN2	CL-59-01-WN3	CL-59-01-WN4	CL-59-01-WN5
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-WE2	CL-59-01-WE3	CL-59-01-WE4	CL-59-01-WE5	CL-59-01-WN1	CL-59-01-WN2	CL-59-01-WN3	CL-59-01-WN4	CL-59-01-WN5
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Hexachloroethane	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
Indeno(1,2,3-cd)pyrene	UG/KG	420 U	410 U	460 U	390 U	360 U	270 J	340 J	390 J	400 U
Isophorone	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
N-Nitrosodiphenylamine	UG/KG	420 U	410 U	460 U	390 U	360 U	100 J	470 U	400 U	400 U
N-Nitrosodipropylamine	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
Naphthalene	UG/KG	420 U	410 U	460 U	390 U	360 U	170 J	88 J	180 J	400 U
Nitrobenzene	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
Pentachlorophenol	UG/KG	1100 U	1000 U	1200 U	980 U	920 U	1100 U	1200 U	1060 U	1000 U
Phenanthrene	UG/KG	420 U	410 U	460 U	390 U	360 U	580	230 J	1300	140 J
Phenol	UG/KG	420 U	410 U	460 U	390 U	360 U	430 U	470 U	400 U	400 U
Pyrene	UG/KG	420 U	410 U	460 U	390 U	360 U	900	1100	1100	100 J
Pyridine	UG/KG		410 U	460 U	390 U					
Total Unknown PAHs as SV	MG/KG									
Pesticides/PCBs										
4,4'-DDD	UG/KG	4.2 U	4.1 U	4.6 U	20 U	9.7	740 J	340 J	5.5 J	4 U
4,4'-DDE	UG/KG	4.2 U	4.1 U	10	20 U	3.5	2600	760	26	14 J
4,4'-DDT	UG/KG	4.2 U	4.1 U	4.6 U	57	6.1	3700	1200	22	4 U
Aldrin	UG/KG	2.2 U	2.1 U	2.4 U	10 U	1.9 U	220 U	48 U	2.1 U	2 U
Alpha-BHC	UG/KG	2.2 U	2.1 U	2.4 U	10 U	1.9 U	220 U	48 U	2.1 U	2 U
Alpha-Chlordane	UG/KG	2.2 U	2.1 U	2.4 U	10 U	1.9 U	220 U	48 U	2.1 U	2 U
Beta-BHC	UG/KG	2.2 U	2.1 U	2.4 U	10 U	1.9 U	220 U	48 U	2.1 U	2 U
Delta-BHC	UG/KG	2.2 U	2.1 U	2.4 U	10 U	1.9 U	220 U	48 U	2.1 U	2 U
Dieldrin	UG/KG	4.2 U	4.1 U	4.6 U	20 U	3.6 U	430 U	94 U	4 U	4 U
Endosulfan I	UG/KG	2.2 U	2.1 U	2.4 U	10 U	1.9 U	220 U	48 U	2.1 U	2 U
Endosulfan II	UG/KG	4.2 U	4.1 U	4.6 U	20 U	3.6 U	430 U	94 U	4 U	4 U
Endosulfan sulfate	UG/KG	4.2 U	4.1 U	4.6 U	20 U	3.6 U	430 U	94 U	4 U	4 U
Endrin	UG/KG	4.2 U	4.1 U	4.6 U	20 U	3.6 U	430 U	94 U	4 U	4 U
Endrin aldehyde	UG/KG	4.2 U	4.1 U	4.6 U	20 U	3.6 U	430 U	94 U	4 U	4 U
Endrin ketone	UG/KG	4.2 U	4.1 U	4.6 U	20 U	3.6 U	430 U	94 U	4 U	4 U
Gamma-BHC/Lindane	UG/KG	2.2 U	2.1 U	2.4 U	10 U	1.9 U	220 U	48 U	2.1 U	2 U
Gamma-Chlordane	UG/KG	2.2 U	2.1 U	2.4 U	10 U	1.9 U	220 U	48 U	2.1 U	2 U
Heptachlor	UG/KG	2.2 U	2.1 U	2.4 U	10 U	1.9 U	220 U	48 U	2.1 U	2 U
Heptachlor epoxide	UG/KG	2.2 U	2.1 U	2.4 U	10 U	1.9 U	220 U	48 U	2.1 U	2 U
Methoxychlor	UG/KG	32 U	21 U	24 U	100 U	19 U	2200 U	480 U	21 U	20 U
Toxaphene	UG/KG	220 U	210 U	240 U	1000 U	190 U	22000 U	4800 U	210 U	200 U
Aroclor-1016	UG/KG	42 U	42 U	46 U	40 U	37 U	44 U	47 U	41 U	40 U
Aroclor-1221	UG/KG	42 U	42 U	46 U	40 U	37 U	44 U	47 U	41 U	40 U
Aroclor-1232	UG/KG	42 U	42 U	46 U	40 U	37 U	44 U	47 U	41 U	40 U
Aroclor-1242	UG/KG	42 U	42 U	46 U	40 U	37 U	44 U	47 U	41 U	40 U
Aroclor-1248	UG/KG	42 U	42 U	46 U	40 U	37 U	44 U	47 U	41 U	40 U
Aroclor-1254	UG/KG	42 U	42 U	46 U	40 U	37 U	44 U	47 U	41 U	40 U
Aroclor-1260	UG/KG	42 U	42 U	46 U	40 U	37 U	44 U	47 U	41 U	40 U
Metals										

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-WE2	CL-59-01-WE3	CL-59-01-WE4	CL-59-01-WE5	CL-59-01-WN1	CL-59-01-WN2	CL-59-01-WN3	CL-59-01-WN4	CL-59-01-WN5
	Maxtrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-WE2	CL-59-01-WE3	CL-59-01-WE4	CL-59-01-WE5	CL-59-01-WN1	CL-59-01-WN2	CL-59-01-WN3	CL-59-01-WN4	CL-59-01-WN5
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	13900 J	12900	13000	16200 J	13900 J	16300 J	12400 J	13500 J	13800 J
Antimony	MG/KG	1.3 J	1.8 J	1.9 J	1.6 J	1.4 J	5.1 J	3.9 J	1.6 J	1.7 J
Arsenic	MG/KG	6.9 J	5.6	5	5 J	6.7	32.2	16.7 J	6.3 J	4.7 J
Barium	MG/KG	139 J	132 J	126 J	199 J	110 J	115 J	83.3 J	127 J	138 J
Beryllium	MG/KG	0.76	0.75	0.75	0.79	0.68	2.6	1.4 J	0.89	0.73
Cadmium	MG/KG	0.41	0.8	0.99	0.77	0.25 J	2.5	1.6 J	0.54	0.39
Calcium	MG/KG	3510 J	3580	6380	1860 J	3880	9170	22700 J	5020 J	3020 J
Chromium	MG/KG	19.5 J	18.3 J	18.3 J	22.3 J	20.4 J	39.3 J	33.6 J	16.9 J	22.3 J
Cobalt	MG/KG	9.4 J	10.2	8.6	9.7 J	9	47.8	30.4 J	9.4 J	9.1 J
Copper	MG/KG	18.9 J	19.5	33.5	19.2 J	22.4 J	194 J	96.7 J	22.6 J	27.4 J
Cyanide	MG/KG									
Iron	MG/KG	24500 J	22800	20200	23600 J	25100 J	64000 J	32700 J	19400 J	24600 J
Lead	MG/KG	15.9 J	18.6 J	25.7 J	15.2 J	14.4 J	140 J	108 J	81.5 J	13.3 J
Magnesium	MG/KG	3850 J	4010 J	3470 J	4230 J	4630 J	5480 J	7370 J	3080 J	5140 J
Manganese	MG/KG	544 J	583 J	665 J	417 J	360 J	836 J	595 J	600 J	620 J
Mercury	MG/KG	0.06	0.08	0.1	0.07	0.08	0.15	0.1	0.1	0.03 J
Nickel	MG/KG	26.1 J	28 J	24.5 J	25.9 J	29.2 J	88.3 J	57.2 J	23.9 J	30 J
Potassium	MG/KG	1230 J	1180	1250	1380 J	1200	1640	1460 J	1160 J	1120 J
Selenium	MG/KG	0.45 U	0.45 U	1.5 J	0.45 U	0.43 U	0.49 U	0.46 U	0.77 J	0.42 U
Silver	MG/KG	1.3	0.8	0.81	0.77	2	2.3	1.3	1	1.2
Sodium	MG/KG	108 J	354	2400	4060 J	159	186	224 J	50.8 J	514 J
Thallium	MG/KG	0.22 U	0.22 U	0.28 U	0.23 U	0.22 U	0.25 U	0.23 U	0.22 U	0.21 U
Vanadium	MG/KG	23 J	21.2 J	21.3 J	24.3 J	22.8 J	26 J	24.8 J	20.7 J	23.3 J
Zinc	MG/KG	90.8 J	69 J	90.4 J	105 J	147 J	298 J	233 J	73.6 J	63.3 J

Notes:

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected; the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-WN6	CL-59-01-WS1	CL-59-01-WS2	CL-59-01-WS3	CL-59-01-WS4	CL-59-01-WS5	CL-59-01-WS6	CL-59-01-WW1	CL-59-01-WW2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-WN6	CL-59-01-WS1	CL-59-01-WS2	CL-59-01-WS3	CL-59-01-WS4	CL-59-01-WS5	CL-59-01-WS6	CL-59-01-WW1	CL-59-01-WW2
Sample Depth to Top of Sample ⁽¹⁾		0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample ⁽¹⁾		0	0	0	0	0	0	0	0	0
Sample Date		5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code		SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID		ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics										
1,1,1-Trichloroethane	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
1,1,2,2-Tetrachloroethane	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 R	6 U	6 R	5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
1,1,2-Trichloroethane	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
1,1-Dichloroethane	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
1,1-Dichloroethene	UG/KG	6 U	5.9 U	1 J	5 U	2 J	8 J	6 U	6 U	5 U
1,2,3-Trichloropropane	UG/KG		5.9 U							
1,2,4-Trichlorobenzene	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 R	6 U	6 R	5 U
1,2-Dibromo-3-chloropropane	UG/KG	6 U		6 U	5 U	6 U	6 R	6 U	6 R	5 U
1,2-Dibromoethane	UG/KG	6 U		6 U	5 U	6 U	6 U	6 U	6 U	5 U
1,2-Dichlorobenzene	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 R	6 U	6 R	5 U
1,2-Dichloroethane	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
1,2-Dichloroethene (total)	UG/KG									
1,2-Dichloropropane	UG/KG	6 U		6 U	5 U	6 U	6 U	6 U	6 U	5 U
1,3-Dichlorobenzene	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 R	6 U	6 R	5 U
1,3-Dichloropropane	UG/KG		5.9 U							
1,4-Dichlorobenzene	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 R	6 U	6 R	5 U
Acetone	UG/KG	69 U	23 U	6 U	5 U	36 U	6 U	11 U	14 U	46 U
Benzene	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
Bromodichloromethane	UG/KG	6 U		6 U	5 U	6 U	6 U	6 U	6 U	5 U
Bromoform	UG/KG	6 U		6 U	5 U	6 U	6 U	6 U	6 U	5 U
Carbon disulfide	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
Carbon tetrachloride	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
Chlorobenzene	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
Chlorodibromomethane	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
Chloroethane	UG/KG	6 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
Chloroform	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
Cis-1,2-Dichloroethane	UG/KG	6 U		6 U	5 U	6 U	6 U	6 U	6 U	5 U
Cis-1,3-Dichloropropene	UG/KG	6 U		6 U	5 U	6 U	6 U	6 U	6 U	5 U
Cyclohexane	UG/KG	6 U		6 U	5 U	6 U	6 U	6 U	6 U	5 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Parameter	Units	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
		CL-59-01-WN6	CL-59-01-WS1	CL-59-01-WS2	CL-59-01-WS3	CL-59-01-WS4	CL-59-01-WS5	CL-59-01-WS6	CL-59-01-WW1	CL-59-01-WW2
Location ID	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
Sample Depth to Top of Sample ⁽¹⁾	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
Sample Depth to Bottom of Sample ⁽¹⁾	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1
		Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dichlorodifluoromethane	UG/KG	6 U		6 U	5 U	6 U	6 U	6 U	6 U	5 U
Ethyl benzene	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
Isopropylbenzene	UG/KG	6 U		6 U	5 U	6 U	6 U	6 U	6 U	5 U
Meta/Para Xylene	UG/KG		5.9 U							
Methyl Acetate	UG/KG	6 U		6 U	5 U	6 U	6 U	6 U	6 U	5 U
Methyl Tertiary Ether	UG/KG	6 U		6 U	5 U	6 U	6 U	6 U	6 U	5 U
Methyl bromide	UG/KG	6 U		6 U	5 U	6 U	6 U	6 U	6 U	5 U
Methyl butyl ketone	UG/KG	6 U		6 U	5 U	6 U	6 U	6 U	6 U	5 U
Methyl chloride	UG/KG	6 U		6 U	5 U	6 U	6 U	6 U	6 U	5 U
Methyl cyclohexane	UG/KG	6 U		6 U	5 U	6 U	6 U	6 U	6 U	5 U
Methyl ethyl ketone	UG/KG	7 J	12 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
Methyl isobutyl ketone	UG/KG	6 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
Methylene chloride	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 U	6 U	6 U	11 U
Ortho Xylene	UG/KG		5.9 U							
Styrene	UG/KG	6 U		6 U	5 U	6 U	6 U	6 U	6 U	5 U
Tetrachloroethene	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
Toluene	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
Total BTEX	MG/KG									
Total Xylenes	UG/KG	6 U		6 U	5 U	6 U	6 R	6 U	6 R	5 U
Trans-1,2-Dichloroethene	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
Trans-1,3-Dichloropropene	UG/KG	6 U		6 U	5 U	6 U	6 U	6 U	6 U	5 U
Trichloroethene	UG/KG	6 U	5.9 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
Trichlorofluoromethane	UG/KG	6 U		6 U	5 U	6 U	6 U	6 U	6 U	5 U
Vinyl chloride	UG/KG	6 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U	5 U
Semivolatile Organics										
1,1'-Biphenyl	UG/KG	370 U		380 U	360 U	380 U	390 U	380 U	390 U	380 U
1,2,4-Trichlorobenzene	UG/KG									
1,2-Dichlorobenzene	UG/KG									
1,3-Dichlorobenzene	UG/KG									
1,4-Dichlorobenzene	UG/KG									
2,2'-oxybis(1-Chloropropane)	UG/KG	370 U		380 U	360 U	380 U	390 U	380 U	390 U	380 U
2,4,5-Trichlorophenol	UG/KG	940 U	390 U	960 U	920 U	970 U	990 U	960 U	980 U	960 U
2,4,6-Trichlorophenol	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U
2,4-Dichlorophenol	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U
2,4-Dimethylphenol	UG/KG	370 U		380 U	360 U	380 U	390 U	380 U	390 U	380 U
2,4-Dinitrophenol	UG/KG	940 U	2000 U	960 U	920 U	970 U	990 U	960 U	980 U	960 U
2,4-Dinitrotoluene	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U
2,6-Dinitrotoluene	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U
2-Chloronaphthalene	UG/KG	370 U		380 U	360 U	380 U	390 U	380 U	390 U	380 U
2-Chlorophenol	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U
2-Methylnaphthalene	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U
2-Methylphenol	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U
2-Nitroaniline	UG/KG	940 U	2000 U	960 U	920 U	970 U	990 U	960 U	980 U	960 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Parameter	Units	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
		Location ID	CL-59-01-WN6	CL-59-01-WS1	CL-59-01-WS2	CL-59-01-WS3	CL-59-01-WS4	CL-59-01-WS5	CL-59-01-WS6	CL-59-01-WW1	CL-59-01-WW2
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample ID	CL-59-01-WN6	CL-59-01-WS1	CL-59-01-WS2	CL-59-01-WS3	CL-59-01-WS4	CL-59-01-WS5	CL-59-01-WS6	CL-59-01-WW1	CL-59-01-WW2
		Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
		Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
		Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
		QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
		Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
			1	1	1	1	1	1	1	1	1
		Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
2-Nitrophenol	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
3,3'-Dichlorobenzidine	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
3-Nitroaniline	UG/KG	940 U	2000 U	960 U	920 U	970 U	990 U	960 U	980 U	960 U	960 U
4,6-Dinitro-2-methylphenol	UG/KG	940 U		960 U	920 U	970 U	990 U	960 U	980 U	960 U	960 U
4-Bromophenyl phenyl ether	UG/KG	370 U		380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
4-Chloro-3-methylphenol	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
4-Chloroaniline	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
4-Chlorophenyl phenyl ether	UG/KG	370 U		380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
4-Methylphenol	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
4-Nitroaniline	UG/KG	940 U		960 U	920 U	970 U	990 U	960 U	980 U	960 U	960 U
4-Nitrophenol	UG/KG	940 U	2000 U	960 U	920 U	970 U	990 U	960 U	980 U	960 U	960 U
Acenaphthene	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
Acenaphthylene	UG/KG	39 J	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
Acetophenone	UG/KG	370 U		380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
Aniline	UG/KG		390 U								
Anthracene	UG/KG	370 U	390 U	380 U	360 U	47 J	120 J	380 U	390 U	380 U	380 U
Atrazine	UG/KG	370 U		380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
Benzaldehyde	UG/KG	370 U		380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
Benzof(a)anthracene	UG/KG	170 NJ	390 U	380 U	360 U	380 U	360 J	380 U	390 U	380 U	380 U
Benzo(a)pyrene	UG/KG	240 J	390 U	380 U	360 U	380 U	360 J	380 U	390 U	380 U	380 U
Benzo(b)fluoranthene	UG/KG	300 J	390 U	380 U	360 U	380 U	510	380 U	390 U	380 U	380 U
Benzo(g,h,i)perylene	UG/KG	170 J	390 U	380 U	360 U	380 U	190 J	380 U	390 U	380 U	380 U
Benzo(k)fluoranthene	UG/KG	120 J	390 U	380 U	360 U	380 U	200 J	380 U	390 U	380 U	380 U
Benzoic Acid	UG/KG		2000 U								
Bis(2-Chloroethoxy)methane	UG/KG	370 U		380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
Bis(2-Chloroethyl)ether	UG/KG	370 U		380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
Bis(2-Chloroisopropyl)ether	UG/KG										
Bis(2-Ethylhexyl)phthalate	UG/KG	370 U	390 U	380 U	360 U	47 J	86 J	380 U	26 J	380 U	380 U
Butylbenzylphthalate	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
Caprolactam	UG/KG	370 U		380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
Carbazole	UG/KG	370 U		380 U	360 U	380 U	110 J	380 U	390 U	380 U	380 U
Chrysene	UG/KG	180 J	390 U	380 U	360 U	380 U	410	380 U	390 U	380 U	380 U
Di-n-butylphthalate	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
Di-n-octylphthalate	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
Dibenz(a,h)anthracene	UG/KG	38 J	390 U	380 U	360 U	380 U	58 J	380 U	390 U	380 U	380 U
Dibenzofuran	UG/KG	370 U	390 U	380 U	360 U	380 U	64 J	380 U	390 U	380 U	380 U
Diethyl phthalate	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
Dimethylphthalate	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
Fluoranthene	UG/KG	240 J	390 U	380 U	360 U	380 U	800	380 U	390 U	380 U	380 U
Fluorene	UG/KG	370 U	390 U	380 U	360 U	380 U	72 J	380 U	390 U	380 U	380 U
Hexachlorobenzene	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
Hexachlorobutadiene	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U
Hexachlorocyclopentadiene	UG/KG	370 U		380 U	360 U	380 U	390 U	380 U	390 U	380 U	380 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Parameter	Units	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
		CL-59-01-WN6	CL-59-01-WS1	CL-59-01-WS2	CL-59-01-WS3	CL-59-01-WS4	CL-59-01-WS5	CL-59-01-WS6	CL-59-01-WW1	CL-59-01-WW2
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	CL-59-01-WN6	CL-59-01-WS1	CL-59-01-WS2	CL-59-01-WS3	CL-59-01-WS4	CL-59-01-WS5	CL-59-01-WS6	CL-59-01-WW1	CL-59-01-WW2	
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	
	I	I	I	I	I	I	I	I	I	
Hexachloroethane	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U
Indeno(1,2,3-cd)pyrene	UG/KG	170 J	390 U	380 U	360 U	380 U	210 J	380 U	390 U	380 U
Isophorone	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U
N-Nitrosodiphenylamine	UG/KG	370 U	380 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U
N-Nitrosodipropylamine	UG/KG	370 U	380 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U
Naphthalene	UG/KG	370 U	390 U	380 U	360 U	380 U	77 J	380 U	390 U	380 U
Nitrobenzene	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U
Pentachlorophenol	UG/KG	940 U	2000 U	960 U	920 U	970 U	990 U	960 U	980 U	960 U
Phenanthrene	UG/KG	72 J	390 U	380 U	360 U	41 NJ	600	380 U	390 U	380 U
Phenol	UG/KG	370 U	390 U	380 U	360 U	380 U	390 U	380 U	390 U	380 U
Pyrene	UG/KG	240 J	390 U	380 U	360 U	380 U	660	380 U	390 U	25 J
Pyridine	UG/KG		2000 U	380 U	360 U	380 U	390 U	380 U		
Total Unknown PAHs as SV	MG/KG									
Pesticides/PCBs										
4,4'-DDD	UG/KG	3.8 U	19 U	3.8 U	3.6 U	5.4	35 J	3.8 U	3.9 U	3.9 U
4,4'-DDE	UG/KG	15	19 U	3.8 U	3.6 U	3.8 U	32 NJ	3.8 U	3.9 U	3.9 U
4,4'-DDT	UG/KG	3.8 U	19 U	3.8 U	3.6 U	3.8 U	16	3.8 U	3.9 U	3.9 U
Aldrin	UG/KG	1.9 U	10 U	2 U	1.9 U	2 U	2 U	2 U	2 U	2 U
Alpha-BHC	UG/KG	1.9 U	10 U	2 U	1.9 U	2 U	2 U	2 U	2 U	2 U
Alpha-Chlordane	UG/KG	1.9 U	10 U	2 U	1.9 U	2 U	2 U	2 U	2 U	2 U
Beta-BHC	UG/KG	1.9 U	10 U	2 U	1.9 U	2 U	2.4 J	2 U	2 U	2 U
Delta-BHC	UG/KG	1.9 U	10 U	2 U	1.9 U	2 U	2 U	2 U	2 U	2 U
Dieldrin	UG/KG	3.8 U	19 U	3.8 U	3.6 U	3.8 U	3.9 U	3.8 U	3.9 U	3.9 U
Endosulfan I	UG/KG	1.9 U	10 U	2 U	1.9 U	2 U	2 U	2 U	2 U	2 U
Endosulfan II	UG/KG	3.8 U	19 U	3.8 U	3.6 U	3.8 U	3.9 U	3.8 U	3.9 U	3.9 U
Endosulfan sulfate	UG/KG	3.8 U	19 U	3.8 U	3.6 U	3.8 U	3.9 U	3.8 U	3.9 U	3.9 U
Endrin	UG/KG	3.8 U	19 U	3.8 U	3.6 U	3.8 U	3.9 U	3.8 U	3.9 U	3.9 U
Endrin aldehyde	UG/KG	3.8 U	19 U	3.8 U	3.6 U	3.8 U	3.9 U	3.8 U	3.9 U	3.9 U
Endrin ketone	UG/KG	3.8 U	19 U	3.8 U	3.6 U	3.8 U	3.9 U	3.8 U	3.9 U	3.9 U
Gamma-BHC/Lindane	UG/KG	1.9 U	10 U	2 U	1.9 U	2 U	2 U	2 U	2 U	2 U
Gamma-Chlordane	UG/KG	1.9 U	10 U	2 U	1.9 U	2 U	2 U	2 U	2 U	2 U
Heptachlor	UG/KG	1.9 U	10 U	2 U	1.9 U	2 U	2 U	2 U	2 U	2 U
Heptachlor epoxide	UG/KG	1.9 U	10 U	2 U	1.9 U	2 U	2 U	2 U	2 U	2 U
Methoxychlor	UG/KG	19 U	100 U	20 U	19 U	20 U	20 U	20 U	20 U	20 U
Toxaphene	UG/KG	190 U	190 U	200 U	190 U	200 U	200 U	200 U	200 U	200 U
Aroclor-1016	UG/KG	38 U	39 U	38 U	37 U	38 U	40 U	38 U	40 U	39 U
Aroclor-1221	UG/KG	38 U	39 U	38 U	37 U	38 U	40 U	38 U	40 U	39 U
Aroclor-1232	UG/KG	38 U	39 U	38 U	37 U	38 U	40 U	38 U	40 U	39 U
Aroclor-1242	UG/KG	38 U	39 U	38 U	37 U	38 U	40 U	38 U	40 U	39 U
Aroclor-1248	UG/KG	38 U	39 U	38 U	37 U	38 U	40 U	38 U	40 U	39 U
Aroclor-1254	UG/KG	38 U	39 U	38 U	37 U	38 U	40 U	38 U	40 U	39 U
Aroclor-1260	UG/KG	38 U	39 U	38 U	37 U	38 U	40 U	38 U	40 U	39 U
Metals										

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-WN6	CL-59-01-WS1	CL-59-01-WS2	CL-59-01-WS3	CL-59-01-WS4	CL-59-01-WS5	CL-59-01-WS6	CL-59-01-WW1	CL-59-01-WW2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-WN6	CL-59-01-WS1	CL-59-01-WS2	CL-59-01-WS3	CL-59-01-WS4	CL-59-01-WS5	CL-59-01-WS6	CL-59-01-WW1	CL-59-01-WW2
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	7700 J	11400	10400 J	5520 J	12700 J	7150 J	12600 J	16900 J	14000 J
Antimony	MG/KG	1.3 J	3.5 UJ	1.6 J	0.8 J	1.6 J	1.4 J	1.8 J	1.7 J	1.9 J
Arsenic	MG/KG	4.7 J	5.7 J	6 J	2.6 J	4.8 J	2.8 J	10.3 J	5.8	5.5
Barium	MG/KG	62.8 J	149	84.1 J	50.2 J	100 J	76.8 J	158 J	192 J	176 J
Beryllium	MG/KG	0.41	0.3	0.49	0.23 J	0.66	0.42	0.73	0.91	0.66
Cadmium	MG/KG	0.29 J	0.29 U	0.51	0.28 J	0.63	0.96	0.88	0.39	0.41
Calcium	MG/KG	119000 J	2920 J	11100 J	86000 J	1620 J	58000 J	2100 J	7600	6170
Chromium	MG/KG	11.7 J	18.8	14.8 J	7.6 J	18.4 J	15.9 J	20.1 J	20.3 J	19.7 J
Cobalt	MG/KG	7.9 J	13.6	8.3 J	3.9 J	10.2 J	6.4 J	17.7 J	7.6	10.4
Copper	MG/KG	17.9 J	16	24.4 J	13.4 J	15.1 J	50.9 J	26 J	24.3 J	17.9 J
Cyanide	MG/KG									
Iron	MG/KG	17000 J	25600 J	19600 J	9350 J	20300 J	11400 J	27600 J	22900 J	25600 J
Lead	MG/KG	9.3 J	12.9	9.9 J	4.1 J	14.2 J	72.6 J	16.5 J	22.7 J	26.3 J
Magnesium	MG/KG	7890 J	3890	4980 J	30200 J	3530 J	9980 J	4640 J	4270 J	4470 J
Manganese	MG/KG	360 J	844 J	371 J	350 J	512 J	272 J	1290 J	400 J	769 J
Mercury	MG/KG	0.02 J	0.04	0.02 U	0.02 U	0.08	0.07	0.09	0.15	0.11
Nickel	MG/KG	21.5 J	29.7	23.9 J	9 J	22.6 J	23.6 J	40.6 J	23.5 J	25.3 J
Potassium	MG/KG	937 J	1050	1110 J	1380 J	1000 J	1080 J	872 J	1360	1150
Selenium	MG/KG	0.4 U	0.58 U	0.38 U	0.39 U	0.79 J	0.55 J	0.47 U	0.45 U	0.47 U
Silver	MG/KG	0.1 U	0.58 U	0.48 J	0.1 U	0.72	0.1 U	0.83	1.9	2.1
Sodium	MG/KG	209 J	34.7 J	114 J	418 J	1480 J	956 J	2230 J	139	58.6
Thallium	MG/KG	0.2 U	0.86 J	0.19 U	0.3 J	0.21 U	0.2 U	0.23 U	0.23 U	0.23 U
Vanadium	MG/KG	12.9 J	21.7	20.7 J	11.6 J	21.8 J	17.8 J	24.6 J	25.1 J	22.2 J
Zinc	MG/KG	37.3 J	70.4 J	45.1 J	20.3 J	60.7 J	99.5 J	74.1 J	75.2 J	95 J

Note(s).

(1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)

(2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected, the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-WW3	CL-59-01-WW4	CL-59-02-F01	CL-59-02-F02	CL-59-02-WE1	CL-59-02-WE2	CL-59-02-WN1	CL-59-02-WN2	CL-59-02-WS1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-WW3	CL-59-01-WW4	CL-59-02-F01	CL-59-02-F02	CL-59-02-WE1	CL-59-02-WE2	CL-59-02-WN1	CL-59-02-WN2	CL-59-02-WS1
	Sample Depth to Top of Sample (ft)	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample (ft)	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics										
1,1,1-Trichloroethane	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	UG/KG	5 U	5 R	5 UJ	5 R	5 UJ	4 U	5 U	5 U	5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
1,1,2-Trichloroethane	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
1,1-Dichloroethane	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
1,1-Dichloroethene	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
1,2,3-Trichloropropane	UG/KG									
1,2,4-Trichlorobenzene	UG/KG	5 U	5 R	5 UJ	5 R	5 UJ	4 U	5 U	5 U	5 U
1,2-Dibromo-3-chloropropane	UG/KG	5 U	5 R	5 UJ	5 R	5 UJ	4 U	5 U	5 U	5 U
1,2-Dibromoethane	UG/KG	5 U	5 UJ	5 U	5 R	5 UJ	4 U	5 U	5 U	5 U
1,2-Dichlorobenzene	UG/KG	5 U	5 R	5 UJ	5 R	5 UJ	4 U	5 U	5 U	5 U
1,2-Dichloroethane	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	UG/KG									
1,2-Dichloropropane	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
1,3-Dichlorobenzene	UG/KG	5 U	5 R	5 UJ	5 R	5 UJ	4 U	5 U	5 U	5 U
1,3-Dichloropropane	UG/KG									
1,4-Dichlorobenzene	UG/KG	5 U	5 R	5 UJ	5 R	5 UJ	4 U	5 U	5 U	5 U
Acetone	UG/KG	5 U	5 U	5 U	5 R	5 UJ	4 U	5 U	5 U	5 U
Benzene	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Bromodichloromethane	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Bromoform	UG/KG	5 U	5 UJ	5 U	5 R	5 UJ	4 U	5 U	5 U	5 U
Carbon disulfide	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Carbon tetrachloride	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Chlorobenzene	UG/KG	5 U	5 UJ	5 U	5 R	5 UJ	4 U	5 U	5 U	5 U
Chlorodibromomethane	UG/KG	5 U	5 UJ	5 U	5 R	5 UJ	4 U	5 U	5 U	5 U
Chloroethane	UG/KG	5 U	5 U	5 U	5 R	5 UJ	4 U	5 U	5 U	5 U
Chloroform	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Cis-1,2-Dichloroethene	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Cis-1,3-Dichloropropene	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Cyclohexane	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-WW3	CL-59-01-WW4	CL-59-02-F01	CL-59-02-F02	CL-59-02-WE1	CL-59-02-WE2	CL-59-02-WN1	CL-59-02-WN2	CL-59-02-WS1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-WW3	CL-59-01-WW4	CL-59-02-F01	CL-59-02-F02	CL-59-02-WE1	CL-59-02-WE2	CL-59-02-WN1	CL-59-02-WN2	CL-59-02-WS1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dichlorodifluoromethane	UG/KG	5 U	5 UJ	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Ethyl benzene	UG/KG	5 U	5 UJ	5 U	5 R	5 UJ	4 U	5 U	5 UJ	5 U
Isopropylbenzene	UG/KG	5 U	5 UJ	5 U	5 R	5 UJ	4 U	5 U	5 U	5 U
Meta/Para Xylene	UG/KG									
Methyl Acetate	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Methyl Tertiary Ether	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Methyl bromide	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Methyl butyl ketone	UG/KG	5 U	5 UJ	5 U	5 R	5 UJ	4 U	5 U	5 U	5 U
Methyl chloride	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Methyl cyclohexane	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Methyl ethyl ketone	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Methyl isobutyl ketone	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Methylene chloride	UG/KG	5 U	6 U	2 J	5 R	5 U	2 J	1 J	2 J	2 J
Ortho Xylene	UG/KG									
Styrene	UG/KG	5 U	5 UJ	5 U	5 R	5 UJ	4 U	5 U	5 U	5 U
Tetrachloroethene	UG/KG	5 U	5 UJ	5 U	5 R	5 UJ	4 U	5 U	5 U	5 U
Toluene	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Total BTEX	MG/KG									
Total Xylenes	UG/KG	5 U	5 R	5 UJ	5 R	5 UJ	4 U	5 U	5 U	5 U
Trans-1,2-Dichloroethene	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Trichloroethene	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Trichlorofluoromethane	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Vinyl chloride	UG/KG	5 U	5 U	5 U	5 R	5 U	4 U	5 U	5 U	5 U
Semivolatile Organics										
1,1'-Biphenyl	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
1,2,4-Trichlorobenzene	UG/KG									
1,2-Dichlorobenzene	UG/KG									
1,3-Dichlorobenzene	UG/KG									
1,4-Dichlorobenzene	UG/KG									
2,2'-oxybis(1-Chloropropane)	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
2,4,5-Trichlorophenol	UG/KG	920 U	920 U	930 U	940 U	960 U	890 U	1000 U	870 U	900 U
2,4,6-Trichlorophenol	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
2,4-Dichlorophenol	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
2,4-Dimethylphenol	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
2,4-Dinitrophenol	UG/KG	920 U	920 U	930 UJ	940 UJ	960 UJ	890 UJ	1000 UJ	870 U	900 U
2,4-Dinitrotoluene	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
2,6-Dinitrotoluene	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
2-Chloronaphthalene	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
2-Chlorophenol	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
2-Methylnaphthalene	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
2-Methylphenol	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
2-Nitroaniline	UG/KG	920 U	920 U	930 U	940 U	960 U	890 U	1000 U	870 U	900 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-WW3	CL-59-01-WW4	CL-59-02-F01	CL-59-02-F02	CL-59-02-WE1	CL-59-02-WE2	CL-59-02-WN1	CL-59-02-WN2	CL-59-02-WS1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-WW3	CL-59-01-WW4	CL-59-02-F01	CL-59-02-F02	CL-59-02-WE1	CL-59-02-WE2	CL-59-02-WN1	CL-59-02-WN2	CL-59-02-WS1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
2-Nitrophenol	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
3,3'-Dichlorobenzidine	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
3-Nitroaniline	UG/KG	920 U	920 U	930 U	940 U	960 U	890 U	1000 U	870 U	900 U
4,6-Dinitro-2-methylphenol	UG/KG	920 U	920 U	930 U	940 U	960 U	890 U	1000 U	870 U	900 U
4-Bromophenyl phenyl ether	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
4-Chloro-3-methylphenol	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
4-Chloroaniline	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
4-Chlorophenyl phenyl ether	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
4-Methylphenol	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
4-Nitroaniline	UG/KG	920 U	920 U	930 U	940 U	960 U	890 U	1000 U	870 U	900 U
4-Nitrophenol	UG/KG	920 U	920 U	930 U	940 U	960 U	890 U	1000 U	870 U	900 U
Acenaphthene	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Acenaphthylene	UG/KG	370 U	35 J	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Acetophenone	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Aniline	UG/KG									
Anthracene	UG/KG	370 U	92 J	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Atrazine	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Benzaldehyde	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Benzo(a)anthracene	UG/KG	370 U	210 J	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Benzo(a)pyrene	UG/KG	370 U	220 J	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Benzo(b)fluoranthene	UG/KG	370 U	280 J	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Benzo(g,h,i)perylene	UG/KG	370 U	130 J	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Benzo(k)fluoranthene	UG/KG	370 U	100 J	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Benzoic Acid	UG/KG									
Bis(2-Chloroethoxy)methane	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Bis(2-Chloroethyl)ether	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Bis(2-Chloroisopropyl)ether	UG/KG									
Bis(2-Ethylhexyl)phthalate	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Butylbenzylphthalate	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Caprolactam	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Carbazole	UG/KG	370 U	57 J	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Chrysene	UG/KG	370 U	230 NJ	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Di-n-butylphthalate	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Di-n-octylphthalate	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Dibenz(a,h)anthracene	UG/KG	370 U	32 NJ	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Dibenzofuran	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Diethyl phthalate	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Dimethylphthalate	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Fluoranthene	UG/KG	370 U	530	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Fluorene	UG/KG	370 U	30 J	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Hexachlorobenzene	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Hexachlorobutadiene	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Hexachlorocyclopentadiene	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-01-WW3	CL-59-01-WW4	CL-59-02-F01	CL-59-02-F02	CL-59-02-WE1	CL-59-02-WE2	CL-59-02-WN1	CL-59-02-WN2	CL-59-02-WS1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-01-WW3	CL-59-01-WW4	CL-59-02-F01	CL-59-02-F02	CL-59-02-WE1	CL-59-02-WE2	CL-59-02-WN1	CL-59-02-WN2	CL-59-02-WS1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Hexachloroethane	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Indeno(1,2,3-cd)pyrene	UG/KG	370 U	130 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Isophorone	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
N-Nitrosodiphenylamine	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
N-Nitrosodipropylamine	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Naphthalene	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Nitrobenzene	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Pentachlorophenol	UG/KG	920 U	920 U	930 U	940 U	960 U	890 U	1000 U	870 U	900 U
Phenanthrene	UG/KG	370 U	370	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Phenol	UG/KG	370 U	370 U	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Pyrene	UG/KG	370 U	500	370 U	380 U	380 U	360 U	400 U	350 U	360 U
Pyridine	UG/KG									
Total Unknown PAHs as SV	MG/KG									
Pesticides/PCBs										
4,4'-DDD	UG/KG	3.7 U	3.7 U	3.8 U	3.8 U	3.8 U	3.5 U	4 U	3.4 U	3.6 U
4,4'-DDE	UG/KG	3.7 U	16 NJ	3.8 U	3.8 U	3.8 U	3.5 U	4 U	3.4 U	3.6 U
4,4'-DDT	UG/KG	3.7 U	10 J	3.8 U	3.8 U	3.8 U	3.5 U	4 U	3.4 U	3.6 U
Aldrin	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.8 U	2 U	1.8 U	1.8 U
Alpha-BHC	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.8 U	2 U	1.8 U	1.8 U
Alpha-Chlordane	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.8 U	2 U	1.8 U	1.8 U
Beta-BHC	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.8 U	2 U	1.8 U	1.8 U
Delta-BHC	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.8 U	2 U	1.8 U	1.8 U
Dieldrin	UG/KG	3.7 U	3.7 U	3.8 U	3.8 U	3.8 U	3.5 U	4 U	3.4 U	3.6 U
Endosulfan I	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.8 U	2 U	1.8 U	1.8 U
Endosulfan II	UG/KG	3.7 U	3.7 U	3.8 U	3.8 U	3.8 U	3.5 U	4 U	3.4 U	3.6 U
Endosulfan sulfate	UG/KG	3.7 U	3.7 U	3.8 U	3.8 U	3.8 U	3.5 U	4 U	3.4 U	3.6 U
Endrin	UG/KG	3.7 U	3.8 NJ	3.8 U	3.8 U	3.8 U	3.5 U	4 U	3.4 U	3.6 U
Endrin aldehyde	UG/KG	3.7 U	3.7 U	3.8 U	3.8 U	3.8 U	3.5 U	4 U	3.4 U	3.6 U
Endrin ketone	UG/KG	3.7 U	3.7 U	3.8 U	3.8 U	3.8 U	3.5 U	4 U	3.4 U	3.6 U
Gamma-BHC/Lindane	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.8 U	2 U	1.8 U	1.8 U
Gamma-Chlordane	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2.2	1.8 U	2 U	1.8 U	1.8 U
Heptachlor	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.8 U	2 U	1.8 U	1.8 U
Heptachlor epoxide	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.8 U	2 U	1.8 U	1.8 U
Methoxychlor	UG/KG	19 U	19 U	19 U	19 U	20 U	18 U	20 U	18 U	18 U
Toxaphene	UG/KG	190 U	190 U	190 U	190 U	200 U	180 U	200 U	180 U	180 U
Aroclor-1016	UG/KG	37 U	38 U	38 U	38 U	38 U	35 U	40 U	35 U	36 U
Aroclor-1221	UG/KG	37 U	38 U	38 U	38 U	38 U	35 U	40 U	35 U	36 U
Aroclor-1232	UG/KG	37 U	38 U	38 U	38 U	38 U	35 U	40 U	35 U	36 U
Aroclor-1242	UG/KG	37 U	38 U	38 U	38 U	38 U	35 U	40 U	35 U	36 U
Aroclor-1248	UG/KG	37 U	38 U	38 U	38 U	38 U	35 U	40 U	35 U	36 U
Aroclor-1254	UG/KG	37 U	38 U	38 U	38 U	38 U	35 U	40 U	35 U	36 U
Aroclor-1260	UG/KG	37 U	38 U	38 U	38 U	38 U	35 U	40 U	35 U	36 U
Metals										

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	CL-59-01-WW3	CL-59-01-WW4	CL-59-02-F01	CL-59-02-F02	CL-59-02-WE1	CL-59-02-WE2	CL-59-02-WN1	CL-59-02-WN2	CL-59-02-WS1	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample ID	CL-59-01-WW3	CL-59-01-WW4	CL-59-02-F01	CL-59-02-F02	CL-59-02-WE1	CL-59-02-WE2	CL-59-02-WN1	CL-59-02-WN2	CL-59-02-WS1	
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	
	I	I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	10500 J	12900 J	9230 J	7630 J	8050 J	7810 J	12000 J	7040 J	7480 J
Antimony	MG/KG	1.4 J	2 J	1.5 J	1.1 J	1.2 J	1.3 J	2 J	0.99 J	0.83 J
Arsenic	MG/KG	6.5	6.4	6.4 J	5.7 J	4.5 J	3.6 J	5.4 J	4.7 J	5.5 J
Barium	MG/KG	113 J	117 J	57.6 J	45.3 J	56.7 J	55.6 J	149 J	42.3 J	36.8 J
Beryllium	MG/KG	0.54	0.69	0.5	0.39	0.44	0.36	0.72	0.37	0.39
Cadmium	MG/KG	0.21 J	0.38	0.22 J	0.29	0.13 J	0.24 J	0.39	0.21 J	0.17 J
Calcium	MG/KG	3230	29800	5020 J	31200 J	1980	77800 J	9570 J	37700 J	1880 J
Chromium	MG/KG	16.2 J	18 J	15.9 J	12.4 J	14 J	12.2 J	16.5 J	12.1 J	13.3 J
Cobalt	MG/KG	8.1	7.7	9 J	9.6 J	5.4 J	5.8 J	6.4 J	6.3 J	7.4 J
Copper	MG/KG	20.5 J	31.3 J	24.5 J	20.9 J	21.6 J	15.4 J	29.4 J	31.4 J	23.7 J
Cyanide	MG/KG									
Iron	MG/KG	23600 J	20900 J	21900 J	18400 J	16900 J	17100 J	20200 J	16900 J	19000 J
Lead	MG/KG	13.4 J	50.9 J	12 J	10.9 J	9.3 J	7.1 J	54.8 J	8.8 J	9.8 J
Magnesium	MG/KG	3790 J	7080 J	5020 J	13500 J	3220 J	11600 J	3610 J	11800 J	3420 J
Manganese	MG/KG	405 J	360 J	339 J	613 J	156 J	390 J	285 J	316 J	200 J
Mercury	MG/KG	0.13	0.24 J	0.03 J	0.06 J	0.07 J	0.39 J	0.51 J	0.05 J	0.04 J
Nickel	MG/KG	23.3 J	24.3 J	29.2 J	23.3 J	22.1 J	19.1 J	20.4 J	20.8 J	24.8 J
Potassium	MG/KG	955	1280	1000 J	863 J	666 J	942 J	978 J	725 J	653 J
Selenium	MG/KG	0.43 U	0.42 U	0.46 U	0.37 U	0.41 U	0.42 U	0.49 U	0.42 U	0.41 U
Silver	MG/KG	1.9	1.2	2.2 J	1.4 J	1.6 J	0.46 J	1.9 J	1.1 J	1.9 J
Sodium	MG/KG	50.3	73.6	97.5 J	175 J	402 J	156 J	48.3 J	93.8 J	66.6 J
Thallium	MG/KG	0.21 U	0.21 U	0.23 U	0.18 U	0.36 J	0.21 U	0.24 U	0.43 J	0.21 U
Vanadium	MG/KG	20.3 J	21.3 J	16.4 J	13.7 J	13.4 J	12.8 J	19.3 J	12.4 J	13.7 J
Zinc	MG/KG	68.6 J	84.5 J	90.1 J	76.6 J	63.8 J	36.9 J	77.3 J	58.4 J	76.2 J

Notes:

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected; the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-02-WS2	CL-59-02-WW1	CL-59-02-WW2	CL-59-03-F01	CL-59-03-F02	CL-59-03-F03	CL-59-03-WE1	CL-59-03-WN1	CL-59-03-WN2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-02-WS2	CL-59-02-WW1	CL-59-02-WW2	CL-59-03-F01	CL-59-03-F02	CL-59-03-F03	CL-59-03-WE1	CL-59-03-WN1	CL-59-03-WN2
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics										
1,1,1-Trichloroethane	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
1,1,2-Trichloroethane	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
1,1-Dichloroethane	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
1,1-Dichloroethene	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
1,2,3-Trichloropropane	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
1,2-Dibromo-3-chloropropane	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
1,2-Dibromoethane	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
1,2-Dichlorobenzene	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
1,2-Dichloroethane	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
1,2-Dichloropropane	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
1,3-Dichlorobenzene	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
1,3-Dichloropropane	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
1,4-Dichlorobenzene	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
Acetone	UG/KG	5 U	13 U	5 U	24 U	25 U	23 U	5 U	5 U	5 U
Benzene	UG/KG	5 U	1 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
Bromodichloromethane	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
Bromoform	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
Carbon disulfide	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
Carbon tetrachloride	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
Chlorobenzene	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
Chlorodibromomethane	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
Chloroethane	UG/KG	5 U	5 U	5 U	12 U	13 U	11 U	5 U	5 U	5 U
Chloroform	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
Cis-1,2-Dichloroethene	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
Cis-1,3-Dichloropropene	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
Cyclohexane	UG/KG	5 U	3 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-02-WSZ	CL-59-02-WW1	CL-59-02-WW2	CL-59-03-F01	CL-59-03-F02	CL-59-03-F03	CL-59-03-WE1	CL-59-03-WN1	CL-59-03-WN2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-02-WSZ	CL-59-02-WW1	CL-59-02-WW2	CL-59-03-F01	CL-59-03-F02	CL-59-03-F03	CL-59-03-WE1	CL-59-03-WN1	CL-59-03-WN2
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dichlorodifluoromethane	UG/KG	5 U	5 U	5 U				5 U	5 U	5 U
Ethyl benzene	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
Isopropylbenzene	UG/KG	5 U	5 U	5 U				5 U	5 U	5 U
Meta/Para Xylene	UG/KG				6 U	6.3 U	5.7 U			
Methyl Acetate	UG/KG	5 U	5 U	5 U				5 U	5 U	5 U
Methyl Tertiary Ether	UG/KG	5 U	5 U	5 U				5 U	5 U	5 U
Methyl bromide	UG/KG	5 U	5 U	5 U				5 U	5 U	5 U
Methyl butyl ketone	UG/KG	5 U	5 U	5 U				5 U	5 U	5 U
Methyl chloride	UG/KG	5 U	5 U	5 U				5 U	5 U	5 U
Methyl cyclohexane	UG/KG	5 U	5 U	5 U				5 U	5 U	5 U
Methyl ethyl ketone	UG/KG	5 U	2 J	5 U	12 U	13 U	11 U	5 U	5 U	5 U
Methyl isobutyl ketone	UG/KG	5 U	5 U	5 U	12 U	13 U	11 U	5 U	5 U	5 U
Methylene chloride	UG/KG	1 J	5 U	5 U	6 U	6.3 U	1.1 J	1 J	1 J	2 J
Ortho Xylene	UG/KG				6 U	6.3 U	5.7 U			
Styrene	UG/KG	5 U	5 U	5 U				5 U	5 U	5 U
Tetrachloroethene	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
Toluene	UG/KG	5 U	3 J	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
Total BTEX	MG/KG									
Total Xylenes	UG/KG	5 U	3 J	5 U				5 U	5 U	5 U
Trans-1,2-Dichloroethene	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	UG/KG	5 U	5 U	5 U				5 U	5 U	5 U
Trichloroethene	UG/KG	5 U	5 U	5 U	6 U	6.3 U	5.7 U	5 U	5 U	5 U
Trichlorofluoromethane	UG/KG	5 U	5 U	5 U				5 U	5 U	5 U
Vinyl chloride	UG/KG	5 U	5 U	5 U	12 U	13 U	11 U	5 U	5 U	5 U
Semivolatile Organics										
1,1'-Biphenyl	UG/KG	370 U	360 U	390 U				370 U	360 U	350 U
1,2,4-Trichlorobenzene	UG/KG									
1,2-Dichlorobenzene	UG/KG									
1,3-Dichlorobenzene	UG/KG									
1,4-Dichlorobenzene	UG/KG									
2,2'-oxybis(1-Chloropropane)	UG/KG	370 U	360 U	390 U				370 U	360 U	350 U
2,4,5-Trichlorophenol	UG/KG	920 U	900 U	990 U	400 U	420 U	380 U	930 U	910 U	870 U
2,4,6-Trichlorophenol	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
2,4-Dichlorophenol	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
2,4-Dimethylphenol	UG/KG	370 U	360 U	390 U				370 U	360 U	350 U
2,4-Dinitrophenol	UG/KG	920 U	900 U	990 U	2100 U	2100 U	1900 U	930 U	910 U	870 U
2,4-Dinitrotoluene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
2,6-Dinitrotoluene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
2-Chloronaphthalene	UG/KG	370 U	360 U	390 U				370 U	360 U	350 U
2-Chlorophenol	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
2-Methylnaphthalene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
2-Methylphenol	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
2-Nitroaniline	UG/KG	920 U	900 U	990 U	2100 U	2100 U	1900 U	930 U	910 U	870 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-02-WS2	CL-59-02-WW1	CL-59-02-WW2	CL-59-03-F01	CL-59-03-F02	CL-59-03-F03	CL-59-03-WE1	CL-59-03-WN1	CL-59-03-WN2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-02-WS2	CL-59-02-WW1	CL-59-02-WW2	CL-59-03-F01	CL-59-03-F02	CL-59-03-F03	CL-59-03-WE1	CL-59-03-WN1	CL-59-03-WN2
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
2-Nitrophenol	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
3,3'-Dichlorobenzidine	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
3-Nitroaniline	UG/KG	920 U	900 U	990 U	2100 U	2100 U	1900 U	930 U	910 U	870 U
4,6-Dinitro-2-methylphenol	UG/KG	920 U	900 U	990 U				930 U	910 U	870 U
4-Bromophenyl phenyl ether	UG/KG	370 U	360 U	390 U				370 U	360 U	350 U
4-Chloro-3-methylphenol	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
4-Chloroaniline	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
4-Chlorophenyl phenyl ether	UG/KG	370 U	360 U	390 U				370 U	360 U	350 U
4-Methylphenol	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
4-Nitroaniline	UG/KG	920 U	900 U	990 U				930 U	910 U	870 U
4-Nitrophenol	UG/KG	920 U	900 U	990 U	2100 U	2100 U	1900 U	930 U	910 U	870 U
Acenaphthene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Acenaphthylene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Acetophenone	UG/KG	370 U	360 U	390 U				370 U	360 U	350 U
Aniline	UG/KG				400 U	420 U	380 U			
Anthracene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Atrazine	UG/KG	370 U	360 U	390 U				370 U	360 U	350 U
Benzaldehyde	UG/KG	370 U	360 U	390 U				370 U	360 U	350 U
Benzo(a)anthracene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Benzo(a)pyrene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Benzo(b)fluoranthene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Benzo(g)hperylene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Benzo(k)fluoranthene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Benzoic Acid	UG/KG				2100 U	2100 U	1900 U			
Bis(2-Chloromethoxy)methane	UG/KG	370 U	360 U	390 U				370 U	360 U	350 U
Bis(2-Chloroethyl)ether	UG/KG	370 U	360 U	390 U				370 U	360 U	350 U
Bis(2-Chloroisopropyl)ether	UG/KG									
Bis(2-Ethylhexyl)phthalate	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Butylbenzylphthalate	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Caprolactam	UG/KG	370 U	360 U	390 U				370 U	360 U	350 U
Carbazole	UG/KG	370 U	360 U	390 U				370 U	360 U	350 U
Chrysene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Di-n-butylphthalate	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Di-n-octylphthalate	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Dibenz(a,h)anthracene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Dihydrofuran	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Diglycidyl phthalate	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Dimethyl phthalate	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Fluoranthene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Fluorene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Hexachlorobenzene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Hexachlorobutadiene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	350 U
Hexachlorocyclopentadiene	UG/KG	370 U	360 U	390 U				370 U	360 U	350 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-02-WS2	CL-59-02-WW1	CL-59-02-WW2	CL-59-03-F01	CL-59-03-F02	CL-59-03-F03	CL-59-03-WE1	CL-59-03-WN1	CL-59-03-WN2	
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sample ID	CL-59-02-WS2	CL-59-02-WW1	CL-59-02-WW2	CL-59-03-F01	CL-59-03-F02	CL-59-03-F03	CL-59-03-WE1	CL-59-03-WN1	CL-59-03-WN2	
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	
		1	1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Hexachloroethane	UG/KG	370 U	360 U	390 U	400 U	390 U	420 U	380 U	370 U	360 U	350 U
Indeno(1,2,3-cd)pyrene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	360 U	350 U
Isophorone	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	360 U	350 U
N-Nitrosodiphenylamine	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	360 U	350 U
N-Nitrosodipropylamine	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	360 U	350 U
Naphthalene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	360 U	350 U
Nitrobenzene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	360 U	350 U
Pentachlorophenol	UG/KG	920 U	900 U	990 U	2100 U	2100 U	1900 U	930 U	910 U	910 U	870 U
Phenanthrene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	360 U	350 U
Phenol	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	360 U	350 U
Pyrene	UG/KG	370 U	360 U	390 U	400 U	420 U	380 U	370 U	360 U	360 U	350 U
Pyridine	UG/KG				2100 U	2100 U	1900 U				
Total Unknown PAHs as SV	MG/KG										
Pesticides/PCBs											
4,4'-DDD	UG/KG	3.6 U	3.5 U	3.9 U	20 U	21 U	19 U	3.6 U	3.7 U	3.7 U	3.4 U
4,4'-DDE	UG/KG	3.6 U	3.5 U	3.9 U	20 U	21 U	19 U	3.6 U	3.7 U	3.7 U	3.4 U
4,4'-DDT	UG/KG	3.6 U	3.5 U	3.9 U	20 U	21 U	19 U	3.6 U	3.7 U	3.7 U	3.4 U
Aldrin	UG/KG	1.9 U	1.8 U	2 U	10 U	11 U	9.7 U	1.9 U	1.9 U	1.9 U	1.8 U
Alpha-BHC	UG/KG	1.9 U	1.8 U	2 U	10 U	11 U	9.7 U	1.9 U	1.9 U	1.9 U	1.8 U
Alpha-Chlordane	UG/KG	1.9 U	1.8 U	2 U	10 U	11 U	9.7 U	1.9 U	1.9 U	1.9 U	1.8 U
Beta-BHC	UG/KG	1.9 U	1.8 U	2 U	10 U	11 U	9.7 U	1.9 U	1.9 U	1.9 U	1.8 U
Delta-BHC	UG/KG	1.9 U	1.8 U	2 U	10 U	11 U	9.7 U	1.9 U	1.9 U	1.9 U	1.8 U
Dieldrin	UG/KG	3.6 U	3.5 U	3.9 U	20 U	21 U	19 U	3.6 U	3.7 U	3.7 U	3.4 U
Endosulfan I	UG/KG	1.9 U	1.8 U	2 U	10 U	11 U	9.7 U	1.9 U	1.9 U	1.9 U	1.8 U
Endosulfan II	UG/KG	3.6 U	3.5 U	3.9 U	20 U	21 U	19 U	3.6 U	3.7 U	3.7 U	3.4 U
Endosulfan sulfate	UG/KG	3.6 U	3.5 U	3.9 U	20 U	21 U	19 U	3.6 U	3.7 U	3.7 U	3.4 U
Endrin	UG/KG	3.6 U	3.5 U	3.9 U	20 U	21 U	19 U	3.6 U	3.7 U	3.7 U	3.4 U
Endrin aldehyde	UG/KG	3.6 U	3.5 U	3.9 U	20 U	21 U	19 U	3.6 U	3.7 U	3.7 U	3.4 U
Endrin ketone	UG/KG	3.6 U	3.5 U	3.9 U	20 U	21 U	19 U	3.6 U	3.7 U	3.7 U	3.4 U
Gamma-BHC/Lindane	UG/KG	1.9 U	1.8 U	2 U	10 U	11 U	9.7 U	1.9 U	1.9 U	1.9 U	1.8 U
Gamma-Chlordane	UG/KG	1.9 U	1.8 U	2 U	10 U	11 U	9.7 U	1.9 U	1.9 U	1.9 U	1.8 U
Heptachlor	UG/KG	1.9 U	1.8 U	2 U	10 U	11 U	9.7 U	1.9 U	1.9 U	1.9 U	1.8 U
Heptachlor epoxide	UG/KG	1.9 U	1.8 U	2 U	10 U	11 U	9.7 U	1.9 U	1.9 U	1.9 U	1.8 U
Methoxychlor	UG/KG	19 U	18 U	20 U	100 U	110 U	97 U	19 U	19 U	19 U	18 U
Toxaphene	UG/KG	190 U	180 U	200 U	200 U	210 U	190 U	190 U	190 U	190 U	180 U
Aroclor-1016	UG/KG	37 U	36 U	40 U	40 U	42 U	38 U	37 U	37 U	37 U	35 U
Aroclor-1221	UG/KG	37 U	36 U	40 U	40 U	42 U	38 U	37 U	37 U	37 U	35 U
Aroclor-1232	UG/KG	37 U	36 U	40 U	40 U	42 U	38 U	37 U	37 U	37 U	35 U
Aroclor-1242	UG/KG	37 U	36 U	40 U	40 U	42 U	38 U	37 U	37 U	37 U	35 U
Aroclor-1248	UG/KG	37 U	36 U	40 U	40 U	42 U	38 U	37 U	37 U	37 U	35 U
Aroclor-1254	UG/KG	37 U	36 U	40 U	40 U	42 U	38 U	37 U	37 U	37 U	35 U
Aroclor-1260	UG/KG	37 U	36 U	40 U	40 U	42 U	38 U	37 U	37 U	37 U	35 U
Metals											

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	
	Location ID	CL-59-02-WS2	CL-59-02-WW1	CL-59-02-WW2	CL-59-03-F01	CL-59-03-F02	CL-59-03-F03	CL-59-03-F03	CL-59-03-WE1	CL-59-03-WN1	CL-59-03-WN2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-02-WS2	CL-59-02-WW1	CL-59-02-WW2	CL-59-03-F01	CL-59-03-F02	CL-59-03-F03	CL-59-03-F03	CL-59-03-WE1	CL-59-03-WN1	CL-59-03-WN2
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	9600 J	9140 J	12600 J	8160	10600	9260	14500 J	13500 J	8550 J	
Antimony	MG/KG	0.94 J	1.2 J	1.5 J	3.4 UJ	3.6 UJ	3.2 UJ	1.2 J	1.2 J	1.4 J	
Arsenic	MG/KG	4.7 J	4.8 J	7.7 J	4.8	5.6	4.8	6.5 J	7.5 J	5.9 J	
Barium	MG/KG	68.5 J	88.8 J	129 J	51.1	72.3	77.9	128 J	125 J	47.1 J	
Beryllium	MG/KG	0.46	0.48	0.68	0.12	0.26	0.19	0.74	0.76	0.4	
Cadmium	MG/KG	0.23 J	0.33	0.33	0.29 U	0.3 U	0.27 U	0.23 J	0.24 J	0.22 J	
Calcium	MG/KG	52000 J	77100 J	3780 J	13200	13000	71900	3130 J	3130 J	23920	
Chromium	MG/KG	14.7 J	13.8 J	19 J	14.3	19.1	14.9	21.9 J	20.5 J	13.7 J	
Cobalt	MG/KG	6.7 J	6.8 J	13.3 J	7.8	12.2	8.4	7.8 J	8.2 J	11.1 J	
Copper	MG/KG	21.4 J	18 J	22 J	22.6	22.9	19.5	16.9 J	18.4 J	15.7 J	
Cyanide	MG/KG										
Iron	MG/KG	18800 J	20200 J	26200 J	19600	24400	19800	25700 J	26400 J	8850 J	
Lead	MG/KG	7.9 J	11.3 J	14.7 J	11.6 J	14.2 J	14.5 J	11.8 J	13.2 J	9.7 J	
Magnesium	MG/KG	9750 J	8110 J	4600 J	4430	6220	15100	4560 J	4120 J	8870 J	
Manganese	MG/KG	324 J	208 J	780 J	281	462	193 J	249 J	476 J	476 J	
Mercury	MG/KG	0.05 J	0.14 J	0.09 J	0.03 J	0.04	0.03 J	0.08 J	0.43 J	0.06 J	
Nickel	MG/KG	22.9 J	20.5 J	32.3 J	25.9	32	24.9	28.2 J	27.8 J	27 J	
Potassium	MG/KG	968 J	661 J	979 J	971	980	888	994 J	922 J	699 J	
Selenium	MG/KG	0.43 U	0.41 U	0.47 U	0.57 U	0.6 U	0.54 U	0.45 U	0.45 U	0.38 U	
Silver	MG/KG	1.1 J	0.54 J	2.6 J	0.57 U	0.6 U	0.54 U	2.4 J	2.5 J	1.1 J	
Sodium	MG/KG	152 J	97.1 J	43.6 J	103	98.4	241	36.3 J	33.3 J	107 J	
Thallium	MG/KG	0.21 U	0.2 U	0.23 U	0.57 U	0.6 U	0.54 U	0.7 J	0.64 J	0.19 U	
Vanadium	MG/KG	15.6 J	14.5 J	21.9 J	14.9	17	15.7	22.5 J	22.8 J	12.1 J	
Zinc	MG/KG	57.9 J	43.5 J	60.9 J	85 J	120 J	64.4 J	78.3 J	73.8 J	83.5 J	

Notes:

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample/Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected, the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-03-WN3	CL-59-03-WS1	CL-59-03-WS2	CL-59-03-WS3	CL-59-03-WW1	CL-59-04-F04	CL-59-04-F01	CL-59-04-WE1	CL-59-04-WN1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-03-WN3	CL-59-03-WS1	CL-59-03-WS2	CL-59-03-WS3	CL-59-03-WW1	CL-59-04-F04	CL-59-04-F01	CL-59-04-WE1	CL-59-04-WN1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics										
1,1,1-Trichloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
1,1,2,2-Tetrachloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
1,1,2-Trichloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
1,1-Dichloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
1,1-Dichloroethene	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
1,2,3-Trichloropropane	UG/KG									
1,2,4-Trichlorobenzene	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
1,2-Dibromo-3-chloropropane	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
1,2-Dibromoethane	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
1,2-Dichlorobenzene	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
1,2-Dichloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
1,2-Dichloroethene (total)	UG/KG									
1,2-Dichloropropane	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
1,3-Dichlorobenzene	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
1,3-Dichloropropane	UG/KG									
1,4-Dichlorobenzene	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Acetone	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Benzene	UG/KG	5 U	5 U	5 U	5 U	5 U	1 J	5 U	6 U	5 U
Bromodichloromethane	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Bromoform	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Carbon disulfide	UG/KG	5 U	5 U	5 U	5 U	5 U	1 J	5 U	6 U	5 U
Carbon tetrachloride	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Chlorobenzene	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Chlorodibromomethane	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Chloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Chloroform	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Cis-1,2-Dichloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Cis-1,3-Dichloropropene	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Cyclohexane	UG/KG	5 U	5 U	5 U	5 U	5 U	3 J	5 U	2 J	5 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility Location ID	SEAD-59 CL-59-03-WN3	SEAD-59 CL-59-03-WS1	SEAD-59 CL-59-03-WS2	SEAD-59 CL-59-03-WS3	SEAD-59 CL-59-03-WW1	SEAD-59 CL-59-04-F04	SEAD-59 CL-59-04-F01	SEAD-59 CL-59-04-WE1	SEAD-59 CL-59-04-WN1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-03-WN3	CL-59-03-WS1	CL-59-03-WS2	CL-59-03-WS3	CL-59-03-WW1	CL-59-04-F04	CL-59-04-F01	CL-59-04-WE1	CL-59-04-WN1
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
	1	1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dichlorodifluoromethane	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Ethyl benzene	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Isopropylbenzene	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Meta/Para Xylene	UG/KG									
Methyl Acetate	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Methyl Tertbutyl Ether	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Methyl bromide	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Methyl butyl ketone	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Methyl chloride	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Methyl cyclohexane	UG/KG	5 U	5 U	5 U	5 U	5 U	4 J	5 U	3 J	5 U
Methyl ethyl ketone	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Methyl isobutyl ketone	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Methylene chloride	UG/KG	2 J	2 J	2 J	2 J	1 J	6 U	9 U	6 U	6 U
Ortho Xylene	UG/KG									
Styrene	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Tetrachloroethene	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Toluene	UG/KG	5 U	5 U	5 U	5 U	5 U	3 J	1 J	2 J	5 U
Total BTEX	MG/KG									
Total Nylenes	UG/KG	5 U	5 U	5 U	5 U	5 U	2 J	5 U	2 J	5 U
Trans-1,2-Dichloroethene	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Trans-1,3-Dichloropropene	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Trichloroethene	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Trichlorofluoromethane	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Vinyl chloride	UG/KG	5 U	5 U	5 U	5 U	5 U	6 U	5 U	6 U	5 U
Semivolatile Organics										
1,1'-Biphenyl	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
1,2,4-Trichlorobenzene	UG/KG									
1,2-Dichlorobenzene	UG/KG									
1,3-Dichlorobenzene	UG/KG									
1,4-Dichlorobenzene	UG/KG									
2,2'-oxybis(1-Chloropropane)	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
2,4,5-Trichlorophenol	UG/KG	920 U	910 U	880 U	870 U	1000 U	950 U	910 U	980 U	970 U
2,4,6-Trichlorophenol	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
2,4-Dichlorophenol	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
2,4-Dimethylphenol	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
2,4-Dinitrophenol	UG/KG	920 U	910 U	880 U	870 U	1000 U	950 U	910 U	980 U	970 U
2,4-Dinitrotoluene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
2,6-Dinitrotoluene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
2-Chloronaphthalene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
2-Chlorophenol	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
2-Methylnaphthalene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
2-Methylphenol	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
2-Nitroaniline	UG/KG	920 U	910 U	880 U	870 U	1000 U	950 U	910 U	980 U	970 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-03-WN3	CL-59-03-WS1	CL-59-03-WS2	CL-59-03-WS3	CL-59-03-WW1	CL-59-04-F04	CL-59-04-F01	CL-59-04-WE1	CL-59-04-WN1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-03-WN3	CL-59-03-WS1	CL-59-03-WS2	CL-59-03-WS3	CL-59-03-WW1	CL-59-04-F04	CL-59-04-F01	CL-59-04-WE1	CL-59-04-WN1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
2-Nitrophenol	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
3,3'-Dichlorobenzidine	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
3-Nitroaniline	UG/KG	920 U	910 U	880 U	870 U	1000 U	950 U	910 U	980 U	970 U
4,6-Dinitro-2-methylphenol	UG/KG	920 U	910 U	880 U	870 U	1000 U	950 U	910 U	980 U	970 U
4-Bromophenyl phenyl ether	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
4-Chloro-3-methylphenol	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
4-Chloroaniline	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
4-Chlorophenyl phenyl ether	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
4-Methylphenol	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
4-Nitroaniline	UG/KG	920 U	910 U	880 U	870 U	1000 U	950 U	910 U	980 U	970 U
4-Nitrophenol	UG/KG	920 U	910 U	880 U	870 U	1000 U	950 U	910 U	980 U	970 U
Acenaphthene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Acenaphthylene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Acetophenone	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Aniline	UG/KG									
Anthracene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Atrazine	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Benzaldehyde	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Benzo(a)anthracene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Benzo(a)pyrene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Benzo(b)fluoranthene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Benzo(g)hperylene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Benzo(k)fluoranthene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Benzoic Acid	UG/KG									
Bis(2-Chloroethoxy)methane	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Bis(2-Chloroethyl)ether	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Bis(2-Chloroisopropyl)ether	UG/KG									
Bis(2-Ethylhexyl)phthalate	UG/KG	370 U	360 U	350 U	350 U	400 U	50 NJ	360 U	48 NJ	390 U
Butylbenzylphthalate	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Caprolactam	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Carbazole	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Chrysene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Di-n-butylphthalate	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Di-n-octylphthalate	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Dibenz(a,h)anthracene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Dibenzofuran	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Diethyl phthalate	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Dimethylphthalate	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Fluoranthene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	37 J	390 U	390 U
Fluorene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Hexachlorobenzene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Hexachlorobutadiene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Hexachlorocyclopentadiene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-03-WN3	CL-59-03-WS1	CL-59-03-WS2	CL-59-03-WS3	CL-59-03-WW1	CL-59-04-F04	CL-59-04-F01	CL-59-04-WE1	CL-59-04-WN1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-03-WN3	CL-59-03-WS1	CL-59-03-WS2	CL-59-03-WS3	CL-59-03-WW1	CL-59-04-F04	CL-59-04-F01	CL-59-04-WE1	CL-59-04-WN1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Hexachloroethane	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Indeno(1,2,3-cd)pyrene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Isophorone	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
N-Nitrosodiphenylamine	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
N-Nitrosodipropylamine	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Naphthalene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Nitrobenzene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Pentachlorophenol	UG/KG	920 U	910 U	880 U	870 U	1000 U	950 U	910 U	980 U	970 U
Phenanthrene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Phenol	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Pyrene	UG/KG	370 U	360 U	350 U	350 U	400 U	380 U	360 U	390 U	390 U
Pyridine	UG/KG							43 J	390 U	390 U
Total Unknown PAHs as SV	MG/KG									
Pesticides/PCBs										
4,4'-DDD	UG/KG	3.6 U	3.6 U	3.5 U	3.5 U	4 U	3.8 U	3.6 U	3.9 U	3.9 U
4,4'-DDE	UG/KG	3.6 U	3.6 U	7.6 J	3.5 U	4 U	3.8 U	3.6 U	3.9 U	3.9 U
4,4'-DDT	UG/KG	3.6 U	3.6 U	7.5	3.5 U	5.8	3.8 U	3.6 U	3.9 U	3.9 U
Aldrin	UG/KG	1.9 U	1.9 U	1.8 U	1.8 U	2.1 U	2 U	1.9 U	2 U	2 U
Alpha-BHC	UG/KG	1.9 U	1.9 U	1.8 U	1.8 U	2.1 U	2 U	1.9 U	2 U	2 U
Alpha-Chlordane	UG/KG	1.9 U	1.9 U	1.8 U	1.8 U	2.1 U	2 U	1.9 U	2 U	2 U
Beta-BHC	UG/KG	1.9 U	1.9 U	1.8 U	1.8 U	2.1 U	2 U	1.9 U	2 U	2 U
Delta-BHC	UG/KG	1.9 U	1.9 U	1.8 U	1.8 U	2.1 U	2 U	1.9 U	2 U	2 U
Dieldrin	UG/KG	3.6 U	3.6 U	3.5 U	3.5 U	4 U	3.8 U	3.6 U	3.9 U	3.9 U
Endosulfan I	UG/KG	1.9 U	1.9 U	1.8 U	1.8 U	2.1 U	2 U	1.9 U	2 U	2 U
Endosulfan II	UG/KG	3.6 U	3.6 U	3.5 U	3.5 U	4 U	3.8 U	3.6 U	3.9 U	3.9 U
Endosulfan sulfate	UG/KG	3.6 U	3.6 U	3.5 U	3.5 U	4 U	3.8 U	3.6 U	3.9 U	3.9 U
Endrin	UG/KG	3.6 U	3.6 U	3.5 U	3.5 U	4 U	3.8 U	16 NJ	3.9 U	3.9 U
Endrin aldehyde	UG/KG	3.6 U	3.6 U	3.5 U	3.5 U	4 U	3.8 U	3.6 U	3.9 U	3.9 U
Endrin ketone	UG/KG	3.6 U	3.6 U	3.5 U	3.5 U	4 U	3.8 U	3.6 U	3.9 U	3.9 U
Gamma-BHC/Lindane	UG/KG	1.9 U	1.9 U	1.8 U	1.8 U	2.1 U	2 U	1.9 U	2 U	2 U
Gamma-Chlordane	UG/KG	1.9 U	1.9 U	1.8 U	1.8 U	2.1 U	2 U	1.9 U	2 U	2 U
Heptachlor	UG/KG	1.9 U	1.9 U	1.8 U	1.8 U	2.1 U	2 U	1.9 U	2 U	2 U
Heptachlor epoxide	UG/KG	1.9 U	1.9 U	1.8 U	1.8 U	2.1 U	2 U	1.9 U	2 U	2 U
Methoxychlor	UG/KG	1.9 U	1.9 U	1.8 U	1.8 U	2.1 U	2 U	1.9 U	2 U	2 U
Toxaphene	UG/KG	190 UJ	190 UJ	180 UJ	180 UJ	210 UJ	200 U	190 U	200 U	200 U
Aroclor-1016	UG/KG	37 U	36 U	35 U	35 U	41 U	39 U	37 U	40 U	39 U
Aroclor-1221	UG/KG	37 U	36 U	35 U	35 U	41 U	39 U	37 U	40 U	39 U
Aroclor-1232	UG/KG	37 U	36 U	35 U	35 U	41 U	39 U	37 U	40 U	39 U
Aroclor-1242	UG/KG	37 U	36 U	35 U	35 U	41 U	39 U	37 U	40 U	39 U
Aroclor-1248	UG/KG	37 U	36 U	35 U	35 U	41 U	39 U	37 U	40 U	39 U
Aroclor-1254	UG/KG	37 U	36 U	35 U	35 U	41 U	39 U	37 U	40 U	39 U
Aroclor-1260	UG/KG	37 U	36 U	35 U	35 U	41 U	39 U	37 U	40 U	39 U
Metals										

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-03-WN3	CL-59-03-WS1	CL-59-03-WS2	CL-59-03-WS3	CL-59-03-WW1	CL-59-04-F04	CL-59-04-F01	CL-59-04-WE1	CL-59-04-WN1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-03-WN3	CL-59-03-WS1	CL-59-03-WS2	CL-59-03-WS3	CL-59-03-WW1	CL-59-04-F04	CL-59-04-F01	CL-59-04-WE1	CL-59-04-WN1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	4960 J	5420 J	5280 J	15800 J	12500 J	4870	12000 J	9390	7880 J
Antimony	MG/KG	0.9 J	0.68 J	0.73 J	0.14 UJ	1.4 J	0.7 J	1.9 J	1.3 J	1.1 J
Arsenic	MG/KG	4.2 J	3.6 J	2.8 J	3.6 J	5.3 J	3.5	8 J	3.2	4.6 J
Barium	MG/KG	29.4 J	51.7 J	34.8 J	52.9 J	169 J	26.2	78.6 J	78.2	66.6 J
Beryllium	MG/KG	0.26 J	0.26	0.25 J	0.09 U	0.67	0.26	0.57	0.42	0.39
Cadmium	MG/KG	0.16 J	0.17 J	0.22 J	0.24 J	0.23 J	0.15 J	0.29 J	0.22	0.22 J
Calcium	MG/KG	74900 J	82700 J	90200 J	15000 J	11900 J	64000	2940 J	78000	36700 J
Chromium	MG/KG	8.5 J	8.2 J	8.3 J	20.2 J	19.8 J	8.2	20 J	13.1	11.5 J
Cobalt	MG/KG	6.3 J	4.6 J	4.3 J	18.6 J	7.3 J	5.4 J	14.8 J	5.9 J	7.5 J
Copper	MG/KG	15.6 J	13.4 J	10.1 J	10 J	19.6 J	19.5	23.6 J	20.1	18.1 J
Cyanide	MG/KG									
Iron	MG/KG	14600 J	12900 J	12200 J	18500 J	23200 J	13800 J	29600 J	17800 J	14700 J
Lead	MG/KG	6.1 J	5.8 J	4.6 J	7.1 J	13.9 J	5.6 J	9.3 J	7.1 J	8.5 J
Magnesium	MG/KG	11300 J	15500 J	10600 J	25300 J	5360 J	14700 J	5320 J	18700 J	9600 J
Manganese	MG/KG	365 J	380 J	265 J	296 J	185 J	286 J	782 J	322 J	399 J
Mercury	MG/KG	0.13 J	0.11 J	0.04 J	0.02 J	0.24 J	0.02 U	0.02 J	0.02 U	0.04 J
Nickel	MG/KG	17.6 J	15.4 J	14 J	29.8 J	27.8 J	13.7 J	36.1 J	17.4 J	21.2 J
Potassium	MG/KG	595 J	631 J	539 J	972 J	857 J	654	736 J	1830	787 J
Selenium	MG/KG	0.43 U	0.39 U	0.39 U	0.36 U	0.43 U	0.42 U	0.42 U	0.4 U	0.43 U
Silver	MG/KG	0.37 J	0.1 U	0.1 U	1.3 J	2.1 J	0.11 U	1.6	0.1 U	0.61 J
Sodium	MG/KG	107 J	140 J	121 J	3410 J	2070 J	137	82 J	190	73.6 J
Thallium	MG/KG	0.22 U	0.19 U	0.2 U	1.8 J	0.55 J	0.21 U	0.21 U	0.2 U	0.21 U
Vanadium	MG/KG	9.2 J	9.5 J	8.4 J	28.5 J	20.1 J	9.5	16.1 J	17.2	13.5 J
Zinc	MG/KG	43.4 J	33.9 J	67.7 J	25.3 J	64.1 J	34.6 J	75.2 J	36.8 J	40.3 J

Note(s):

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected; the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-04-WN2	CL-59-04-WS1	CL-59-04-WS2	CL-59-04-WW1	CL-59-OTHERA-F01	CL-59-OTHERA-WE1	CL-59-OTHERA-WN1	CL-59-OTHERA-WS1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-04-WN2	CL-59-04-WS1	CL-59-04-WS2	CL-59-04-WW1	CL-59-OTHERA-F01	CL-59-OTHERA-WE1	CL-59-OTHERA-WN1	CL-59-OTHERA-WS1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics									
1,1,1-Trichloroethane	UG/KG	4 U	5.5 U	6 U	5 U	5 U	5 U	6 U	5 U
1,1,2,2-Tetrachloroethane	UG/KG	4 U	5.5 U	6 U	5 U	5 U	5 U	6 U	5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	4 U	5.5 U	6 U	5 U	5 U	5 U	6 U	5 U
1,1,2-Trichloroethane	UG/KG	4 U	5.5 U	6 U	5 U	5 U	5 U	6 U	5 U
1,1-Dichloroethane	UG/KG	4 U	5.5 U	6 U	5 U	5 U	5 U	6 U	5 U
1,1-Dichloroethene	UG/KG	4 U	5.5 U	6 U	5 U	5 U	5 U	6 U	5 U
1,2,3-Trichloropropane	UG/KG		5.5 U						
1,2,4-Trichlorobenzene	UG/KG	4 U	5.5 U	6 U	5 U	5 U	5 U	6 U	5 U
1,2-Dibromo-3-chloropropane	UG/KG	4 U		6 U	5 U	5 U	5 U	6 U	5 U
1,2-Dibromoethane	UG/KG	4 U		6 U	5 U	5 U	5 U	6 U	5 U
1,2-Dichlorobenzene	UG/KG	4 U	5.5 U	6 U	5 U	5 U	5 U	6 U	5 U
1,2-Dichloroethane	UG/KG	4 U	5.5 U	6 U	5 U	5 U	5 U	6 U	5 U
1,2-Dichloroethene (total)	UG/KG								
1,2-Dichloropropane	UG/KG	4 U		6 U	5 U	5 U	5 U	6 U	5 U
1,3-Dichlorobenzene	UG/KG	4 U	5.5 U	6 U	5 U	5 U	5 U	6 U	5 U
1,3-Dichloropropane	UG/KG		5.5 U						
1,4-Dichlorobenzene	UG/KG	4 U	5.5 U	6 U	5 U	5 U	5 U	6 U	5 U
Acetone	UG/KG	4 U	22 U	11 NJ	14 NJ	5 U	10 U	23 U	5 U
Benzene	UG/KG	4 U	5.5 U	6 U	5 U	1 J	5 U	6 U	5 U
Bromodichloromethane	UG/KG	4 U		6 U	5 U	5 U	5 U	6 U	5 U
Bromoform	UG/KG	4 U		6 U	5 U	5 U	5 U	6 U	5 U
Carbon disulfide	UG/KG	4 U	5.5 U	1 J	5 U	5 U	5 U	6 U	5 U
Carbon tetrachloride	UG/KG	4 U	5.5 U	6 U	5 U	5 U	5 U	6 U	5 U
Chlorobenzene	UG/KG	4 U	5.5 U	6 U	5 U	5 U	5 U	6 U	5 U
Chlorodibromomethane	UG/KG	4 U	5.5 U	6 U	5 U	5 U	5 U	6 U	5 U
Chloroethane	UG/KG	4 U	11 U	6 U	5 U	5 U	5 U	6 U	5 U
Chloroform	UG/KG	4 U	5.5 U	6 U	5 U	5 U	5 U	6 U	5 U
Cis-1,2-Dichloroethene	UG/KG	4 U		6 U	5 U	5 U	5 U	6 U	5 U
Cis-1,3-Dichloropropene	UG/KG	4 U		6 U	5 U	5 U	5 U	6 U	5 U
Cyclohexane	UG/KG	4 U		6 U	5 U	3 J	5 U	6 U	5 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Parameter	Units	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
		CL-59-04-WN2	CL-59-04-WS1	CL-59-04-WS2	CL-59-04-WW1	CL-59-04-WS2	CL-59-04-WW1	CL-59-04-WS2	CL-59-04-WW1
Location ID	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	Sample ID	CL-59-04-WN2	CL-59-04-WS1	CL-59-04-WS2	CL-59-04-WW1	CL-59-04-WS2	CL-59-04-WW1	CL-59-04-WS2	CL-59-04-WW1
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dichlorodifluoromethane	UG/KG	4 U		6 U	5 U	5 U	5 U	5 U	6 U
Ethyl benzene	UG/KG	4 U	5.5 U	6 U	5 U	5 U	5 U	5 U	6 U
Isopropylbenzene	UG/KG	4 U		6 U	5 U	5 U	5 U	5 U	6 U
Meta/Para Xylene	UG/KG		5.5 U						
Methyl Acetate	UG/KG	4 U		6 U	5 U	5 U	5 U	5 U	6 U
Methyl Tertbutyl Ether	UG/KG	4 U		6 U	5 U	5 U	5 U	5 U	6 U
Methyl bromide	UG/KG	4 U		6 U	5 U	5 U	5 U	5 U	6 U
Methyl butyl ketone	UG/KG	4 U		6 U	5 U	5 U	5 U	5 U	6 U
Methyl chloride	UG/KG	4 U		6 U	5 U	5 U	5 U	5 U	6 U
Methyl cyclohexane	UG/KG	4 U		1 J	5 U	4 J	5 U	5 U	6 U
Methyl ethyl ketone	UG/KG	4 U	11 U	6 U	5 U	5 U	5 U	5 U	6 U
Methyl isobutyl ketone	UG/KG	4 U	11 U	6 U	5 U	5 U	5 U	5 U	6 U
Methylene chloride	UG/KG	7 U	5.5 U	6 U	5 U	5 U	5 U	5 U	6 U
Ortho Xylene	UG/KG		5.5 U						
Styrene	UG/KG	4 U		6 U	5 U	5 U	5 U	5 U	6 U
Tetrachloroethane	UG/KG	4 U	5.5 U	6 U	5 U	5 U	5 U	5 U	6 U
Toluene	UG/KG	0.9 J	5.5 U	6 U	5 U	2 J	5 U	5 U	6 U
Total BTEX	MG/KG								
Total Xylenes	UG/KG	4 U		6 U	5 U	5 U	5 U	5 U	6 U
Trans-1,2-Dichloroethene	UG/KG	4 U	5.5 U	6 U	5 U	5 U	5 U	5 U	6 U
Trans-1,3-Dichloropropene	UG/KG	4 U		6 U	5 U	5 U	5 U	5 U	6 U
Trichloroethene	UG/KG	4 U	5.5 U	6 U	5 U	5 U	5 U	5 U	6 U
Trichlorofluoromethane	UG/KG	4 U		6 U	5 U	5 U	5 U	5 U	6 U
Vinyl chloride	UG/KG	4 U	11 U	6 U	5 U	5 U	5 U	5 U	6 U
Semivolatile Organics									
1,1'-Biphenyl	UG/KG	360 U		370 U	370 U	350 U	370 U	390 U	360 U
1,2,4-Trichlorobenzene	UG/KG								
1,2-Dichlorobenzene	UG/KG								
1,3-Dichlorobenzene	UG/KG								
1,4-Dichlorobenzene	UG/KG								
2,2'-oxybis(1-Chloropropane)	UG/KG	360 U		370 U	370 U	350 U	370 U	390 U	360 U
2,4,5-Trichlorophenol	UG/KG	900 U	370 U	940 U	940 U	880 U	920 U	990 U	900 U
2,4,6-Trichlorophenol	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
2,4-Dichlorophenol	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
2,4-Dimethylphenol	UG/KG	360 U		370 U	370 U	350 U	370 U	390 U	360 U
2,4-Dinitrophenol	UG/KG	900 U	1900 U	940 U	940 U	880 U	920 U	990 U	900 U
2,4-Dinitrotoluene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
2,6-Dinitrotoluene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
2-Chloronaphthalene	UG/KG	360 U		370 U	370 U	350 U	370 U	390 U	360 U
2-Chlorophenol	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
2-Methylnaphthalene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
2-Methylphenol	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
2-Nitroaniline	UG/KG	900 U	1900 U	940 U	940 U	880 U	920 U	990 U	900 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-04-WN2	CL-59-04-WS1	CL-59-04-WS2	CL-59-04-WW1	CL-59-OTHERA-F01	CL-59-OTHERA-WE1	CL-59-OTHERA-WN1	CL-59-OTHERA-WS1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-04-WN2	CL-59-04-WS1	CL-59-04-WS2	CL-59-04-WW1	CL-59-OTHERA-F01	CL-59-OTHERA-WE1	CL-59-OTHERA-WN1	CL-59-OTHERA-WS1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
2-Nitrophenol	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
3,3'-Dichlorobenzidine	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
3-Nitroaniline	UG/KG	900 U	1900 U	940 U	940 U	880 U	920 U	990 U	900 U
4,6-Dinitro-2-methylphenol	UG/KG	900 U		940 U	940 U	880 U	920 U	990 U	900 U
4-Bromophenyl phenyl ether	UG/KG	360 U		370 U	370 U	350 U	370 U	390 U	360 U
4-Chloro-1-methylphenol	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
4-Chloroaniline	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
4-Chlorophenyl phenyl ether	UG/KG	360 U		370 U	370 U	350 U	370 U	390 U	360 U
4-Methylphenol	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
4-Nitroaniline	UG/KG	900 U		940 U	940 U	880 U	920 U	990 U	900 U
4-Nitrophenol	UG/KG	900 U	1900 U	940 U	940 U	880 U	920 U	990 U	900 U
Acenaphthene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Acenaphthylene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Acetophenone	UG/KG	360 U		370 U	370 U	350 U	370 U	390 U	360 U
Aniline	UG/KG		370 U						
Anthracene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Atrazine	UG/KG	360 U		370 U	370 U	350 U	370 U	390 U	360 U
Benzaldehyde	UG/KG	360 U		370 U	370 U	350 U	370 U	390 U	360 U
Benzo(a)anthracene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Benzo(a)pyrene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Benzo(b)fluoranthene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Benzo(g,h,i)perylene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Benzo(k)fluoranthene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Benzoic Acid	UG/KG		1900 U						
Bis(2-Chloroethoxy)methane	UG/KG	360 U		370 U	370 U	350 U	370 U	390 U	360 U
Bis(2-Chloroethyl)ether	UG/KG	360 U		370 U	370 U	350 U	370 U	390 U	360 U
Bis(2-Chloroisopropyl)ether	UG/KG								
Bis(2-Ethylhexyl)phthalate	UG/KG	360 U	370 U	44 NJ	47 NJ	350 U	370 U	390 U	360 U
Butylbenzylphthalate	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Caprolactam	UG/KG	360 U		370 U	370 U	350 U	370 U	390 U	360 U
Carbazole	UG/KG	360 U		370 U	370 U	350 U	370 U	390 U	360 U
Chrysene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Di-n-butylphthalate	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Di-n-octylphthalate	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Dibenz(a,h)anthracene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Dibenzofuran	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Diethyl phthalate	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Dimethylphthalate	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Fluoranthene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Fluorene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Hexachlorobenzene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Hexachlorobutadiene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Hexachlorocyclopentadiene	UG/KG	360 U		370 U	370 U	350 U	370 U	390 U	360 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-04-WN2	CL-59-04-WS1	CL-59-04-WS2	CL-59-04-WW1	CL-59-OTHERA-F01	CL-59-OTHERA-WE1	CL-59-OTHERA-WN1	CL-59-OTHERA-WS1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-04-WN2	CL-59-04-WS1	CL-59-04-WS2	CL-59-04-WW1	CL-59-OTHERA-F01	CL-59-OTHERA-WE1	CL-59-OTHERA-WN1	CL-59-OTHERA-WS1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Hexachloromethane	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Indeno(1,2,3-cd)pyrene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Isophorone	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
N-Nitrosodiphenylamine	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
N-Nitrosodipropylamine	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Naphthalene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Nitrobenzene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Pentachlorophenol	UG/KG	900 U	1900 U	940 U	940 U	880 U	920 U	990 U	900 U
Phenanthrene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Phenol	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Pyrene	UG/KG	360 U	370 U	370 U	370 U	350 U	370 U	390 U	360 U
Pyridins	UG/KG		1900 U						60 J
Total Unknown PAHs as SV	MG/KG								
Pesticides/PCBs									
4,4'-DDD	UG/KG	3.6 U	18 U	3.7 U	3.7 U	3.5 U	3.6 U	3.9 U	3.6 U
4,4'-DDE	UG/KG	3.6 U	18 U	3.7 U	3.7 U	3.5 U	3.6 U	3.9 U	4
4,4'-DDT	UG/KG	3.6 U	18 U	3.7 U	3.7 U	4.9	3.6 U	3.9 U	3.6 U
Aldrin	UG/KG	1.8 U	9.4 U	1.9 U	1.9 U	1.8 U	1.8 U	2 U	1.8 U
Alpha-BHC	UG/KG	1.8 U	9.4 U	1.9 U	1.9 U	1.8 U	1.8 U	2 U	1.8 U
Alpha-Chlordane	UG/KG	1.8 U	9.4 U	1.9 U	1.9 U	1.8 U	1.8 U	2 U	1.8 U
Beta-BHC	UG/KG	1.8 U	9.4 U	1.9 U	1.9 U	1.8 U	1.8 U	2 U	1.8 U
Delta-BHC	UG/KG	1.8 U	9.4 U	1.9 U	1.9 U	1.8 U	1.8 U	2 U	1.8 U
Dieldrin	UG/KG	3.6 U	18 U	3.7 U	3.7 U	3.5 U	3.6 U	3.9 U	3.6 U
Endosulfan I	UG/KG	1.8 U	9.4 U	1.9 U	1.9 U	1.8 U	1.8 U	2 U	1.8 U
Endosulfan II	UG/KG	3.6 U	18 U	3.7 U	3.7 U	3.5 U	3.6 U	3.9 U	3.6 U
Endosulfan sulfate	UG/KG	3.6 U	18 U	3.7 U	3.7 U	3.5 U	3.6 U	3.9 U	3.6 U
Endrin	UG/KG	3.6 U	18 U	3.7 U	3.7 U	3.5 U	3.6 U	3.9 U	3.6 U
Endrin aldehyde	UG/KG	3.6 U	18 U	3.7 U	3.7 U	3.5 U	3.6 U	3.9 U	3.6 U
Endrin ketone	UG/KG	3.6 U	18 U	3.7 U	3.7 U	3.5 U	3.6 U	3.9 U	3.6 U
Gamma-BHC/Lindane	UG/KG	1.8 U	9.4 U	1.9 U	1.9 U	1.8 U	1.8 U	2 U	1.8 U
Gamma-Chlordane	UG/KG	1.8 U	9.4 U	1.9 U	2.4 U	1.8 U	1.8 U	2 U	1.8 U
Heptachlor	UG/KG	1.8 U	9.4 U	1.9 U	1.9 U	1.8 U	1.8 U	2 U	1.8 U
Heptachlor epoxide	UG/KG	1.8 U	9.4 U	1.9 U	1.9 U	1.8 U	1.8 U	2 U	1.8 U
Methoxychlor	UG/KG	18 U	94 U	19 U	19 U	18 U	18 U	20 U	18 U
Toxaphene	UG/KG	180 U	180 U	190 U	190 U	180 U	180 U	200 U	180 U
Aroclor-1016	UG/KG	36 U	37 U	38 U	38 U	36 U	36 U	40 U	36 U
Aroclor-1221	UG/KG	36 U	37 U	38 U	38 U	36 U	36 U	40 U	36 U
Aroclor-1232	UG/KG	36 U	37 U	38 U	38 U	36 U	36 U	40 U	36 U
Aroclor-1242	UG/KG	36 U	37 U	38 U	38 U	36 U	36 U	40 U	36 U
Aroclor-1248	UG/KG	36 U	37 U	38 U	38 U	36 U	36 U	40 U	36 U
Aroclor-1254	UG/KG	36 U	37 U	38 U	38 U	36 U	36 U	40 U	36 U
Aroclor-1260	UG/KG	36 U	37 U	38 U	38 U	36 U	36 U	40 U	36 U
Metals									

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-04-WN2	CL-59-04-WS1	CL-59-04-WS2	CL-59-04-WW1	CL-59-OTHERA-F01	CL-59-OTHERA-WE1	CL-59-OTHERA-WN1	CL-59-OTHERA-WS1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-04-WN2	CL-59-04-WS1	CL-59-04-WS2	CL-59-04-WW1	CL-59-OTHERA-F01	CL-59-OTHERA-WE1	CL-59-OTHERA-WN1	CL-59-OTHERA-WS1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	6020 J	8210	9070	12200	10600	13700	16800	11600
Antimony	MG/KG	1.1 J	3.2 UJ	1.7 J	2 J	1.5 J	1.1 J	1.4 J	0.9 J
Arsenic	MG/KG	3.6 J	5 J	4.2	6.3	6.3	6.7	6.5	8.3
Barium	MG/KG	67.1 J	59.6	90.4	68	87.5	135	198	126
Beryllium	MG/KG	0.31 J	0.23	0.43	0.58	0.6	0.72	1.1	0.69
Cadmium	MG/KG	0.21 J	0.27 U	0.23	0.27	0.32 J	0.21 J	0.51	0.44
Calcium	MG/KG	103000 J	2540	99200	2230	36200	2780	6310	5590
Chromium	MG/KG	9.7 J	15.9	13.6	20.7	16.2	19.1	21.4	16.9
Cobalt	MG/KG	5.2 J	9.8	7.2 J	9.3 J	12.8 J	7.9 J	9.8 J	14.4 J
Copper	MG/KG	16 J	21.4	18.8	17.7	21.1	16.4	31.6	20.3
Cyanide	MG/KG								
Iron	MG/KG	11900 J	20300 J	18400 J	26300 J	22800	25100	26500	26000
Lead	MG/KG	6 J	12.3	7.2 J	8 J	14.3	12.1	19	37
Magnesium	MG/KG	18600 J	3650	16400 J	4760 J	7060	3510	3910	3970
Manganese	MG/KG	281 J	421	407 J	849 J	908	288	837	1170
Mercury	MG/KG	0.02 U	0.02 J	0.05	0.03 J	0.03 J	0.03 J	0.14	0.14
Nickel	MG/KG	17.1 J	26.4	22.1 J	30.9 J	26.9	20.2	25.3	24.7
Potassium	MG/KG	751 J	972	1590	1010	1000	971	1230	895
Selenium	MG/KG	0.42 U	0.53 U	0.41 U	0.42 U	0.43 UJ	0.44 UJ	0.48 UJ	0.43 UJ
Silver	MG/KG	0.11 U	0.53 U	0.1 U	1.7	1.8	2.5	2.9	2.8
Sodium	MG/KG	123 J	92.5	171	99.8	73.1	93.6	49.8 J	39.6 J
Thallium	MG/KG	0.21 U	0.53 U	0.2 U	0.21 U	0.22 U	0.22 U	0.24 U	0.21 U
Vanadium	MG/KG	10.8 J	17.7	15.8	16.5	18	25.4	26.1	22.8
Zinc	MG/KG	33.3 J	82.2 J	39.9 J	68.5 J	58.1	46.1	73.5	54

Notes:

(1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)

(2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entry and averaged result values were used in risk assessment analysis

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected, the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-OTHERA-WW1	CL-59-OTHERB-F01	CL-59-OTHERB-WE1	CL-59-OTHERB-WN1	CL-59-OTHERB-WS1	CL-59-OTHERB-WW1	CL-59-OTHERC-F01
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-OTHERA-WW1	CL-59-OTHERB-F01	CL-59-OTHERB-WE1	CL-59-OTHERB-WN1	CL-59-OTHERB-WS1	CL-59-OTHERB-WW1	CL-59-OTHERC-F01
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics								
1,1,1-Trichloroethane	UG/KG	5 U	4 U	6 U	5 U	5 U	5 U	5.4 U
1,1,2,2-Tetrachloroethane	UG/KG	5 UJ	4 U	6 UJ	5 U	5 U	5 R	5.4 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5 U	4 U	6 U	5 U	5 U	5 U	5.4 U
1,1,2-Trichloroethane	UG/KG	5 U	4 U	6 U	5 U	5 U	5 U	5.4 U
1,1-Dichloroethane	UG/KG	5 U	4 U	6 U	5 U	5 U	5 U	5.4 U
1,1-Dichloroethene	UG/KG	5 U	4 U	6 U	5 U	5 U	5 U	5.4 U
1,2,3-Trichloropropane	UG/KG							5.4 U
1,2,4-Trichlorobenzene	UG/KG	5 UJ	4 U	6 UJ	5 U	5 U	5 R	5.4 U
1,2-Dibromo-3-chloropropane	UG/KG	5 UJ	4 U	6 UJ	5 U	5 UJ	5 R	
1,2-Dibromoethane	UG/KG	5 U	4 U	6 UJ	5 U	5 U	5 U	
1,2-Dichlorobenzene	UG/KG	5 UJ	4 U	6 UJ	5 U	5 U	5 R	5.4 U
1,2-Dichloroethane	UG/KG	5 U	4 U	6 U	5 U	5 U	5 U	5.4 U
1,2-Dichloroethene (total)	UG/KG							
1,2-Dichloropropane	UG/KG	5 U	4 U	6 U	5 U	5 U	5 U	
1,3-Dichlorobenzene	UG/KG	5 UJ	4 U	6 UJ	5 U	5 U	5 R	5.4 U
1,3-Dichloropropane	UG/KG							5.4 U
1,4-Dichlorobenzene	UG/KG	5 UJ	4 U	6 UJ	5 U	5 U	5 R	5.4 U
Acetone	UG/KG	5 U	4 UJ	35 UJ	5 UJ	14 U	24 U	22 U
Benzene	UG/KG	5 U	4 U	6 U	5 U	5 U	1 J	5.4 U
Bromodichloromethane	UG/KG	5 U	4 U	6 U	5 U	5 U	5 U	
Bromoform	UG/KG	5 UJ	4 U	6 UJ	5 U	5 UJ	5 UJ	
Carbon disulfide	UG/KG	5 U	4 U	6 U	5 U	5 U	5 U	5.4 U
Carbon tetrachloride	UG/KG	5 U	4 U	6 U	5 U	5 U	5 U	5.4 U
Chlorobenzene	UG/KG	5 U	4 U	6 UJ	5 U	5 U	5 U	5.4 U
Chlorodibromomethane	UG/KG	5 U	4 U	6 UJ	5 U	5 U	5 U	5.4 U
Chloroethane	UG/KG	5 U	4 UJ	6 U	5 UJ	5 U	5 U	11 U
Chloroform	UG/KG	5 U	4 U	6 U	5 U	5 U	5 U	5.4 U
Cis-1,2-Dichloroethene	UG/KG	5 U	4 U	6 U	5 U	5 U	5 U	
Cis-1,3-Dichloropropene	UG/KG	5 U	4 U	6 U	5 U	5 U	5 U	
Cyclohexane	UG/KG	5 U	4 U	6 U	5 U	5 U	3 J	

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Facility	CL-59-OTHERA-WWI	CL-59-OTHERB-F01	CL-59-OTHERB-WE1	CL-59-OTHERB-WN1	CL-59-OTHERB-WS1	CL-59-OTHERB-WWI	CL-59-OTHERC-F01
Location ID	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Matrix	CL-59-OTHERA-WWI	CL-59-OTHERB-F01	CL-59-OTHERB-WE1	CL-59-OTHERB-WN1	CL-59-OTHERB-WS1	CL-59-OTHERB-WWI	CL-59-OTHERC-F01
Sample ID	0	0	0	0	0	0	0
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dichlorodifluoromethane	UG/KG	5 U	4 U	6 U	5 U	5 U	5 U
Ethyl benzene	UG/KG	5 U	4 U	6 U	5 U	5 U	5.4 U
Isopropylbenzene	UG/KG	5 U	4 U	6 U	5 U	5 U	
Meta Para Xylene	UG/KG						5.4 U
Methyl Acetate	UG/KG	5 U	4 U	2 J	5 U	1 J	1 J
Methyl Tertiary Ether	UG/KG	5 U	4 U	6 U	5 U	5 U	
Methyl bromide	UG/KG	5 U	4 U	6 U	5 U	5 U	
Methyl butyl ketone	UG/KG	5 U	4 U	6 U	5 U	5 U	
Methyl chloride	UG/KG	5 U	4 U	6 U	5 U	5 U	
Methyl cyclohexane	UG/KG	5 U	4 U	6 U	5 U	5 U	
Methyl ethyl ketone	UG/KG	5 U	4 U	2 J	5 U	2 J	11 U
Methyl isobutyl ketone	UG/KG	5 U	4 U	6 U	5 U	5 U	11 U
Methylene chloride	UG/KG	5 U	4 U	6 U	5 U	5 U	5.4 U
Ortho Xylene	UG/KG						5.4 U
Styrene	UG/KG	5 U	4 U	6 U	5 U	5 U	
Tetrachloroethene	UG/KG	5 U	4 U	6 U	5 U	5 U	5.4 U
Toluene	UG/KG	5 U	4 U	6 U	5 U	5 U	5.4 U
Total BTEX	MG/KG						
Total Xylenes	UG/KG	5 U	4 U	6 U	5 U	5 U	2 J
Trans-1,2-Dichloroethene	UG/KG	5 U	4 U	6 U	5 U	5 U	5.4 U
Trans-1,3-Dichloropropene	UG/KG	5 U	4 U	6 U	5 U	5 U	
Trichloroethene	UG/KG	5 U	4 U	6 U	5 U	5 U	5.4 U
Trichlorofluoromethane	UG/KG	5 U	4 U	6 U	5 U	5 U	
Vinyl chloride	UG/KG	5 U	4 U	6 U	5 U	5 U	11 U
Semivolatile Organics							
1,1'-Biphenyl	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U
1,2,4-Trichlorobenzene	UG/KG						
1,2-Dichlorobenzene	UG/KG						
1,3-Dichlorobenzene	UG/KG						
1,4-Dichlorobenzene	UG/KG						
2,2'-oxybis(1-Chloropropane)	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U
2,4,5-Trichlorophenol	UG/KG	930 U	910 U	930 U	920 U	870 U	890 U
2,4,6-Trichlorophenol	UG/KG	370 U	360 U	370 U	370 U	350 U	360 U
2,4-Dichlorophenol	UG/KG	370 U	360 U	370 U	370 U	350 U	360 U
2,4-Dimethylphenol	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U
2,4-Dinitrophenol	UG/KG	930 U	910 U	930 U	920 U	870 U	890 U
2,4-Dinitrotoluene	UG/KG	370 U	360 U	370 U	370 U	350 U	360 U
2,6-Dinitrotoluene	UG/KG	370 U	360 U	370 U	370 U	350 U	360 U
2-Chloronaphthalene	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U
2-Chlorophenol	UG/KG	370 U	360 U	370 U	370 U	350 U	360 U
2-Methylnaphthalene	UG/KG	370 U	360 U	370 U	370 U	350 U	360 U
2-Methylphenol	UG/KG	370 U	360 U	370 U	370 U	350 U	360 U
2-Nitroaniline	UG/KG	930 U	910 U	930 U	920 U	870 U	890 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Facility	CL-59-OTHERA-WWI	CL-59-OTHERB-F01	CL-59-OTHERB-WE1	CL-59-OTHERB-WNI	CL-59-OTHERB-WS1	CL-59-OTHERB-WWI	CL-59-OTHERC-F01	CL-59-OTHERC-F01
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	CL-59-OTHERA-WWI	CL-59-OTHERB-F01	CL-59-OTHERB-WE1	CL-59-OTHERB-WNI	CL-59-OTHERB-WS1	CL-59-OTHERB-WWI	CL-59-OTHERC-F01	CL-59-OTHERC-F01
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
2-Nitrophenol	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
3,3'-Dichlorobenzidine	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
3-Nitroaniline	UG/KG	930 U	910 U	930 U	920 U	870 U	890 U	1800 U
4,6-Dinitro-2-methylphenol	UG/KG	930 U	910 U	930 U	920 U	870 U	890 U	
4-Bromophenyl phenyl ether	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	
4-Chloro-3-methylphenol	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
4-Chloroaniline	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
4-Chlorophenyl phenyl ether	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	
4-Methylphenol	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
4-Nitroaniline	UG/KG	930 U	910 U	930 U	920 U	870 U	890 U	
4-Nitrophenol	UG/KG	930 U	910 U	930 U	920 U	870 U	890 U	1800 U
Acenaphthene	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Acenaphthylene	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Acetophenone	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	
Aniline	UG/KG							360 U
Anthracene	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Atrazine	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	
Benzaldehyde	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	
Benzo(a)anthracene	UG/KG	370 U	360 U	370 U	370 U	350 U	100 J	360 U
Benzo(a)pyrene	UG/KG	370 U	360 U	370 U	370 U	350 U	120 J	360 U
Benzo(b)fluoranthene	UG/KG	370 U	360 U	370 U	370 U	350 U	150 J	360 U
Benzo(ghi)perylene	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Benzo(k)fluoranthene	UG/KG	370 U	360 U	370 U	370 U	350 U	100 J	360 U
Benzoic Acid	UG/KG							1800 U
Bis(2-Chloroethoxy)methane	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	
Bis(2-Chloroethyl)ether	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	
Bis(2-Chloroisopropyl)ether	UG/KG							
Bis(2-Ethylhexyl)phthalate	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Butylbenzylphthalate	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Caprolactam	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	
Carbazole	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	
Chrysene	UG/KG	370 U	360 U	370 U	370 U	350 U	120 J	360 U
Di-n-butylphthalate	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Di-n-octylphthalate	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Dibenz(a,h)anthracene	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Dibenzofuran	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Diethyl phthalate	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Dimethylphthalate	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Fluoranthene	UG/KG	370 U	360 U	370 U	370 U	350 U	200 J	360 U
Fluorene	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Hexachlorobenzene	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Hexachlorobutadiene	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Hexachlorocyclopentadiene	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-OTHERA-WWI	CL-59-OTHERB-F01	CL-59-OTHERB-WEI	CL-59-OTHERB-WNI	CL-59-OTHERB-WSI	CL-59-OTHERB-WWI	CL-59-OTHERC-F01
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-OTHERA-WWI	CL-59-OTHERB-F01	CL-59-OTHERB-WEI	CL-59-OTHERB-WNI	CL-59-OTHERB-WSI	CL-59-OTHERB-WWI	CL-59-OTHERC-F01
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Hexachloroethane	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Indeno(1,2,3-cd)pyrene	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Isophorone	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
N-Nitrosodiphenylamine	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
N-Nitrosodipropylamine	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Naphthalene	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Nitrobenzene	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Pentachlorophenol	UG/KG	930 U	910 U	930 U	920 U	870 U	890 U	1800 U
Phenanthrene	UG/KG	370 U	360 U	370 U	370 U	350 U	84 U	360 U
Phenol	UG/KG	370 U	360 U	370 U	370 U	350 U	350 U	360 U
Pyrene	UG/KG	370 U	360 U	370 U	370 U	350 U	210 U	360 U
Pyridine	UG/KG							1800 U
Total Unknown PAHs as SV	MG/KG							
Pesticides/PCBs								
4,4'-DDD	UG/KG	3.7 U	3.6 U	3.7 U	3.6 U	3.5 U	3.5 U	18 U
4,4'-DDE	UG/KG	3.7 U	3.6 U	3.7 U	3.6 U	3.5 U	6.7	18 U
4,4'-DDT	UG/KG	3.7 U	3.6 U	3.7 U	3.6 U	3.5 U	3.5 U	18 U
Aldrin	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	9.2 U
Alpha-BHC	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	9.2 U
Alpha-Chlordane	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	9.2 U
Beta-BHC	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	9.2 U
Delta-BHC	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	9.2 U
Dieldrin	UG/KG	3.7 U	3.6 U	3.7 U	3.6 U	3.5 U	3.5 U	18 U
Endosulfan I	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	9.2 U
Endosulfan II	UG/KG	3.7 U	3.6 U	3.7 U	3.6 U	3.5 U	3.5 U	18 U
Endosulfan sulfate	UG/KG	3.7 U	3.6 U	3.7 U	3.6 U	3.5 U	3.5 U	18 U
Endrin	UG/KG	3.7 U	3.6 U	3.7 U	3.6 U	3.5 U	3.5 U	18 U
Endrin aldehyde	UG/KG	3.7 U	3.6 U	3.7 U	3.6 U	3.5 U	3.5 U	18 U
Endrin ketone	UG/KG	3.7 U	3.6 U	3.7 U	3.6 U	3.5 U	3.5 U	18 U
Gamma-BHC-Lindane	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	9.2 U
Gamma-Chlordane	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	9.2 U
Heptachlor	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	9.2 U
Heptachlor epoxide	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	9.2 U
Methoxychlor	UG/KG	19 U	19 U	19 U	19 U	18 U	18 U	92 U
Toxaphene	UG/KG	190 U	190 U	190 U	190 U	180 U	180 U	180 U
Aroclor-1016	UG/KG	38 U	37 U	37 U	37 U	35 U	36 U	36 U
Aroclor-1221	UG/KG	38 U	37 U	37 U	37 U	35 U	36 U	36 U
Aroclor-1232	UG/KG	38 U	37 U	37 U	37 U	35 U	36 U	36 U
Aroclor-1242	UG/KG	38 U	37 U	37 U	37 U	35 U	36 U	36 U
Aroclor-1248	UG/KG	38 U	37 U	37 U	37 U	35 U	36 U	36 U
Aroclor-1254	UG/KG	38 U	37 U	37 U	37 U	35 U	36 U	36 U
Aroclor-1260	UG/KG	38 U	37 U	37 U	37 U	35 U	36 U	36 U
Metals								

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-OTHERA-WW1	CL-59-OTHERB-F01	CL-59-OTHERB-WE1	CL-59-OTHERB-WN1	CL-59-OTHERB-WS1	CL-59-OTHERB-WW1	CL-59-OTHERC-F01
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-OTHERA-WW1	CL-59-OTHERB-F01	CL-59-OTHERB-WE1	CL-59-OTHERB-WN1	CL-59-OTHERB-WS1	CL-59-OTHERB-WW1	CL-59-OTHERC-F01
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	12500	11400	11400	12400	11200	10700	10800
Antimony	MG/KG	1.5 J	1.1 J	1.5 J	1.5 J	1.4 J	1.4 J	3.2 UJ
Arsenic	MG/KG	6	6.4	5.6	7.8	6.2	5.9	3.7
Barium	MG/KG	166	59.6	81	92.5	81.2	64.4	82.9
Beryllium	MG/KG	0.67	0.57	0.6	0.68	0.56	0.54	0.23
Cadmium	MG/KG	0.51	0.26 J	0.17 J	0.26 J	0.19 J	0.27 J	0.27 U
Calcium	MG/KG	4390	11800	9390	3140	2540	25600	17200
Chromium	MG/KG	16.5	18.3	17.7	19.5	17.4	16	15.9
Cobalt	MG/KG	10.2 J	8.3 J	7.9 J	12.6 J	9.1 J	7.2 J	6
Copper	MG/KG	12.9	19.9	17.7	30.2	25.1	18.8	17.6
Cyanide	MG/KG							
Iron	MG/KG	23700	23800	22300	26200	23200	20900	19300 J
Lead	MG/KG	31.4	13.1	12.8	17.1	11.7	15.9	20.8 J
Magnesium	MG/KG	2530	5280	5090	4520	4390	6540	5170
Manganese	MG/KG	1050	261	265	540	543	340	267 J
Mercury	MG/KG	0.11	0.06	0.05	0.05	0.02 J	0.06	0.11
Nickel	MG/KG	15.4	27.6	28.5	35.5	27.9	23.1	21.8
Potassium	MG/KG	831	833	838	962	947	793	1090
Selenium	MG/KG	0.45 UJ	0.36 UJ	0.45 UJ	0.44 UJ	0.43 UJ	0.39 UJ	0.54 U
Silver	MG/KG	2.6	2	2.1	2.5	2.3	1.7	0.54 U
Sodium	MG/KG	35.9 J	164	239	95.7	96	109	193
Thallium	MG/KG	0.23 U	0.18 U	0.4 J	0.22 U	0.21 U	0.19 U	0.54 U
Vanadium	MG/KG	22.9	18.3	18.2	21.5	19.6	16.5	19.9
Zinc	MG/KG	46.2	125	54.8	74.4	57.4	68.6	90.4 J

Note(s):

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
 - (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis
- U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected; the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-OTHERC-WE2	CL-59-OTHERC-WN1	CL-59-OTHERC-WS1	CL-59-OTHERC-WW1	FD-59-CL-01	FD-59-CL-02	FD-59-CL-05	FD-59-CL-06
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-OTHERC-WE2	CL-59-OTHERC-WN1	CL-59-OTHERC-WS1	CL-59-OTHERC-WW1	FD-59-CL-01	FD-59-CL-02	FD-59-CL-05	FD-59-CL-06
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics									
1,1,1-Trichloroethane	UG/KG	5 U	5.3 U	6 U	5.6 U	5.8 U	6 U	6.2 U	5 U
1,1,2,2-Tetrachloroethane	UG/KG	5 UJ	5.3 U	6 U	5.6 U	5.8 U	6 UJ	6.2 UJ	5 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5 U	5.3 U	6 U	5.6 U	5.8 U	6 U	6.2 U	5 U
1,1,2-Trichloroethane	UG/KG	5 U					6 U		5 UJ
1,1-Dichloroethane	UG/KG	5 U	5.3 U	6 U	5.6 U	5.8 U	6 U	6.2 U	5 U
1,1-Dichloroethene	UG/KG	5 U	5.3 U	6 U	5.6 U	5.8 U	6 U	6.2 U	5 UJ
1,2,3-Trichloropropane	UG/KG		5.3 U	6 U	5.6 U	5.8 U		6.2 U	
1,2,4-Trichlorobenzene	UG/KG	5 UJ	5.3 U	6 U	5.6 U	5.8 U	6 UJ	6.2 U	5 U
1,2-Dibromo-3-chloropropane	UG/KG	5 UJ					6 UJ		5 U
1,2-Dibromoethane	UG/KG	5 U					6 U		5 UJ
1,2-Dichlorobenzene	UG/KG	5 UJ	5.3 U	6 U	5.6 U	5.8 U	6 UJ	6.2 U	5 U
1,2-Dichloroethane	UG/KG	5 U	5.3 U	6 U	5.6 U	5.8 U	6 U	6.2 U	5 U
1,2-Dichloroethene (total)	UG/KG								
1,2-Dichloropropane	UG/KG	5 U					6 U		5 U
1,3-Dichlorobenzene	UG/KG	5 UJ	5.3 U	6 U	5.6 U	5.8 U	6 UJ	6.2 U	5 U
1,3-Dichloropropane	UG/KG		5.3 U	6 U	5.6 U	5.8 U		6.2 U	
1,4-Dichlorobenzene	UG/KG	5 UJ	5.3 U	6 U	5.6 U	5.8 U	6 UJ	6.2 U	5 U
Acetone	UG/KG	16 J	21 U	24 UJ	22 U	23 U	9 U	7.5 J	11 UJ
Benzene	UG/KG	5 U	5.3 U	6 U	5.6 U	5.8 U	6 U	6.2 U	5 U
Bromodichloromethane	UG/KG	5 U					6 U		5 U
Bromoform	UG/KG	5 U					6 UJ		5 U
Carbon disulfide	UG/KG	5 U	5.3 U	6 U	5.6 U	5.8 U	6 U	6.2 U	5 U
Carbon tetrachloride	UG/KG	5 U	5.3 U	6 U	5.6 U	5.8 U	6 U	6.2 U	5 U
Chlorobenzene	UG/KG	5 U	5.3 U	6 U	5.6 U	5.8 U	6 U	6.2 U	5 U
Chlorodibromomethane	UG/KG	5 U	5.3 U	6 U	5.6 U	5.8 U	6 U	6.2 U	5 U
Chloroethane	UG/KG	5 U	11 U	12 U	11 U	12 U	6 U	12 U	5 UJ
Chloroform	UG/KG	5 U	5.3 U	6 U	5.6 U	5.8 U	6 U	6.2 U	5 U
Cis-1,2-Dichloroethene	UG/KG	5 U					6 U		5 U
Cis-1,3-Dichloropropene	UG/KG	5 U					6 U		5 U
Cyclohexane	UG/KG	5 U					1 J		5 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility Location ID	SEAD-59 CL-59-OTHERC-WE2	SEAD-59 CL-59-OTHERC-WN1	SEAD-59 CL-59-OTHERC-WS1	SEAD-59 CL-59-OTHERC-WW1	SEAD-59 FD-59-CL-01	SEAD-59 FD-59-CL-02	SEAD-59 FD-59-CL-05	SEAD-59 FD-59-CL-06
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-OTHERC-WE2	CL-59-OTHERC-WN1	CL-59-OTHERC-WS1	CL-59-OTHERC-WW1	FD-59-CL-01	FD-59-CL-02	FD-59-CL-05	FD-59-CL-06
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dichlorodifluoromethane	UG/KG	5 U				6 U			5 U
Ethyl benzene	UG/KG	5 U	5.3 U	6 U	5.6 U	5.8 U	6 U	6.2 U	5 U
Isopropylbenzene	UG/KG	5 U					6 U		5 U
Meta/Para Xylene	UG/KG		5.3 U	6 U	5.6 U	5.8 U		6.2 U	
Methyl Acetate	UG/KG	5 U					6 U		5 U
Methyl Tertbutyl Ether	UG/KG	5 U					6 U		5 U
Methyl bromide	UG/KG	5 U					6 U		5 U
Methyl butyl ketone	UG/KG	5 U					6 U		5 U
Methyl chloride	UG/KG	5 U					6 U		5 U
Methyl cyclohexane	UG/KG	5 U					2 J		5 U
Methyl ethyl ketone	UG/KG	5 U	11 U	12 U	11 U	12 U	6 U	12 U	5 U
Methyl isobutyl ketone	UG/KG	5 U	11 U	1.9 J	11 U	12 U	6 U	12 U	5 U
Methylene chloride	UG/KG	5 U	5.3 U	6 U	5.6 U	5.8 U	6 U	6.2 U	5 U
Ortho Xylene	UG/KG		5.3 U	6 U	5.6 U	5.8 U		6.2 U	
Styrene	UG/KG	5 U					6 U		5 U
Tetrachloromethane	UG/KG	5 U	5.3 U	6 U	5.6 U	5.8 U	6 U	6.2 U	5 U
Toluene	UG/KG	5 U	5.3 U	6 U	5.6 U	5.8 U	1 J	6.2 U	5 U
Total BTEX	MG/KG								
Total Xylenes	UG/KG	5 UJ					1 J		5 U
Trans-1,2-Dichloroethene	UG/KG	5 U	5.3 U	6 U	5.6 U	5.8 U	6 U	6.2 U	5 U
Trans-1,3-Dichloropropene	UG/KG	5 U					6 U		5 U
Trichloroethene	UG/KG	5 U	5.3 U	6 U	5.6 U	5.8 U	6 U	6.2 U	5 U
Trichlorofluoromethane	UG/KG	5 U					6 U		5 U
Vinyl chloride	UG/KG	5 U	11 U	12 U	11 U	12 U	6 U	12 U	5 U
Semivolatile Organics									
1,1'-Biphenyl	UG/KG	360 U					370 U		360 U
1,2,4-Trichlorobenzene	UG/KG								
1,2-Dichlorobenzene	UG/KG								
1,3-Dichlorobenzene	UG/KG								
1,4-Dichlorobenzene	UG/KG								
2,2'-oxybis(1-Chloropropane)	UG/KG	360 U					370 U		360 UJ
2,4,5-Trichlorophenol	UG/KG	910 U	350 UJ	400 U	370 U	380 U	940 U	410 U	910 U
2,4,6-Trichlorophenol	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
2,4-Dichlorophenol	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
2,4-Dimethylphenol	UG/KG	360 U					370 U		360 U
2,4-Dinitrophenol	UG/KG	910 U	1800 UJ	2000 U	1900 U	2000 U	940 UJ	2100 U	910 U
2,4-Dinitrotoluene	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
2,6-Dinitrotoluene	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
2-Chloronaphthalene	UG/KG	360 U					370 U		360 U
2-Chlorophenol	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
2-Methylnaphthalene	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
2-Methylphenol	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
2-Nitroaniline	UG/KG	910 U	1800 UJ	2000 U	1900 U	2000 U	940 U	2100 U	910 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-OTHERC-WE2	CL-59-OTHERC-WN1	CL-59-OTHERC-WS1	CL-59-OTHERC-WW1	FD-59-CL-01	FD-59-CL-02	FD-59-CL-05	FD-59-CL-06
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-OTHERC-WE2	CL-59-OTHERC-WN1	CL-59-OTHERC-WS1	CL-59-OTHERC-WW1	FD-59-CL-01	FD-59-CL-02	FD-59-CL-05	FD-59-CL-06
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
2-Nitrophenol	UG/KG	360 U	350 UJ	400 UJ	370 U	380 U	370 U	410 U	360 U
3,3'-Dichlorobenzidine	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 UJ
3-Nitroaniline	UG/KG	910 U	1800 UJ	2000 UJ	1900 U	2000 U	940 U	2100 U	910 U
4,6-Dinitro-2-methylphenol	UG/KG	910 U					940 U		910 U
4-Bromophenyl phenyl ether	UG/KG	360 U					370 U		360 U
4-Chloro-1-methylphenol	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
4-Chloroaniline	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 UJ	410 U	360 U
4-Chlorophenyl phenyl ether	UG/KG	360 U					370 U		360 U
4-Methylphenol	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
4-Nitroaniline	UG/KG	910 U					940 UJ		910 U
4-Nitrophenol	UG/KG	910 U	1800 UJ	2000 U	1900 U	2000 U	940 U	2100 U	910 U
Acenaphthene	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
Acenaphthylene	UG/KG	360 U	350 UJ	400 U	370 U	43 J	370 U	46 J	360 U
Acetophenone	UG/KG	360 U					370 U		360 U
Aniline	UG/KG		350 UJ	400 U	370 U	380 U		410 U	
Anthracene	UG/KG	360 U	350 UJ	400 U	370 U	68 J	370 U	410 U	360 U
Atrazine	UG/KG	360 U					370 U		360 U
Benzaldehyde	UG/KG	360 U					370 UJ		360 U
Benzo(a)anthracene	UG/KG	95 J	130 J	69 J	370 U	190 J	370 U	150 J	360 U
Benzo(a)pyrene	UG/KG	97 J	130 J	61 NJ	370 U	180 J	370 U	180 J	360 U
Benzo(b)fluoranthene	UG/KG	140 J	120 J	67 J	370 U	160 J	370 U	120 J	360 U
Benzo(ghi)perylene	UG/KG	360 U	87 J	400 U	370 U	140 J	370 U	110 J	360 U
Benzo(k)fluoranthene	UG/KG	85 NJ	120 J	400 U	370 U	170 J	370 U	130 J	360 U
Benzoic Acid	UG/KG		1800 UJ	2000 U	1900 U	2000 U		2100 U	
Bis(2-Chloroethoxy)methane	UG/KG	360 U					370 U		360 U
Bis(2-Chloroethyl)ether	UG/KG	360 U					370 U		360 U
Bis(2-Chloroisopropyl)ether	UG/KG								
Bis(2-Ethylhexyl)phthalate	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
Butylbenzylphthalate	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
Caproactam	UG/KG	360 U					370 U		360 U
Carbazole	UG/KG	360 U					370 U		360 U
Chrysene	UG/KG	110 J	170 J	89 J	370 U	210 J	370 U	150 J	360 U
Di-n-butylphthalate	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
Di-n-octylphthalate	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
Dibenz(a,h)anthracene	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	44 J	360 U
Dibenzofuran	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
Diethylphthalate	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
Dimethylphthalate	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
Fluoranthene	UG/KG	180 J	140 J	89 J	370 U	150 J	370 U	200 J	360 U
Fluorene	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
Hexachlorobenzene	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
Hexachlorobutadiene	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
Hexachlorocyclopentadiene	UG/KG	360 U					370 U		360 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Facility Location ID	SEAD-59 CL-59-OTHERC-WE2	SEAD-59 CL-59-OTHERC-WN1	SEAD-59 CL-59-OTHERC-WSI	SEAD-59 CL-59-OTHERC-WWI	SEAD-59 FD-59-CL-01	SEAD-59 FD-59-CL-02	SEAD-59 FD-59-CL-05	SEAD-59 FD-59-CL-06	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample ID	CL-59-OTHERC-WE2	CL-59-OTHERC-WN1	CL-59-OTHERC-WSI	CL-59-OTHERC-WWI	FD-59-CL-01	FD-59-CL-02	FD-59-CL-05	FD-59-CL-06	
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Hexachloroethane	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
Indeno(1,2,3-cd)pyrene	UG/KG	360 U	75 J	400 U	370 U	130 J	370 U	100 J	360 U
Isophorone	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
N-Nitrosodiphenylamine	UG/KG	360 U					370 U		360 U
N-Nitrosodipropylamine	UG/KG	360 U					370 U		360 U
Naphthalene	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
Nitrobenzene	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
Pentachlorophenol	UG/KG	910 U	1800 UJ	2000 U	1900 U	2000 U	940 U	2100 U	910 U
Phenanthrene	UG/KG	73 J	58 J	400 U	370 U	180 J	370 U	79 J	360 U
Phenol	UG/KG	360 U	350 UJ	400 U	370 U	380 U	370 U	410 U	360 U
Pyrene	UG/KG	170 J	140 J	98 J	370 U	320 J	370 U	200 J	360 U
Pyridine	UG/KG		1800 UJ	2000 U	1900 U	2000 U		2100 U	360 U
Total Unknown PAHs as SV	MG/KG								
Pesticides/PCBs									
4,4'-DDD	UG/KG	13	18 UJ	20 U	19 U	83 J	3.7 U	20 U	3.6 U
4,4'-DDE	UG/KG	27	18 U	22 J	19 U	35 J	3.7 U	20 U	3.6 U
4,4'-DDT	UG/KG	59	18 U	24	19 U	19 U	3.7 U	20 U	3.6 U
Aldrin	UG/KG	1.8 U	9.1 U	10 U	9.5 U	9.8 U	1.9 U	10 U	1.9 U
Alpha-BHC	UG/KG	1.8 U	9.1 U	10 U	9.5 U	9.8 U	1.9 U	10 U	1.9 U
Alpha-Chlordane	UG/KG	1.8 U	9.1 U	10 U	9.5 U	9.8 U	1.9 U	10 U	1.9 U
Beta-BHC	UG/KG	1.8 U	9.1 U	10 U	9.5 U	9.8 U	1.9 U	10 U	1.9 U
Delta-BHC	UG/KG	1.8 U	9.1 U	10 U	9.5 U	9.8 U	1.9 U	10 U	1.9 U
Dieldrin	UG/KG	3.6 U	18 U	20 U	19 U	19 U	3.7 U	20 U	3.6 U
Endosulfan I	UG/KG	1.8 U	9.1 U	10 U	9.5 U	9.8 U	1.9 U	10 U	1.9 U
Endosulfan II	UG/KG	3.6 U	18 U	20 U	19 U	19 U	3.7 U	20 U	3.6 U
Endosulfan sulfate	UG/KG	6.2 J	18 U	20 U	19 U	19 U	3.7 U	20 U	3.6 U
Endrin	UG/KG	3.6 U	18 U	20 U	19 U	19 U	3.7 U	20 U	3.6 U
Endrin aldehyde	UG/KG	3.6 U	18 U	20 U	19 U	19 U	3.7 U	20 U	3.6 U
Endrin ketone	UG/KG	3.6 U	18 U	20 U	19 U	19 U	3.7 U	20 U	3.6 U
Gamma-BHC/Lindane	UG/KG	1.8 U	9.1 U	10 U	9.5 U	9.8 U	1.9 U	10 U	1.9 U
Gamma-Chlordane	UG/KG	1.8 U	9.1 U	10 U	9.5 U	9.8 U	1.9 U	10 U	1.9 U
Heptachlor	UG/KG	1.8 U	9.1 U	10 U	9.5 U	9.8 U	1.9 U	10 U	1.9 U
Heptachlor epoxide	UG/KG	1.8 U	9.1 U	10 U	9.5 U	9.8 U	1.9 U	10 U	1.9 U
Methoxychlor	UG/KG	18 U	91 U	100 U	95 U	98 U	19 U	100 U	19 U
Toxaphene	UG/KG	180 U	180 U	200 U	190 U	190 U	190 U	200 U	190 U
Aroclor-1016	UG/KG	36 U	35 U	40 U	37 U	38 U	38 U	41 U	37 U
Aroclor-1221	UG/KG	36 U	35 U	40 U	37 U	38 U	38 U	41 U	37 U
Aroclor-1232	UG/KG	36 U	35 U	40 U	37 U	38 U	38 U	41 U	37 U
Aroclor-1242	UG/KG	36 U	35 U	40 U	37 U	38 U	38 U	41 U	37 U
Aroclor-1248	UG/KG	36 U	35 U	40 U	37 U	38 U	38 U	41 U	37 U
Aroclor-1254	UG/KG	36 U	35 U	40 U	37 U	38 U	38 U	41 U	37 U
Aroclor-1260	UG/KG	79 NJ	35 U	40 U	37 U	38 U	38 U	41 U	37 U
Metals									

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
- Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	CL-59-OTHERC-WE2	CL-59-OTHERC-WN1	CL-59-OTHERC-WS1	CL-59-OTHERC-WW1	FD-59-CL-01	FD-59-CL-02	FD-59-CL-05	FD-59-CL-06
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-59-OTHERC-WE2	CL-59-OTHERC-WN1	CL-59-OTHERC-WS1	CL-59-OTHERC-WW1	FD-59-CL-01	FD-59-CL-02	FD-59-CL-05	FD-59-CL-06
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	14700 J	12900	13800	14200	12200	7650 J	11000	5850 J
Antimony	MG/KG	2.4 J	3.2 UJ	3.6 UJ	3.4 UJ	1.1 J	3.6 UJ	1.3 J	1.3 J
Arsenic	MG/KG	7 J	4.8	9.3	5.5	4.9	5.6 J	4.1 J	2.7 J
Barium	MG/KG	99.7 J	109	140	136	137	41.1 J	109	50.8 J
Beryllium	MG/KG	0.73	0.53	0.45	0.22	0.32	0.45	0.22	0.3
Cadmium	MG/KG	0.39	0.27 J	0.64	0.27 U	0.57	0.23 J	0.3 U	0.38 J
Calcium	MG/KG	6460	13100	7470	3010	10900	81400 J	9650 J	76500 J
Chromium	MG/KG	20.7 J	19.1	20.4	19.6	19	12.9 J	16.4	9.1 J
Cobalt	MG/KG	10.2 J	8.3	18.4	11.7	8.6	6.6 J	9.1	5.5 J
Copper	MG/KG	22.8 J	18.4 J	29.6	16.7	32 J	21.1 J	19.2	16
Cyanide	MG/KG								
Iron	MG/KG	23900	22200 J	27800 J	25900 J	21400 J	20800 J	20900 J	13800
Lead	MG/KG	40 J	23.1 J	73.7 J	13.7 J	69.1 J	9.4 J	16.7	6.7 J
Magnesium	MG/KG	4240 J	3880	4850	3720	4700	5190 J	4000	15500 J
Manganese	MG/KG	453 J	406 J	1240 J	762 J	613 J	245 J	479 J	282 J
Mercury	MG/KG	0.14	0.1	0.17	0.05	0.16	0.44 J	0.03 J	0.02 J
Nickel	MG/KG	28.6 J	21.7	39.2	25.2	23	21.3 J	24.6	16.4 J
Potassium	MG/KG	1240 J	944	1300	1150	1410	908 J	1130	908
Selenium	MG/KG	0.44 U	0.53 U	0.59 U	0.54 U	0.57 U	0.42 U	0.6 U	0.42 U
Silver	MG/KG	1.4	0.53 U	0.59 U	0.54 U	0.57 U	0.56	0.6 U	0.11 U
Sodium	MG/KG	89.9	220 J	63	122	382 J	130 J	323 J	161
Thallium	MG/KG	0.22 U	0.62 J	1.1 J	0.83 J	0.63 J	0.21 U	0.6 U	0.21 U
Vanadium	MG/KG	22.4 J	22.2	25.8 J	27.4	20.9	14.7 J	20.7	9.8 J
Zinc	MG/KG	228 J	71.7 J	100 J	73.2 J	181 J	70.5 J	90.9 J	33.9 J

Note(s)

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCR-A)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected; the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	FD-59-CL-3	FD-59-CL-7	FD-59-W5-6	FD-59-W5-01	FD-59-W5-05	FD-59-W5-07	FD-59-W5-8	FD-71-CL-04
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	FD-59-CL-3	FD-59-CL-7	FD-59-W5-6	FD-59-W5-01	FD-59-W5-05	FD-59-W5-07	FD-59-W5-8	FD-71-CL-04
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics									
1,1,1-Trichloroethane	UG/KG	5 U	6 U	6 U	5.7 U	5 U	5.8 U	5.7 U	5 U
1,1,2,2-Tetrachloroethane	UG/KG	5 UJ	6 U	6 U	5.7 U	5 U	5.8 U	5.7 U	5 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5 U	6 U	6 U	5.7 U	5 UJ	5.8 U	5.7 U	5 UJ
1,1,2-Trichloroethane	UG/KG	5 U	6 U	6 U	5 U	5 U	5.8 U	5.7 U	5 U
1,1-Dichloroethane	UG/KG	5 U	6 U	6 U	5.7 U	5 U	5.8 U	5.7 U	5 U
1,1-Dichloroethene	UG/KG	5 U	6 U	6 U	5.7 U	5 U	5.8 U	5.7 U	5 U
1,2,3-Trichloropropane	UG/KG				5.7 U		5.8 U	5.7 U	
1,2,4-Trichlorobenzene	UG/KG	5 UJ	6 U	6 U	5.7 U	5 U	5.8 U	5.7 U	5 UJ
1,2-Dibromo-3-chloropropane	UG/KG	5 UJ	6 U	6 U	5 U	5 U	5.8 U	5.7 U	5 UJ
1,2-Dibromoethane	UG/KG	5 U	6 U	6 U	5 U	5 U	5.8 U	5.7 U	5 U
1,2-Dichlorobenzene	UG/KG	5 UJ	6 U	6 U	5.7 U	5 U	5.8 U	5.7 U	5 UJ
1,2-Dichloroethane	UG/KG	5 U	6 U	6 U	5.7 U	5 U	5.8 U	5.7 U	5 U
1,2-Dichloroethene (total)	UG/KG								
1,2-Dichloropropane	UG/KG	5 U	6 U	6 U	5 U	5 U	5.8 U	5.7 U	5 U
1,3-Dichlorobenzene	UG/KG	5 UJ	6 U	6 U	5.7 U	5 U	5.8 U	5.7 U	5 UJ
1,3-Dichloropropane	UG/KG				5.7 U		5.8 U	5.7 U	
1,4-Dichlorobenzene	UG/KG	5 UJ	6 U	6 U	5.7 U	5 U	5.8 U	5.7 U	5 UJ
Acetone	UG/KG	10	84 NJ	45 NJ	23 U	5 U	23 U	23 U	5 U
Benzene	UG/KG	5 U	6 U	6 U	5.7 U	5 U	5.8 U	5.7 U	5 U
Bromodichloromethane	UG/KG	5 U	6 U	6 U	5 U	5 U	5.8 U	5.7 U	5 U
Bromoform	UG/KG	5 U	6 U	6 U	5 U	5 U	5.8 U	5.7 U	5 U
Carbon disulfide	UG/KG	5 U	6 U	6 U	5.7 U	5 U	5.8 U	5.7 U	5 U
Carbon tetrachloride	UG/KG	5 U	6 U	6 U	5.7 U	5 U	5.8 U	5.7 U	5 U
Chlorobenzene	UG/KG	5 U	6 U	6 U	5.7 U	5 U	5.8 U	5.7 U	5 U
Chlorodibromomethane	UG/KG	5 U	6 U	6 U	5.7 U	5 U	5.8 U	5.7 U	5 U
Chloroethane	UG/KG	5 U	6 U	6 U	11 U	5 U	12 U	11 U	5 U
Chloroform	UG/KG	5 U	6 U	6 U	5.7 U	5 U	5.8 U	5.7 U	5 U
Cis-1,2-Dichloroethene	UG/KG	5 U	6 U	6 U	5 U	5 U	5.8 U	5.7 U	5 U
Cis-1,3-Dichloropropene	UG/KG	5 U	6 U	6 U	5 U	5 U	5.8 U	5.7 U	5 U
Cyclohexane	UG/KG	5 U	6 U	6 U	5 U	5 U	5.8 U	5.7 U	5 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	FD-59-CL-3	FD-59-CL-7	FD-59-WS-6	FD-59-WS-01	FD-59-WS-05	FD-59-WS-07	FD-59-WS-8	FD-71-CL-04
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	FD-59-CL-3	FD-59-CL-7	FD-59-WS-6	FD-59-WS-01	FD-59-WS-05	FD-59-WS-07	FD-59-WS-8	FD-71-CL-04
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dichlorodifluoromethane	UG/KG	5 U	6 U	6 U		5 U			5 U
Ethyl benzene	UG/KG	5 U	6 U	6 U	3.4 J	5 U	5.8 U	5.7 U	5 U
Isopropylbenzene	UG/KG	5 U	6 U	6 U		5 U			5 U
Meta/Para Xylene	UG/KG				13 J		5.8 U	5.7 U	
Methyl Acetate	UG/KG	5 U	6 U	6 U		5 U			5 U
Methyl Tertbutyl Ether	UG/KG	5 U	6 U	6 U		5 U			5 U
Methyl bromide	UG/KG	5 U	6 U	6 U		5 U			5 U
Methyl butyl ketone	UG/KG	5 U	6 U	6 U		5 U			5 U
Methyl chloride	UG/KG	5 U	6 U	6 U		5 U			5 U
Methyl cyclohexane	UG/KG	5 U	6 U	6 U		5 U			5 U
Methyl ethyl ketone	UG/KG	5 U	14 J	4 J	11 U	5 U	12 U	11 U	5 U
Methyl isobutyl ketone	UG/KG	5 U	6 U	6 U	11 U	5 U	12 U	11 U	5 U
Methylene chloride	UG/KG	5 U	6 U	6 U	1.5 J	5 U	5.8 U	5.7 U	5 U
Ortho Xylene	UG/KG				4.3 J		5.8 U	5.7 U	
Styrene	UG/KG	5 U	6 U	6 U		5 U			5 U
Tetrachloroethene	UG/KG	5 U	6 U	6 U	5.7 U	5 U	5.8 U	2.2 J	5 U
Toluene	UG/KG	5 U	6 U	6 U	5.6 J	5 U	5.8 U	5.7 U	5 U
Total BTEX	MG/KG								
Total Xylenes	UG/KG	5 U	6 U	6 U		5 U			5 U
Trans-1,2-Dichloroethene	UG/KG	5 U	6 U	6 U	5.7 U	5 U	5.8 U	5.7 U	5 U
Trans-1,3-Dichloropropene	UG/KG	5 U	6 U	6 U		5 U			5 U
Trichloroethene	UG/KG	5 U	6 U	6 U	5.7 U	5 U	5.8 U	5.7 U	5 U
Trichlorofluoromethane	UG/KG	5 U	6 U	6 U		5 U			5 U
Vinyl chloride	UG/KG	5 U	6 U	6 U	11 U	5 U	12 U	11 U	5 U
Semivolatile Organics									
1,1'-Biphenyl	UG/KG	370 U	390 U	79 J		340 U			360 U
1,2,4-Trichlorobenzene	UG/KG								
1,2-Dichlorobenzene	UG/KG								
1,3-Dichlorobenzene	UG/KG								
1,4-Dichlorobenzene	UG/KG								
2,2'-oxybis(1-Chloropropane)	UG/KG	370 U	390 U	370 U		340 U			360 U
2,4,5-Trichlorophenol	UG/KG	920 U	970 U	920 U	380 U	870 U	3900 U	1100 U	900 U
2,4,6-Trichlorophenol	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
2,4-Dichlorophenol	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
2,4-Dimethylphenol	UG/KG	370 U	390 U	370 U		340 U			360 U
2,4-Dinitrophenol	UG/KG	920 U	970 U	920 U	1900 U	870 U	20000 U	5900 U	900 U
2,4-Dinitrotoluene	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
2,6-Dinitrotoluene	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
2-Chloronaphthalene	UG/KG	370 U	390 U	370 U		340 U			360 U
2-Chlorophenol	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
2-Methylnaphthalene	UG/KG	370 U	390 U	410	380 U	340 U	690 J	150 J	360 U
2-Methylphenol	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
2-Nitroaniline	UG/KG	920 U	970 U	920 U	1900 U	870 U	20000 U	5900 U	900 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	FD-59-CL-3	FD-59-CL-7	FD-59-WS-6	FD-59-WS-01	FD-59-WS-05	FD-59-WS-07	FD-59-WS-8	FD-71-CL-04
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	FD-59-CL-3	FD-59-CL-7	FD-59-WS-6	FD-59-WS-01	FD-59-WS-05	FD-59-WS-07	FD-59-WS-8	FD-71-CL-04
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
2-Nitrophenol	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
3,3'-Dichlorobenzidine	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
3-Nitroaniline	UG/KG	920 U	970 U	920 U	1900 U	870 U	20000 U	5900 U	900 U
4,6-Dinitro-2-methylphenol	UG/KG	920 U	970 U	920 U		870 U			900 U
4-Bromophenyl phenyl ether	UG/KG	370 U	390 U	370 U		340 U			360 U
4-Chloro-3-methylphenol	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
4-Chloroaniline	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
4-Chlorophenyl phenyl ether	UG/KG	370 U	390 U	370 U		340 U			360 U
4-Methylphenol	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
4-Nitroaniline	UG/KG	920 U	970 U	920 U		870 U			900 U
4-Nitrophenol	UG/KG	920 U	970 U	920 U	1900 U	870 U	20000 U	5900 U	900 U
Acenaphthene	UG/KG	370 U	390 U	730	380 U	340 U	5100 J	210 J	49 J
Acenaphthylene	UG/KG	370 U	390 U	1000	380 U	340 U	520 J	680 J	360 U
Acetophenone	UG/KG	370 U	390 U	370 U		340 U			360 U
Aniline	UG/KG				380 U		3900 U	1100 U	
Anthracene	UG/KG	370 U	390 U	2500 J	380 U	30 J	8200 J	810 J	59 J
Atrazine	UG/KG	370 U	390 U	370 U		340 U			360 U
Benzaldehyde	UG/KG	370 U	390 U	370 U		340 U			360 U
Benzo(a)anthracene	UG/KG	370 U	390 U	7900 NJ	76 J	71 NJ	16000 J	2500 J	140 J
Benzo(a)pyrene	UG/KG	370 U	390 U	8400 J	82 J	65 J	14000 J	2600	110 J
Benzo(h)fluoranthene	UG/KG	370 U	390 U	8600 J	72 J	86 J	12000 J	2000	130 J
Benzo(ghi)perylene	UG/KG	370 U	390 U	2300 J	49 J	34 NJ	9000 J	1800	38 J
Benzo(k)fluoranthene	UG/KG	370 U	390 U	5300 J	70 J	30 J	13000 J	2100	77 J
Benzoic Acid	UG/KG				1900 U		20000 U	5900 U	
Bis(2-Chloroethoxy)methane	UG/KG	370 U	390 U	370 U		340 U			360 U
Bis(2-Chloroethyl)ether	UG/KG	370 U	390 U	370 U		340 U			360 U
Bis(2-Chloroisopropyl)ether	UG/KG								
Bis(2-Ethylhexyl)phthalate	UG/KG	19 J	390 U	150 NJ	380 U	47 J	3900 U	1100 U	360 U
Butylbenzylphthalate	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
Caprolactam	UG/KG	370 U	390 U	370 U		340 U			360 U
Carbazole	UG/KG	370 U	390 U	380		340 U			360 U
Chrysene	UG/KG	370 U	390 U	7700 J	90 J	66 J	16000 J	2400	150 J
Di-n-butylphthalate	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
Di-n-octylphthalate	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
Dibenz(a,h)anthracene	UG/KG	370 U	390 U	1100 J	380 U	340 U	2900 J	570 J	360 U
Dibenzofuran	UG/KG	370 U	390 U	430	380 U	340 U	2800 J	160 J	360 U
Diethyl phthalate	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
Dimethylphthalate	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
Fluoranthene	UG/KG	370 U	390 U	13000 J	170 J	130 J	44000 J	4700	320 J
Fluorene	UG/KG	370 U	390 U	1200 J	380 U	340 U	5000 J	320 J	360 U
Hexachlorobenzene	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
Hexachlorobutadiene	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
Hexachlorocyclopentadiene	UG/KG	370 U	390 U	370 U		340 U			360 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	FD-59-CL-3	FD-59-CL-7	FD-59-W5-6	FD-59-WS-01	FD-59-WS-05	FD-59-WS-07	FD-59-WS-8	FD-71-CL-04
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	FD-59-CL-3	FD-59-CL-7	FD-59-W5-6	FD-59-WS-01	FD-59-WS-05	FD-59-WS-07	FD-59-WS-8	FD-71-CL-04
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	J	I	I	I	J	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Hexachloroethane	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
Indeno[1,2,3-cd]pyrene	UG/KG	370 U	390 U	2500 J	45 J	36 J	8700 J	1600 J	43 J
Isophorone	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
N-Nitrosodiphenylamine	UG/KG	370 U	390 U	370 U		340 U			360 U
N-Nitrosodipropylamine	UG/KG	370 U	390 U	370 U		340 U			360 U
Naphthalene	UG/KG	370 U	390 U	390	380 U	340 U	1700 J	210 J	360 U
Nitrobenzene	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
Pentachlorophenol	UG/KG	920 U	970 U	920 U	1900 U	870 U	20000 U	5900 U	900 U
Phenanthrene	UG/KG	370 U	390 U	6900 J	98 J	99 J	41000 J	2500	240 J
Phenol	UG/KG	370 U	390 U	370 U	380 U	340 U	3900 U	1100 U	360 U
Pyrene	UG/KG	370 U	390 U	13000 J	140 J	120 J	35000 J	4000 J	280 J
Pyridine	UG/KG		390 U		1900 U		20000 U	5900 U	
Total Unknown PAHs as SV	MG/KG								
Pesticides/PCBs									
4,4'-DDD	UG/KG	37 U	38 U	8.3 J	19 U	3.4 UJ	51 J	95 U	3.6 U
4,4'-DDE	UG/KG	37 UJ	38 U	45 J	19 U	3.4 UJ	29 J	95 U	3.6 U
4,4'-DDT	UG/KG	37 U	38 U	14 J	19 U	3.4 UJ	55 J	95 U	3.6 U
Aldrin	UG/KG	19 U	2 U	1.9 U	97 U	1.8 U	10 U	49 U	1.9 U
Alpha-BHC	UG/KG	1.9 U	2 U	1.9 U	97 U	1.8 U	10 U	49 U	1.9 U
Alpha-Chlordane	UG/KG	1.9 U	2 U	1.9 U	97 U	1.8 UJ	10 U	49 U	1.9 U
Beta-BHC	UG/KG	1.9 U	2 U	1.9 U	97 U	1.8 U	10 U	49 U	1.9 U
Delta-BHC	UG/KG	1.9 U	2 U	1.9 U	97 U	1.8 U	10 U	49 U	1.9 U
Dieldrin	UG/KG	3.7 U	3.8 U	3.7 U	19 U	3.4 U	19 U	95 U	3.6 U
Endosulfan I	UG/KG	1.9 U	2 U	1.9 U	97 U	1.8 U	10 U	49 U	1.9 U
Endosulfan II	UG/KG	3.7 U	3.8 U	3.7 U	19 U	3.4 U	19 U	95 U	3.6 U
Endosulfan sulfate	UG/KG	3.7 U	3.8 U	3.7 U	19 U	3.4 U	19 U	95 U	3.6 U
Endrin	UG/KG	3.7 U	3.8 U	3.7 U	19 U	3.4 U	19 U	95 U	3.6 U
Endrin aldehyde	UG/KG	3.7 U	3.8 U	5.5 NJ	19 U	3.4 U	19 U	95 U	3.6 U
Endrin ketone	UG/KG	3.7 U	3.8 U	12 J	19 U	3.4 U	19 U	95 U	3.6 U
Gamma-BHC/ Lindane	UG/KG	1.9 U	2 U	1.9 U	97 U	1.8 U	10 U	49 U	1.9 U
Gamma-Chlordane	UG/KG	1.9 U	2 U	1.9 U	97 U	1.8 UJ	10 U	49 U	1.9 U
Heptachlor	UG/KG	1.9 U	2 U	1.9 U	97 U	1.8 U	10 U	49 U	1.9 U
Heptachlor epoxide	UG/KG	1.9 U	2 U	1.9 U	97 U	1.8 U	10 U	49 U	1.9 U
Methoxychlor	UG/KG	19 U	20 U	19 U	97 U	18 UJ	99 U	490 U	19 U
Toxaphene	UG/KG	190 U	200 U	190 U	190 U	180 U	190 U	950 U	190 U
Aroclor-1016	UG/KG	37 U	39 U	37 U	38 U	35 U	39 U	38 U	37 U
Aroclor-1221	UG/KG	37 U	39 U	37 U	38 U	35 U	39 U	38 U	37 U
Aroclor-1232	UG/KG	37 U	39 U	37 U	38 U	35 U	39 U	38 U	37 U
Aroclor-1242	UG/KG	37 U	39 U	37 U	38 U	35 U	39 U	38 U	37 U
Aroclor-1248	UG/KG	37 U	39 U	37 U	38 U	35 U	39 U	38 U	37 U
Aroclor-1254	UG/KG	37 U	39 U	37 U	38 U	35 U	39 U	38 U	37 U
Aroclor-1260	UG/KG	37 U	39 U	37 U	38 U	35 U	39 U	38 U	37 U
Metals									

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	FD-59-CL-3	FD-59-CL-7	FD-59-W5-6	FD-59-WS-01	FD-59-WS-05	FD-59-WS-07	FD-59-WS-8	FD-71-CL-04
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	FD-59-CL-3	FD-59-CL-7	FD-59-W5-6	FD-59-WS-01	FD-59-WS-05	FD-59-WS-07	FD-59-WS-8	FD-71-CL-04
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	11200 J	11800 J	10700 J	10500	7790 J	10600	10800	7920 J
Antimony	MG/KG	1.2 J	2 J	1.7 J	3.4 UJ	1.2 J	3.5 UJ	3.4 UJ	1.1 J
Arsenic	MG/KG	6.5	3.9 J	5.8 J	4.5	4.6 J	4.4 J	4	4.8
Barium	MG/KG	118 J	71.2 J	84 J	94	45.8 J	97.8	83.3	51 J
Beryllium	MG/KG	0.58	0.56	0.55	0.22	0.38	0.36	0.28	0.4
Cadmium	MG/KG	0.26 J	0.34 J	0.49	0.28 U	0.25 J	0.36 J	0.69	0.16 J
Calcium	MG/KG	3320	1370 J	66900 J	67600	56300 J	29700	48000 J	51800 J
Chromium	MG/KG	17.4 J	15.7 J	19 J	16.3	12.4 J	17.8 J	17.1	12.6 J
Cobalt	MG/KG	9.3	8 J	9.7 J	7.9	7.4 J	9.1	9.6	7.5 J
Copper	MG/KG	21.3 J	6.5 J	27 J	20.3	20.2 J	23.6 J	24.3 J	19.4 J
Cyanide	MG/KG								
Iron	MG/KG	24000 J	19000 J	22000 J	19600	18500	20000	19200	14600
Lead	MG/KG	12.6 J	13.2 J	28.7 J	15.9 J	8.5 J	41.3 J	54 J	17.1 J
Magnesium	MG/KG	4050 J	2750 J	6880 J	8290	11000 J	5530 J	8600	10700 J
Manganese	MG/KG	453 J	225 J	443 J	445	370 J	390 J	472	405 J
Mercury	MG/KG	0.04 J	0.04	0.06	0.06	0.05 J	0.05	0.09	0.03
Nickel	MG/KG	25.1 J	14.1 J	31.9 J	24.1	20.4 J	24.4 J	23.8	21.4 J
Potassium	MG/KG	988	608 J	1230 J	1030	843 J	1150	1110	854
Selenium	MG/KG	0.4 U	0.77 J	0.38 U	0.56 U	0.36 U	1.2 UJ	0.56 U	0.42 U
Silver	MG/KG	1.5	0.67	0.24 J	0.56 U	0.43 J	0.57 U	0.56 U	0.38 J
Sodium	MG/KG	50.2	412 J	153 J	101	133 J	142 J	182 J	113
Thallium	MG/KG	0.2 U	0.22 U	0.19 U	0.56 U	0.18 U	0.9 J	0.57 J	0.21 U
Vanadium	MG/KG	21.2 J	21 J	18.8 J	17.3	12.9 J	18.3	20.1	12.6 J
Zinc	MG/KG	71.9 J	40.5 J	67.2 J	74.6 J	51.2 J	145 J	74.3 J	52.3

Note(s):

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected; the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	MW59-4	SB59-1	SB59-1	SB59-1	SB59-1	SB59-11	SB59-13	SB59-15	SB59-17
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	59055	SB59-1-08	SB59-1-04	SB59-1-06	59132	59060	59061	59131	
Sample Depth to Top of Sample ⁽¹⁾	4	6	6	10	3	6	4	8	
Sample Depth to Bottom of Sample ⁽¹⁾	6	8	8	12	5	6.9	5.3	9.2	
Sample Date	10/20/1997	2/20/1994	2/20/1994	2/20/1994	10/24/1997	10/21/1997	10/21/1997	10/23/1997	
QC Code	SA	DU	SA	SA	SA	SA	SA	DU	
Study ID	RI PHASE I STEP I	ESI	ESI	ESI	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	

Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics									
1,1,1-Trichloroethane	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
1,1,2,2-Tetrachloroethane	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG								
1,1,2-Trichloroethane	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
1,1-Dichloroethane	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
1,1-Dichloroethene	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
1,2,3-Trichloropropane	UG/KG								
1,2,4-Trichlorobenzene	UG/KG								
1,2-Dibromo-3-chloropropane	UG/KG								
1,2-Dibromoethane	UG/KG								
1,2-Dichlorobenzene	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
1,2-Dichloroethene (total)	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
1,2-Dichloropropane	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
1,3-Dichlorobenzene	UG/KG								
1,3-Dichloropropane	UG/KG								
1,4-Dichlorobenzene	UG/KG								
Acetone	UG/KG	12 U		47 U	23 U	11 U	55 U	11 U	60 U
Benzene	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Bromodichloromethane	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Bromoform	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Carbon disulfide	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Carbon tetrachloride	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Chlorobenzene	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Chlorodibromomethane	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Chloroethane	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Chloroform	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Cis-1,2-Dichloroethene	UG/KG								
Cis-1,3-Dichloropropene	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Cyclohexane	UG/KG								

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	MW59-4	SB59-1	SB59-1	SB59-1	SB59-11	SB59-13	SB59-15	SB59-17
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	59055	SB59-1-08	SB59-1-04	SB59-1-06	59132	59060	59061	59131
	Sample Depth to Top of Sample ¹¹¹	4	6	6	10	3	6	4	8
	Sample Depth to Bottom of Sample ¹¹¹	6	8	8	12	5	6.9	5.3	9.2
	Sample Date	10/20/1997	2/20/1994	2/20/1994	2/20/1994	10/24/1997	10/21/1997	10/21/1997	10/23/1997
	QC Code	SA	DU	SA	SA	SA	SA	SA	DU
	Study ID	RI PHASE 1 STEP 1	ESI	ESI	ESI	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dichlorodifluoromethane	UG/KG								
Ethyl benzene	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	14 J
Isopropylbenzene	UG/KG								
Meta/Para Xylene	UG/KG								
Methyl Acetate	UG/KG								
Methyl Tertbutyl Ether	UG/KG								
Methyl bromide	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Methyl butyl ketone	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Methyl chloride	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Methyl cyclohexane	UG/KG								
Methyl ethyl ketone	UG/KG	12 U		14 U	12 U	11 U	55 U	11 U	60 U
Methyl isobutyl ketone	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Methylene chloride	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Ortho Xylene	UG/KG								
Styrene	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Tetrachloroethene	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Toluene	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	16 J
Total BTEX	MG/KG	4					6	4.8	
Total Xylenes	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	140
Trans-1,2-Dichloroethene	UG/KG								
Trans-1,3-Dichloropropene	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Trichloroethene	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Trichlorofluoromethane	UG/KG								
Vinyl chloride	UG/KG	12 U		13 U	12 U	11 U	55 U	11 U	60 U
Semivolatile Organics									
1,1'-Biphenyl	UG/KG								
1,2,4-Trichlorobenzene	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
1,2-Dichlorobenzene	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
1,3-Dichlorobenzene	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
1,4-Dichlorobenzene	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
2,2'-oxybis(1-Chloropropane)	UG/KG		1900 U	420 U	530 U				
2,4,5-Trichlorophenol	UG/KG	190 U	4700 U	1000 U	1300 U	170 U	350 U	190 U	180 U
2,4,6-Trichlorophenol	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
2,4-Dichlorophenol	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
2,4-Dimethylphenol	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
2,4-Dinitrophenol	UG/KG	190 U	4700 U	1000 U	1300 U	170 U	350 U	190 U	180 U
2,4-Dinitrotoluene	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
2,6-Dinitrotoluene	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
2-Chloronaphthalene	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
2-Chlorophenol	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
2-Methylnaphthalene	UG/KG	78 U	150 J	110 J	78 J	70 U	93 J	77 U	18 J
2-Methylphenol	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
2-Nitraniline	UG/KG	190 U	4700 U	1000 U	1300 U	170 U	350 U	190 U	180 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	MW59-4	SB59-1	SB59-1	SB59-1	SB59-1	SB59-11	SB59-13	SB59-15	SB59-17
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	59055	SB59-1-08	SB59-1-04	SB59-1-06	59132	59060	59061	59131	
Sample Depth to Top of Sample ⁽¹⁾	4	6	6	10	3	6	4	8	
Sample Depth to Bottom of Sample ⁽¹⁾	6	8	8	12	5	6.9	5.3	9.2	
Sample Date	10/20/1997	2/20/1994	2/20/1994	2/20/1994	10/24/1997	10/21/1997	10/21/1997	10/23/1997	
QC Code	SA	DU	SA	SA	SA	SA	SA	DU	
Study ID	RI PHASE 1 STEP 1	ESI	ESI	ESI	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	

Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
2-Nitrophenol	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
3,3'-Dichlorobenzidine	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
3-Nitroaniline	UG/KG	190 U	4700 U	1000 U	1300 U	170 U	350 U	190 U	180 U
4,6-Dinitro-2-methylphenol	UG/KG	190 U	4700 U	1000 U	1300 U	170 U	350 U	190 U	180 U
4-Bromophenyl phenyl ether	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
4-Chloro-3-methylphenol	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
4-Chloroaniline	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
4-Chlorophenyl phenyl ether	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
4-Methylphenol	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
4-Nitroaniline	UG/KG	190 U	4700 U	1000 U	1300 U	170 U	350 U	190 U	180 U
4-Nitrophenol	UG/KG	190 U	4700 U	1000 U	1300 U	170 U	350 U	190 U	180 U
Acenaphthene	UG/KG	78 U	390 J	160 J	190 J	70 U	110 J	77 U	11 J
Acenaphthylene	UG/KG	78 U	640 J	120 J	97 J	70 U	140 U	77 U	75 U
Acetophenone	UG/KG								
Aniline	UG/KG								
Anthracene	UG/KG	78 U	1400 J	270 J	600	70 U	140 U	77 U	16 J
Atrazine	UG/KG								
Benzaldehyde	UG/KG								
Benzo(a)anthracene	UG/KG	78 U	5000	780	1200	3.8 J	140 U	77 U	23 J
Benzo(a)pyrene	UG/KG	78 U	5500 J	870	1100	3.6 J	140 U	77 U	18 J
Benzo(b)fluoranthene	UG/KG	78 U	5100 J	730	860	3.8 J	140 U	76 J	20 J
Benzo(g)hperylene	UG/KG	78 U	2400 J	430	560	70 U	140 U	77 U	10 J
Benzo(k)fluoranthene	UG/KG	78 U	6100 J	800	810	3.7 J	140 U	77 U	20 J
Benzoic Acid	UG/KG								
Bis(2-Chloroethoxy)methane	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
Bis(2-Chloroethyl)ether	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
Bis(2-Chloroisopropyl)ether	UG/KG	78 U				70 U	140 U	77 U	75 U
Bis(2-Ethylhexyl)phthalate	UG/KG	13 J	1900 U	80 J	260 J	16 J	38 J	17 J	15 J
Buthenylphthalate	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
Caprolactam	UG/KG								
Carbazole	UG/KG	78 U	1300 J	210 J	260 J	70 U	140 U	77 U	14 J
Chrysene	UG/KG	78 U	5100	930	1200	4.8 J	140 U	77 U	22 J
Di-n-butylphthalate	UG/KG	78 U	1900 U	30 J	29 J	9.9 J	140 U	5.4 J	5.1 J
Di-n-octylphthalate	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
Dibenz(a,h)anthracene	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	4.8 J
Dibenzofuran	UG/KG	78 U	280 J	110 J	130 J	70 U	110 J	77 U	9.1 J
Diethyl phthalate	UG/KG	5.5 J	1900 U	420 U	530 U	5.4 J	140 U	11 J	6.8 J
Dimethylphthalate	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
Fluoranthene	UG/KG	78 U	9900	1500	2600	9.4 J	140 U	4.8 J	5.5 J
Fluorene	UG/KG	78 U	730 J	200 J	280 J	70 U	260	77 U	15 J
Hexachlorobenzene	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
Hexachlorobutadiene	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
Hexachlorocyclopentadiene	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	MW59-4	SB59-1	SB59-1	SB59-1	SB59-11	SB59-13	SB59-15	SB59-17
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	59055	SB59-1-08	SB59-1-04	SB59-1-06	59132	59060	59061	59131
	Sample Depth to Top of Sample ⁽¹⁾	4	6	6	10	3	6	4	8
	Sample Depth to Bottom of Sample ⁽¹⁾	6	8	8	12	5	6.9	5.3	9.2
	Sample Date	10/20/1997	2/20/1994	2/20/1994	2/20/1994	10/24/1997	10/21/1997	10/21/1997	10/23/1997
	QC Code	SA	DU	SA	SA	SA	SA	SA	DU
	Study ID	RI PHASE I STEP 1	ESI	ESI	ESI	RI PHASE I STEP 1	RI PHASE I STEP 1	RI PHASE I STEP 1	RI PHASE I STEP 1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Hexachloromethane	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
Indeno(1,2,3-cd)pyrene	UG/KG	78 U	2200 J	400 J	590	70 U	140 U	77 U	10 J
Isophorone	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
N-Nitrosodiphenylamine	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
N-Nitrosodipropylamine	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
Naphthalene	UG/KG	78 U	140 J	160 J	110 J	70 U	69 J	77 U	23 J
Nitrobenzene	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
Pentachlorophenol	UG/KG	190 U	4700 U	1000 U	1300 U	170 UJ	350 U	190 U	180 U
Phenanthrene	UG/KG	78 U	6200	980	1800	11 J	280	4.6 J	63 J
Phenol	UG/KG	78 U	1900 U	420 U	530 U	70 U	140 U	77 U	75 U
Pyrene	UG/KG	78 U	13000	1400	2200	7.2 J	25 J	5.1 J	53 J
Pyridine	UG/KG								
Total Unknown PAHs as SV	MG/KG	0.6 U					25 J	0.6 U	
Pesticides/PCBs									
4,4'-DDD	UG/KG	3.9 U		36	11	3.5 U	3.6 U	3.8 U	3.8 U
4,4'-DDE	UG/KG	3.6 J		25	7.3 J	3.5 U	3.6 U	1.8 J	3.8 U
4,4'-DDT	UG/KG	4.4		25	21	3.5 U	3.6 U	3.8 U	3.8 U
Aldrin	UG/KG	2 U		2.2 U	2.1 U	1.8 U	1.8 U	2 U	1.9 U
Alpha-BHC	UG/KG	9.9 J		2.2 U	2.1 U	1.8 U	6.6 UJ	6.3 UJ	1.9 U
Alpha-Chlordane	UG/KG	2 U		2.2 U	2.1 U	1.8 U	1.8 U	2 U	1.9 U
Beta-BHC	UG/KG	3.4 J		2.2 U	2.1 U	1.8 U	2.6 J	2.4 J	1.9 U
Delta-BHC	UG/KG	1.2 J		2.2 U	2.1 U	1.8 U	0.95 J	2 U	1.9 U
Dieldrin	UG/KG	3.9 U		4.2 U	4 U	3.5 U	3.6 U	3.8 U	3.8 U
Endosulfan I	UG/KG	2 U		2.2 U	2.1 U	1.8 U	1.8 U	2 U	1.9 U
Endosulfan II	UG/KG	3.9 U		4.2 U	4 U	3.5 U	3.6 U	3.8 U	3.8 U
Endosulfan sulfate	UG/KG	3.9 U		4.2 U	4 U	3.5 U	3.6 U	3.8 U	3.8 U
Endrin	UG/KG	3.9 U		4.2 U	4 U	3.5 U	3.6 U	3.8 U	3.8 U
Endrin aldehyde	UG/KG	3.9 U		4.2 U	3.9 J	3.5 U	3.6 U	3.8 U	3.8 U
Endrin ketone	UG/KG	3.9 U		4.2 U	4 U	3.5 U	3.6 U	3.8 U	3.8 U
Gamma-BHC/Lindane	UG/KG	2.6 U		2.2 U	2.1 U	1.8 U	2 UJ	1.9 UJ	1.9 U
Gamma-Chlordane	UG/KG	2 U		2.2 U	2.1 U	1.8 U	1.8 U	2 U	1.9 U
Heptachlor	UG/KG	2 U		2.2 U	2.1 U	1.8 U	1.8 U	2 U	1.9 U
Heptachlor epoxide	UG/KG	2 U		2.2 U	2.1 U	1.8 U	1.8 U	2 U	1.9 U
Methoxychlor	UG/KG	20 U		22 U	21 U	18 U	18 U	20 U	19 U
Toxaphene	UG/KG	200 U		220 U	210 U	180 U	180 U	200 U	190 U
Aroclor-1016	UG/KG	39 U		42 U	40 U	35 U	36 U	38 U	38 U
Aroclor-1221	UG/KG	80 U		86 U	81 U	71 U	73 U	78 U	76 U
Aroclor-1232	UG/KG	39 U		42 U	40 U	35 U	36 U	38 U	38 U
Aroclor-1242	UG/KG	39 U		42 U	40 U	35 U	36 U	38 U	38 U
Aroclor-1248	UG/KG	39 U		42 U	40 U	35 U	36 U	38 U	38 U
Aroclor-1254	UG/KG	39 U		42 U	40 U	35 U	36 U	38 U	38 U
Aroclor-1260	UG/KG	39 U		42 U	40 U	35 U	36 U	38 U	38 U
Metals									

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Facility Location ID	SEAD-59 MW59-4	SEAD-59 SB59-1	SEAD-59 SB59-1	SEAD-59 SB59-1	SEAD-59 SB59-11	SEAD-59 SB59-13	SEAD-59 SB59-15	SEAD-59 SB59-17
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	59055	SB59-1-08	SB59-1-04	SB59-1-06	59132	59060	59061	59131
Sample Depth to Top of Sample ⁽¹⁾	4	6	6	10	3	6	4	8
Sample Depth to Bottom of Sample ⁽¹⁾	6	8	8	12	5	6.9	5.3	9.2
Sample Date	10/20/1997	2/20/1994	2/20/1994	2/20/1994	10/24/1997	10/21/1997	10/21/1997	10/23/1997
QC Code	SA	DU	SA	SA	SA	SA	SA	DU
Study ID	RI PHASE 1 STEP 1	ESI	ESI	ESI	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1

Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	10700		13000 J	11800 J	7740	11100	7450	6390
Antimony	MG/KG	0.58 UJ		0.74 J	0.24 J	0.61 UJ	0.6 UJ	0.64 UJ	0.62 UJ
Arsenic	MG/KG	4.8		4.4 J	3.8 J	4.1	5.7	3.9	3.5
Barium	MG/KG	49.7		108 J	75.7 J	43.7	52	52.7	40
Beryllium	MG/KG	0.39		0.58 J	0.48 J	0.24	0.27	0.23	0.21
Cadmium	MG/KG	0.08 U		0.37 J	0.1 J	0.08 U	0.08 U	0.09 U	0.09 U
Calcium	MG/KG	2060		83700 J	37400 J	72200	33900	123000	88500
Chromium	MG/KG	18.5		18.4 J	18.1 J	13	18.6	12.7	10.2
Cobalt	MG/KG	11.4		7.1 J	8.6 J	8.1	14.2	8.1	7.3
Copper	MG/KG	12.5		32.9 J	23.5 J	19.7	21	19.1	17.6
Cyanide	MG/KG	0.62 UJ		0.63 U	0.59 U	0.56 UJ	0.58 UJ	0.58 UJ	0.59 UJ
Iron	MG/KG	25300		18300 J	20500 J	18400	28900	16900	14800
Lead	MG/KG	15.7		38.4 J	10.6 J	9.6	8.7	8.3	6.6
Magnesium	MG/KG	4390		8610 J	14500 J	13600	7990	14900	14800
Manganese	MG/KG	376		418 J	329 J	356	576	469	391
Mercury	MG/KG	0.04 U		0.16 J	0.03 J	0.04 U	0.05 U	0.06 U	0.05 U
Nickel	MG/KG	29.7		23 J	27.9 J	23.2	35.5	23.8	19.8
Potassium	MG/KG	1110		2290 J	2520 J	1000	1060	1160	1230
Selenium	MG/KG	0.8 U		1 J	0.42 J	0.84 U	0.83 U	0.89 U	0.86 U
Silver	MG/KG	0.22 U		0.15 U	0.12 U	0.23 U	0.23 U	0.24 U	0.24 U
Sodium	MG/KG	98		353 J	164 J	127	112	817	105
Thallium	MG/KG	0.82 UJ		0.27 U	0.22 U	0.86 UJ	0.85 UJ	0.91 UJ	0.88 UJ
Vanadium	MG/KG	14.8		24.8 J	22 J	12.6	15	12.9	12.3
Zinc	MG/KG	133		116 J	69.7 J	80.5	60.5	67.1	64.7

Note(s)

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected; the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	SB59-17	SB59-18	SB59-2	SB59-2
Matrix	SOIL	SOIL	SOIL	SOIL
Sample ID	59068	59127	SB59-2-02	SB59-2-04
Sample Depth to Top of Sample ⁽¹⁾	8	10	2	6
Sample Depth to Bottom of Sample ⁽¹⁾	9.2	11	4	7
Sample Date	10/23/1997	10/24/1997	5/26/1994	5/26/1994
QC Code	SA	SA	SA	SA
Study ID	RI PHASE I STEP I	RI PHASE I STEP I	ESI	ESI

Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics					
1,1,1-Trichloroethane	UG/KG	11 U	11 U	12 U	12 U
1,1,2,2-Tetrachloroethane	UG/KG	11 U	11 U	12 U	12 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG				
1,1,2-Trichloroethane	UG/KG	11 U	11 U	12 U	12 U
1,1-Dichloroethane	UG/KG	11 U	11 U	12 U	12 U
1,1-Dichloroethene	UG/KG	11 U	11 U	12 U	12 U
1,2,3-Trichloropropane	UG/KG				
1,2,4-Trichlorobenzene	UG/KG				
1,2-Dibromo-3-chloropropane	UG/KG				
1,2-Dibromoethane	UG/KG				
1,2-Dichlorobenzene	UG/KG				
1,2-Dichloroethane	UG/KG	11 U	11 U	12 U	12 U
1,2-Dichloroethene (total)	UG/KG	11 U	11 U	12 U	12 U
1,2-Dichloropropane	UG/KG	11 U	11 U	12 U	12 U
1,3-Dichlorobenzene	UG/KG				
1,3-Dichloropropane	UG/KG				
1,4-Dichlorobenzene	UG/KG				
Acetone	UG/KG	11 U	11 U	45 U	23 U
Benzene	UG/KG	11 U	11 U	12 U	12 U
Bromodichloromethane	UG/KG	11 U	11 U	12 U	12 U
Bromoform	UG/KG	11 U	11 U	12 U	12 U
Carbon disulfide	UG/KG	11 U	11 U	12 U	12 U
Carbon tetrachloride	UG/KG	11 U	11 U	12 U	12 U
Chlorobenzene	UG/KG	11 U	11 U	12 U	12 U
Chlorodibromomethane	UG/KG	11 U	11 U	12 U	12 U
Chloroethane	UG/KG	11 U	11 U	12 U	12 U
Chloroform	UG/KG	11 U	11 U	12 U	12 U
Cis-1,2-Dichloroethene	UG/KG				
Cis-1,3-Dichloropropene	UG/KG	11 U	11 U	12 U	12 U
Cyclohexane	UG/KG				

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	SB59-17	SB59-18	SB59-2	SB59-2
Matrix	SOIL	SOIL	SOIL	SOIL
Sample ID	59068	59127	SB59-2-02	SB59-2-04
Sample Depth to Top of Sample ⁽¹⁾	8	10	2	6
Sample Depth to Bottom of Sample ⁽¹⁾	9.2	11	4	7
Sample Date	10/23/1997	10/24/1997	5/26/1994	5/26/1994
QC Code	SA	SA	SA	SA
Study ID	RI PHASE I STEP 1	RI PHASE I STEP 1	ESI	ESI

Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dichlorodifluoromethane	UG/KG				
Ethyl benzene	UG/KG	11 U	11 U	12 U	12 U
Isopropylbenzene	UG/KG				
Meta/Para Xylene	UG/KG				
Methyl Acetate	UG/KG				
Methyl Tertbutyl Ether	UG/KG				
Methyl bromide	UG/KG	11 U	11 U	12 U	12 U
Methyl butyl ketone	UG/KG	11 U	11 U	12 U	12 U
Methyl chloride	UG/KG	11 U	11 U	12 U	12 U
Methyl cyclohexane	UG/KG				
Methyl ethyl ketone	UG/KG	11 U	11 U	12 U	12 U
Methyl isobutyl ketone	UG/KG	11 U	11 U	12 U	12 U
Methylene chloride	UG/KG	11 U	11 U	12 U	12 U
Ortho Xylene	UG/KG				
Styrene	UG/KG	11 U	11 U	12 U	12 U
Tetrachloroethene	UG/KG	11 U	11 U	12 U	12 U
Toluene	UG/KG	11 U	11 U	12 U	12 U
Total BTEX	MG/KG	5.2	4.8		
Total Xylenes	UG/KG	11 U	11 U	12 U	12 U
Trans-1,2-Dichloroethene	UG/KG				
Trans-1,3-Dichloropropene	UG/KG	11 U	11 U	12 U	12 U
Trichloroethene	UG/KG	11 U	11 U	12 U	12 U
Trichlorofluoromethane	UG/KG				
Vinyl chloride	UG/KG	11 U	11 U	12 U	12 U
Semi-volatile Organics					
1,1'-Biphenyl	UG/KG				
1,2,4-Trichlorobenzene	UG/KG	75 U	380 U	820 U	390 U
1,2-Dichlorobenzene	UG/KG	75 U	380 U	820 U	390 U
1,3-Dichlorobenzene	UG/KG	75 U	380 U	820 U	390 U
1,4-Dichlorobenzene	UG/KG	75 U	380 U	820 U	390 U
2,2'-oxybis(1-Chloropropane)	UG/KG			820 U	390 U
2,4,5-Trichlorophenol	UG/KG	180 U	910 U	2000 U	940 U
2,4,6-Trichlorophenol	UG/KG	75 U	380 U	820 U	390 U
2,4-Dichlorophenol	UG/KG	75 U	380 U	820 U	390 U
2,4-Dimethylphenol	UG/KG	75 U	380 U	820 U	390 U
2,4-Dinitrophenol	UG/KG	180 U	910 U	2000 U	940 U
2,4-Dinitrotoluene	UG/KG	75 U	380 U	820 U	390 U
2,6-Dinitrotoluene	UG/KG	75 U	380 U	820 U	390 U
2-Chloronaphthalene	UG/KG	75 U	380 U	820 U	390 U
2-Chlorophenol	UG/KG	75 U	380 U	820 U	390 U
2-Methylnaphthalene	UG/KG	22 J	250 J	160 J	150 J
2-Methylphenol	UG/KG	75 U	380 U	820 U	390 U
2-Nitroaniline	UG/KG	180 U	910 U	2000 U	940 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	SB59-17	SB59-18	SB59-2	SB59-2
Matrix	SOIL	SOIL	SOIL	SOIL
Sample ID	59068	59127	SB59-2-02	SB59-2-04
Sample Depth to Top of Sample ^{U1}	8	10	2	6
Sample Depth to Bottom of Sample ^{U1}	9.2	11	4	7
Sample Date	10/23/1997	10/24/1997	5/26/1994	5/26/1994
QC Code	SA	SA	SA	SA
Study ID	RI PHASE I STEP 1	RI PHASE I STEP 1	ESI	ESI

Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)
2-Nitrophenol	UG/KG	75 U	380 U	820 U	390 U
3,3'-Dichlorobenzidine	UG/KG	75 U	380 U	820 U	390 U
3-Nitroaniline	UG/KG	180 U	910 U	2000 U	940 U
4,6-Dinitro-2-methylphenol	UG/KG	180 U	910 U	2000 U	940 U
4-Bromophenyl phenyl ether	UG/KG	75 U	380 U	820 U	390 U
4-Chloro-3-methylphenol	UG/KG	75 U	380 U	820 U	390 U
4-Chloroaniline	UG/KG	75 U	380 U	820 U	390 U
4-Chlorophenyl phenyl ether	UG/KG	75 U	380 U	820 U	390 U
4-Methylphenol	UG/KG	75 U	380 U	820 U	28 J
4-Nitroaniline	UG/KG	180 U	910 U	2000 U	940 U
4-Nitrophenol	UG/KG	180 U	910 U	2000 U	940 U
Acenaphthene	UG/KG	16 J	180 J	230 J	100 J
Acenaphthylene	UG/KG	4.6 J	41 J	100 J	23 J
Acetophenone	UG/KG				
Aniline	UG/KG				
Anthracene	UG/KG	35 J	380	440 J	160 J
Atrazine	UG/KG				
Benzaldehyde	UG/KG				
Benzo(a)anthracene	UG/KG	71 J	620	1600	260 J
Benzo(a)pyrene	UG/KG	54 J	570	1500	250 J
Benzo(b)fluoranthene	UG/KG	56 J	920	3100 J	290 J
Benzo(ghi)perylene	UG/KG	35 J	320 J	740 J	130 J
Benzo(k)fluoranthene	UG/KG	66 J	380 U	820 U	270 J
Benzoic Acid	UG/KG				
Bis(2-Chloroethoxy)methane	UG/KG	75 U	380 U	820 U	390 U
Bis(2-Chloroethyl)ether	UG/KG	75 U	380 U	820 U	390 U
Bis(2-Chloroisopropyl)ether	UG/KG	75 U	380 U		
Bis(2-Ethylhexyl)phthalate	UG/KG	26 J	380 U	72 J	35 J
Butylbenzylphthalate	UG/KG	75 U	380 U	820 U	390 U
Caprolactam	UG/KG				
Carbazole	UG/KG	29 J	370 J	220 J	64 J
Chrysene	UG/KG	72 J	600	1500	270 J
Di-n-butylphthalate	UG/KG	5 J	380 U	820 U	390 U
Di-n-octylphthalate	UG/KG	75 U	380 U	820 U	390 U
Dibenz(a,h)anthracene	UG/KG	13 J	150 J	470 J	84 J
Dibenzofuran	UG/KG	16 J	280 J	820 U	82 J
Diethyl phthalate	UG/KG	8.5 J	380 U	820 U	390 U
Dimethylphthalate	UG/KG	75 U	380 U	820 U	390 U
Fluoranthene	UG/KG	170	1500	3200	750
Fluorene	UG/KG	34 J	530	380 J	160 J
Hexachlorobenzene	UG/KG	75 U	380 U	820 U	390 U
Hexachlorobutadiene	UG/KG	75 U	380 U	820 U	390 U
Hexachlorocyclopentadiene	UG/KG	75 U	380 U	820 U	390 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	SB59-17	SB59-18	SB59-2	SB59-2
Matrix	SOIL	SOIL	SOIL	SOIL
Sample ID	59068	59127	SB59-2-02	SB59-2-04
Sample Depth to Top of Sample ⁽¹⁾	8	10	2	6
Sample Depth to Bottom of Sample ⁽¹⁾	9.2	11	4	7
Sample Date	10/23/1997	10/24/1997	5/26/1994	5/26/1994
QC Code	SA	SA	SA	SA
Study ID	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	ESI	ESI

Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Hexachloroethane	UG/KG	75 U	380 U	820 U	390 U
Indeno[1,2,3-cd]pyrene	UG/KG	33 J	300 J	940	130 J
Isophorone	UG/KG	75 U	380 U	820 U	390 U
N-Nitrosodiphenylamine	UG/KG	75 U	380 U	820 U	390 U
N-Nitrosodipropylamine	UG/KG	75 U	380 U	820 U	390 U
Naphthalene	UG/KG	20 J	750	170 J	160 J
Nitrobenzene	UG/KG	75 U	380 U	820 U	390 U
Pentachlorophenol	UG/KG	180 U	910 U	2000 U	940 U
Phenanthrene	UG/KG	180	1900	1800	620
Phenol	UG/KG	75 U	380 U	820 U	390 U
Pyrene	UG/KG	170	1300	3200	510
Pyridine	UG/KG				
Total Unknown PAHs as SV	MG/KG	0.6 U	25 J		
Pesticides/PCBs					
4,4'-DDD	UG/KG	3.8 U	12 U	48 J	5.4 J
4,4'-DDE	UG/KG	3.8 U	8.2 U	81 J	8.2 J
4,4'-DDT	UG/KG	3.8 U	11 U	16 J	3.9 UJ
Aldrin	UG/KG	1.9 U	1.9 U	1.2 J	2 UJ
Alpha-BHC	UG/KG	1.9 U	1.9 U	2.1 UJ	2 UJ
Alpha-Chlordane	UG/KG	1.9 U	1.9 U	5.2 J	2 UJ
Beta-BHC	UG/KG	1.9 U	1.9 U	2.1 UJ	2 UJ
Delta-BHC	UG/KG	1.9 U	1.9 U	2.1 UJ	2 UJ
Dieldrin	UG/KG	3.8 U	3.8 U	4.1 UJ	3.9 UJ
Endosulfan I	UG/KG	1.9 U	1.9 U	16 J	4.1 J
Endosulfan II	UG/KG	3.8 U	3.8 U	4.1 UJ	3.9 UJ
Endosulfan sulfate	UG/KG	3.8 U	3.8 U	4.1 UJ	3.9 UJ
Endrin	UG/KG	3.8 U	3.8 U	4.1 UJ	3.9 UJ
Endrin aldehyde	UG/KG	3.8 U	3.8 U	4.1 UJ	3.9 UJ
Endrin ketone	UG/KG	3.8 U	3.8 U	4.1 UJ	3.9 UJ
Gamma-BHC/Lindane	UG/KG	1.9 U	1.9 U	2.1 UJ	2 UJ
Gamma-Chlordane	UG/KG	1.9 U	1.9 U	2.1 UJ	2 UJ
Heptachlor	UG/KG	1.9 U	1.9 U	2.1 UJ	2 UJ
Heptachlor epoxide	UG/KG	1.9 U	1.9 U	2.1 UJ	2 UJ
Methoxychlor	UG/KG	1.9 U	1.9 U	21 UJ	20 UJ
Toxaphene	UG/KG	190 U	190 U	210 UJ	200 UJ
Aroclor-1016	UG/KG	38 U	38 U	41 UJ	39 UJ
Aroclor-1221	UG/KG	76 U	76 U	84 UJ	79 UJ
Aroclor-1232	UG/KG	38 U	38 U	41 UJ	39 UJ
Aroclor-1242	UG/KG	38 U	38 U	41 UJ	39 UJ
Aroclor-1248	UG/KG	38 U	38 U	41 UJ	39 UJ
Aroclor-1254	UG/KG	38 U	38 U	41 UJ	39 UJ
Aroclor-1260	UG/KG	38 U	38 U	41 UJ	39 UJ
Metals					

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	SB59-17	SB59-18	SB59-2	SB59-2
Matrix	SOIL	SOIL	SOIL	SOIL
Sample ID	59068	59127	SB59-2-02	SB59-2-04
Sample Depth to Top of Sample ⁽¹⁾	8	10	2	6
Sample Depth to Bottom of Sample ⁽¹⁾	9.2	11	4	7
Sample Date	10/23/1997	10/24/1997	5/26/1994	5/26/1994
QC Code	SA	SA	SA	SA
Study ID	RI PHASE I STEP 1	RI PHASE I STEP 1	ESI	ESI

Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	5400	9660	12500	9340
Antimony	MG/KG	0.55 UJ	0.64 UJ	0.84 J	0.26 J
Arsenic	MG/KG	2.9	3	6	3.8
Barium	MG/KG	35.8	71.7	93.4	66
Beryllium	MG/KG	0.16	0.32	0.67 J	0.42 J
Cadmium	MG/KG	0.08 U	0.09 U	0.9 J	0.41 J
Calcium	MG/KG	101000	95900	44500	65800
Chromium	MG/KG	9	14.2	21.1	15.5
Cobalt	MG/KG	5.9	7.1	11.7	9.1
Copper	MG/KG	17.4	18.6	28.1	19.7
Cyanide	MG/KG	0.61 UJ	0.58 UJ	0.56 U	0.59 U
Iron	MG/KG	12300	16500	24600	20900
Lead	MG/KG	5.9	19.6	50.3	12.9
Magnesium	MG/KG	14200	17200	8540	9190
Manganese	MG/KG	334	378	664	836
Mercury	MG/KG	0.05 U	0.07	0.08 J	0.04 J
Nickel	MG/KG	17.1	20.9	31.8	24.7
Potassium	MG/KG	936	1940	1690 J	1280 J
Selenium	MG/KG	0.76 U	0.88 U	1.3	0.49 J
Silver	MG/KG	0.21 U	0.24 U	0.32 J	0.08 UJ
Sodium	MG/KG	152	258	168 J	148 J
Thallium	MG/KG	0.77 UJ	0.9 UJ	0.4 U	0.29 U
Vanadium	MG/KG	9.9	19.1	24.2	16.4
Zinc	MG/KG	51.1	50	115	75.5

Note(s):

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis

U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected; the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	SB59-20	SB59-20	SB59-21	SB59-3	SB59-4	SB59-4	SB59-5	SB59-5
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	59107	59066	59067	SB59-3-04	SB59-4-05	SB59-4-10	SB59-5-03	SB59-5-06
	Sample Depth to Top of Sample ⁽¹⁾	4	4	0	6	8	10	4	10
	Sample Depth to Bottom of Sample ⁽¹⁾	4.5	4.5	1.1	8	10	20	6	12
	Sample Date	10/22/1997	10/22/1997	10/22/1997	5/25/1994	5/25/1994	5/25/1994	5/25/1994	5/25/1994
	QC Code	DU	SA	SA	SA	SA	SA	SA	SA
	Study ID	RI PHASE I STEP 1	RI PHASE I STEP 1	RI PHASE I STEP 1	ESI	ESI	ESI	ESI	ESI
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics									
1,1,1-Trichloroethane	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
1,1,2,2-Tetrachloroethane	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
1,1,2-Trichloro-1,2,2-Trifluoromethane	UG/KG								
1,1,2-Trichloroethane	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
1,1-Dichloroethane	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
1,1-Dichloroethane	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
1,2,3-Trichloropropane	UG/KG								
1,2,4-Trichlorobenzene	UG/KG								
1,2-Dibromo-1-chloropropane	UG/KG								
1,2-Dibromoethane	UG/KG								
1,2-Dichlorobenzene	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
1,2-Dichloroethane	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
1,2-Dichloroethane (total)	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
1,2-Dichloropropane	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
1,3-Dichlorobenzene	UG/KG								
1,3-Dichloropropane	UG/KG								
1,4-Dichlorobenzene	UG/KG								
Acetone	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Benzene	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Bromodichloromethane	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Bromoform	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Carbon disulfide	UG/KG		11 U	12 U	11 U	4 J	11 U	11 U	11 U
Carbon tetrachloride	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Chlorobenzene	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Chlorodibromomethane	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Chloroethane	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Chloroform	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Cis-1,2-Dichloroethene	UG/KG								
Cis-1,3-Dichloropropene	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Cyclohexane	UG/KG								
Dichlorodifluoromethane	UG/KG								
Ethyl benzene	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	SB59-20	SB59-20	SB59-21	SB59-3	SB59-4	SB59-4	SB59-5	SB59-5
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	59107	59066	59067	SB59-3-04	SB59-4-05	SB59-4-10	SB59-5-03	SB59-5-06
	Sample Depth to Top of Sample ⁽¹⁾	4	4	0	6	8	10	4	10
	Sample Depth to Bottom of Sample ⁽¹⁾	4.5	4.5	1.1	8	10	20	6	12
	Sample Date	10/22/1997	10/22/1997	10/22/1997	5/25/1994	5/25/1994	5/25/1994	5/25/1994	5/25/1994
	QC Code	DU	SA	SA	SA	SA	SA	SA	SA
	Study ID	RI PHASE I STEP 1	RI PHASE I STEP 1	RI PHASE I STEP 1	ESI	ESI	ESI	ESI	ESI
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isopropylbenzene	UG/KG								
Meta/Para Xylene	UG/KG								
Methyl Acetate	UG/KG								
Methyl Tertbutyl Ether	UG/KG								
Methyl bromide	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Methyl butyl ketone	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Methyl chloride	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Methyl cyclohexane	UG/KG								
Methyl ethyl ketone	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Methyl isobutyl ketone	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Methylene chloride	UG/KG		11 U	12 U	11 U	2 J	11 U	11 U	11 U
Ortho Xylene	UG/KG								
Styrene	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Tetrachloroethene	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Toluene	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Total BTEX	MG/KG	2.5 U	4	6.5					
Total Xylenes	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Trans-1,2-Dichloroethene	UG/KG								
Trans-1,3-Dichloropropane	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Trichloroethene	UG/KG		11 U	12 U	11 U	18 U	11 U	1 J	11 U
Trichlorofluoromethane	UG/KG								
Vinyl chloride	UG/KG		11 U	12 U	11 U	18 U	11 U	11 U	11 U
Semivolatile Organics									
1,1'-Biphenyl	UG/KG								
1,2,4-Trichlorobenzene	UG/KG		66 U	66 U	360 U	420 U	360 U	370 U	380 U
1,2-Dichlorobenzene	UG/KG		66 U	66 U	360 U	420 U	360 U	370 U	380 U
1,3-Dichlorobenzene	UG/KG		66 U	66 U	360 U	420 U	360 U	370 U	380 U
1,4-Dichlorobenzene	UG/KG		66 U	66 U	360 U	420 U	360 U	370 U	380 U
2,2'-oxybis(1-Chloropropane)	UG/KG				360 U	420 U	360 U	370 U	380 U
2,4,5-Trichlorophenol	UG/KG		160 U	160 U	880 U	1000 U	870 U	910 U	920 U
2,4,6-Trichlorophenol	UG/KG		66 U	66 U	360 U	420 U	360 U	370 U	380 U
2,4-Dichlorophenol	UG/KG		66 U	66 U	360 U	420 U	360 U	370 U	380 U
2,4-Dimethylphenol	UG/KG		66 U	66 U	360 U	420 U	360 U	370 U	380 U
2,4-Dinitrophenol	UG/KG		160 U	160 U	880 U	1000 U	870 U	910 U	920 U
2,4-Dinitrotoluene	UG/KG		66 U	66 U	360 U	420 U	360 U	370 U	380 U
2,6-Dinitrotoluene	UG/KG		66 U	66 U	360 U	420 U	360 U	370 U	380 U
2-Chloronaphthalene	UG/KG		66 U	66 U	360 U	420 U	360 U	370 U	380 U
2-Chlorophenol	UG/KG		66 U	66 U	360 U	420 U	360 U	370 U	380 U
2-Methylnaphthalene	UG/KG		14 J	66 U	360 U	37 J	360 U	45 J	380 U
2-Methylphenol	UG/KG		66 U	66 U	360 U	420 U	360 U	370 U	380 U
2-Nitroaniline	UG/KG		160 U	160 U	880 U	1000 U	870 U	910 U	920 U
2-Nitrophenol	UG/KG		66 U	66 U	360 U	420 U	360 U	370 U	380 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	SB59-20	SB59-20	SB59-21	SB59-3	SB59-4	SB59-4	SB59-4	SB59-5	SB59-5
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	59107	59066	59067	SB59-3-04	SB59-4-05	SB59-4-10	SB59-5-03	SB59-5-06	
Sample Depth to Top of Sample (1)	4	4	0	6	8	10	4	10	
Sample Depth to Bottom of Sample (1)	4.5	4.5	1.1	8	10	20	6	12	
Sample Date	10/22/1997	10/22/1997	10/22/1997	5/25/1994	5/25/1994	5/25/1994	5/25/1994	5/25/1994	5/25/1994
QC Code	DU	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	ESI	ESI	ESI	ESI	ESI	ESI

Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
3,3'-Dichlorobenzidine	UG/KG	66 UJ	66 UJ	66 UJ	360 UJ	420 UJ	360 UJ	370 UJ	380 UJ
3-Nitroaniline	UG/KG	160 UJ	160 UJ	160 UJ	880 UJ	1000 UJ	870 UJ	910 UJ	920 UJ
4,6-Dinitro-2-methylphenol	UG/KG	160 UJ	160 UJ	160 UJ	880 UJ	1000 UJ	870 UJ	910 UJ	920 UJ
4-Bromophenyl phenyl ether	UG/KG	66 U	66 U	66 U	360 U	420 U	360 U	370 U	380 U
4-Chloro-3-methylphenol	UG/KG	66 U	66 U	66 U	360 U	420 U	360 U	370 U	380 U
4-Chloroaniline	UG/KG	66 UJ	66 UJ	66 UJ	360 UJ	420 UJ	360 UJ	370 UJ	380 UJ
4-Chlorophenyl phenyl ether	UG/KG	66 U	66 U	66 U	360 U	420 U	360 U	370 U	380 U
4-Methylphenol	UG/KG	66 U	66 U	66 U	360 U	420 U	360 U	370 U	380 U
4-Nitroaniline	UG/KG	160 UJ	160 UJ	160 UJ	880 UJ	1000 UJ	870 UJ	910 UJ	920 UJ
4-Nitrophenol	UG/KG	160 UJ	160 UJ	160 UJ	880 UJ	1000 UJ	870 UJ	910 UJ	920 UJ
Acenaphthene	UG/KG	61 J	66 U	66 U	360 U	93 J	360 U	44 J	380 U
Acenaphthylene	UG/KG	66 U	66 U	66 U	360 U	52 J	360 U	190 J	380 U
Acetophenone	UG/KG								
Aniline	UG/KG								
Anthracene	UG/KG	84 J	66 U	66 U	360 U	250 J	360 U	410 J	380 U
Atrazine	UG/KG								
Benzaldehyde	UG/KG								
Benzo(a)anthracene	UG/KG	20 J	96 J	96 J	360 U	740	360 U	1400	380 U
Benzo(a)pyrene	UG/KG	22 J	81 J	81 J	360 U	360 J	360 U	1200 J	380 U
Benzo(b)fluoranthene	UG/KG	19 J	15 J	15 J	360 U	730	360 U	1100 J	380 U
Benzo(ghi)perylene	UG/KG	22 J	11 J	11 J	360 U	420 U	360 U	150 J	380 U
Benzo(k)fluoranthene	UG/KG	20 J	12 J	12 J	360 U	590	360 U	870 J	380 U
Benzoic Acid	UG/KG								
Bis(2-Chloroethoxy)methane	UG/KG	66 U	66 U	66 U	360 U	420 U	360 U	370 U	380 U
Bis(2-Chloroethyl)ether	UG/KG	66 U	66 U	66 U	360 U	420 U	360 U	370 U	380 U
Bis(2-Chloroisopropyl)ether	UG/KG	66 U	66 U	66 U	360 U	420 U	360 U	370 U	380 U
Bis(2-Ethylhexyl)phthalate	UG/KG	16 J	21 J	21 J	360 U	420 U	360 U	370 U	380 U
Butylbenzylphthalate	UG/KG	66 U	66 U	66 U	360 U	420 U	360 U	370 U	380 U
Caprolactam	UG/KG								
Carbazole	UG/KG	11 J	66 J	66 J	360 U	160 J	360 U	370 U	380 U
Chrysene	UG/KG	25 J	14 J	14 J	360 U	820	360 U	1400	380 U
Di-n-butylphthalate	UG/KG	55 J	48 J	48 J	360 U	120 J	360 U	370 U	380 U
Di-n-octylphthalate	UG/KG	66 U	66 U	66 U	360 U	420 U	360 U	370 U	380 U
Dibenz(a,h)anthracene	UG/KG	47 J	66 U	66 U	360 U	160 J	360 U	300 J	380 U
Dibenzofuran	UG/KG	56 J	66 U	66 U	360 U	64 J	360 U	28 J	380 U
Diethyl phthalate	UG/KG	10 J	81 J	81 J	360 U	420 U	360 U	370 U	380 U
Dimethylphthalate	UG/KG	66 U	66 U	66 U	360 U	420 U	360 U	370 U	380 U
Fluoranthene	UG/KG	54 J	28 J	28 J	360 U	1900	19 J	2300 J	380 U
Fluorene	UG/KG	86 J	66 U	66 U	360 U	100 J	360 U	90 J	380 U
Hexachlorobenzene	UG/KG	66 U	66 U	66 U	360 U	420 U	360 U	370 U	380 U
Hexachlorobutadiene	UG/KG	66 U	66 U	66 U	360 U	420 U	360 U	370 U	380 U
Hexachlorocyclopentadiene	UG/KG	66 U	66 U	66 U	360 U	420 U	360 U	370 U	380 U
Hexachloroethane	UG/KG	66 U	66 U	66 U	360 U	420 U	360 U	370 U	380 U
Indeno(1,2,3-cd)pyrene	UG/KG	14 J	96 J	96 J	360 U	300 J	360 U	570 J	380 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	SB59-20	SB59-20	SB59-21	SB59-3	SB59-4	SB59-4	SB59-4	SB59-5	SB59-5
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	59107	59066	59067	SB59-3-04	SB59-4-05	SB59-4-10	SB59-5-03	SB59-5-06	SB59-5-06
Sample Depth to Top of Sample ⁽¹⁾	4	4	0	6	8	10	4	10	10
Sample Depth to Bottom of Sample ⁽¹⁾	4.5	4.5	1.1	8	10	20	6	12	12
Sample Date	10/22/1997	10/22/1997	10/22/1997	5/25/1994	5/25/1994	5/25/1994	5/25/1994	5/25/1994	5/25/1994
QC Code	DU	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	ESI	ESI	ESI	ESI	ESI	ESI
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isophrone	UG/KG		66 U	66 U	360 U	420 U	360 U	370 U	380 U
N-Nitrosodiphenylamine	UG/KG		66 U	66 U	360 U	420 U	360 U	370 U	380 U
N-Nitrosodipropylamine	UG/KG		66 U	66 U	360 U	420 U	360 U	370 U	380 U
Naphthalene	UG/KG		19 J	66 U	360 U	100 J	360 U	44 J	380 U
Nitrobenzene	UG/KG		66 U	66 U	360 U	420 U	360 U	370 U	380 U
Pentachlorophenol	UG/KG		160 UJ	160 UJ	880 U	1000 U	870 U	910 U	920 U
Phonanthrene	UG/KG		43 J	20 J	360 U	1100	360 U	1200 J	380 U
Phenol	UG/KG		66 U	66 U	360 U	420 U	360 U	370 U	380 U
Pyrene	UG/KG		48 J	21 J	360 U	940	28 J	2800	380 U
Pyridine	UG/KG								
Total Unknown PAHs as SV	MG/KG	3	0.7	0.6 U					
Pesticides/PCBs									
4,4'-DDD	UG/KG		3.7 U	4.2 U	3.6 UJ	450	3.6 UJ	22 J	3.8 U
4,4'-DDE	UG/KG		3.7 U	4.2 U	3.6 UJ	140	3.6 UJ	21	3.8 U
4,4'-DDT	UG/KG		3.7 U	4.2 U	3.6 UJ	150	3.6 UJ	23 J	3.8 U
Aldrin	UG/KG		1.9 U	2.2 U	1.9 UJ	22 U	1.8 UJ	3.9 U	2 U
Alpha-BHC	UG/KG		1.9 U	2.2 U	1.9 UJ	22 U	1.8 UJ	3.9 U	2 U
Alpha-Chlordane	UG/KG		1.9 U	2.2 U	1.9 UJ	22 U	1.8 UJ	3.9 U	2 U
Beta-BHC	UG/KG		1.9 U	2.2 U	1.9 UJ	22 U	1.8 UJ	3.9 U	2 U
Delta-BHC	UG/KG		1.9 U	2.2 U	1.9 UJ	22 U	1.8 UJ	3.9 U	2 U
Dieldrin	UG/KG		3.7 U	4.2 U	3.6 UJ	42 U	3.6 UJ	7.5 U	3.8 U
Endosulfan I	UG/KG		1.9 U	2.2 U	1.9 UJ	22 U	1.8 UJ	3.9 U	2 U
Endosulfan II	UG/KG		3.7 U	4.2 U	3.6 UJ	42 U	3.6 UJ	7.5 U	3.8 U
Endosulfan sulfate	UG/KG		3.7 U	4.2 U	3.6 UJ	42 U	3.6 UJ	7.5 U	3.8 U
Endrin	UG/KG		3.7 U	4.2 U	3.6 UJ	42 U	3.6 UJ	7.5 U	3.8 U
Endrin aldehyde	UG/KG		3.7 U	4.2 U	3.6 UJ	42 U	3.6 UJ	7.5 U	3.8 U
Endrin ketone	UG/KG		3.7 U	4.2 U	3.6 UJ	42 U	3.6 UJ	7.5 U	3.8 U
Gamma-BHC/Lindane	UG/KG		1.9 U	2.2 U	1.9 UJ	22 U	1.8 UJ	3.9 U	2 U
Gamma-Chlordane	UG/KG		1.9 U	2.2 U	1.9 UJ	22 U	1.8 UJ	2.2 J	2 U
Heptachlor	UG/KG		1.9 U	2.2 U	1.9 UJ	22 U	1.8 UJ	3.9 U	2 U
Heptachlor epoxide	UG/KG		1.9 U	2.2 U	1.9 UJ	22 U	1.8 UJ	3.9 U	2 U
Methoxychlor	UG/KG		19 U	22 U	19 UJ	220 U	18 UJ	39 U	20 U
Toxaphene	UG/KG		190 U	220 U	190 UJ	2200 U	180 UJ	390 U	200 U
Aroclor-1016	UG/KG		37 U	42 U	36 UJ	420 U	36 UJ	75 U	38 U
Aroclor-1221	UG/KG		75 U	85 U	74 UJ	850 U	75 UJ	150 U	77 U
Aroclor-1232	UG/KG		37 U	42 U	36 UJ	420 U	36 UJ	75 U	38 U
Aroclor-1242	UG/KG		37 U	42 U	36 UJ	420 U	36 UJ	75 U	38 U
Aroclor-1248	UG/KG		37 U	42 U	36 UJ	420 U	36 UJ	75 U	38 U
Aroclor-1254	UG/KG		37 U	42 U	36 UJ	420 U	36 UJ	75 U	38 U
Aroclor-1260	UG/KG		37 U	42 U	36 UJ	420 U	36 UJ	75 U	38 U
Metals									

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	SB59-20	SB59-20	SB59-21	SB59-3	SB59-4	SB59-4	SB59-4	SB59-5	SB59-5
Maxtrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	59107	59066	59067	SB59-3-04	SB59-4-05	SB59-4-10	SB59-5-03	SB59-5-06	SB59-5-06
Sample Depth to Top of Sample ⁽¹⁾	4	4	0	6	8	10	4	10	
Sample Depth to Bottom of Sample ⁽¹⁾	4.5	4.5	1.1	8	10	20	6	12	
Sample Date	10/22/1997	10/22/1997	10/22/1997	5/25/1994	5/25/1994	5/25/1994	5/25/1994	5/25/1994	5/25/1994
QC Code	DJ	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	ESI	ESI	ESI	ESI	ESI	ESI

Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG		10700	14300	8020	4200	7550	12800	7030
Antimony	MG/KG		0.63 UJ	0.68 UJ	0.15 UJ	424 J	0.22 UJ	0.2 UJ	0.18 UJ
Arsenic	MG/KG		3.9	5.2	4.4	3.8	3.7	5.5	5.1
Barium	MG/KG		88.2	167	62.9	304	21.1 J	81.9	36 J
Beryllium	MG/KG		0.38	0.44	0.39 J	0.37 J	0.38 J	0.61 J	0.42 J
Cadmium	MG/KG		0.09 U	0.09 UJ	0.52 J	3.2	0.42 J	0.91 J	0.61 J
Calcium	MG/KG		44000	5450	71100	214000	61700	62800	85200
Chromium	MG/KG		15.7	20.7	13.3	14.7	12.8	20.1	13.1
Cobalt	MG/KG		8.3	11.3	7.9	4 J	7.7 J	10.8	8.1 J
Copper	MG/KG		17.5	2.5	18.4	14.2	15.6	26	18.8
Cyanide	MG/KG		0.63 UJ	0.75 UJ	0.51 U	0.61 U	0.47 U	0.5 U	0.56 U
Iron	MG/KG		19100	24700	17600	6540	17300	24100	18100
Lead	MG/KG		9.3	58.6	9.3 J	139 J	9.5 J	42.1 J	12.3 J
Magnesium	MG/KG		9770	4300	18500	7980	14600	11500	34400
Manganese	MG/KG		407	1050	403	298	328	640	477
Mercury	MG/KG		0.05 U	0.32	0.03 J	0.11	0.03 J	0.15	0.04 J
Nickel	MG/KG		23.7	28.8	22.5	10.6	21.3	29.8	27
Potassium	MG/KG		1440	1600	1370 J	845 J	1100 J	1710 J	922 J
Selenium	MG/KG		0.87 U	1.5	0.26 U	0.28 J	0.96 J	0.53 J	0.31 U
Silver	MG/KG		0.24 U	0.26 U	0.11 UJ	0.11 J	0.15 UJ	0.14 UJ	0.13 UJ
Sodium	MG/KG		696	113 U	198 J	125 J	140 J	161 J	274 J
Thallium	MG/KG		0.89 UJ	0.97 UJ	0.24 U	0.22 U	0.34 U	0.32 U	0.29 U
Vanadium	MG/KG		18.8	23.1	13.6	13.9	12.1	23.2	13.3
Zinc	MG/KG		81.7	87	53.6	341	54.9	101	64.9

Notes:

(1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)

(2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected; the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	SB59-8	SB59-9	SB59-9	SB59-9	TP59-11A-2	TP59-13A-1	TP59-13C-1	TP59-15-5
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	59057	59059	59089	59085	59026	59010	59015	59035
	Sample Depth to Top of Sample ⁽¹⁾	0	2	4	4	4	3.5	3	6
	Sample Depth to Bottom of Sample ⁽¹⁾	2	3.7	5.1	5.1	4.5	4	3.5	6.5
	Sample Date	10/20/1997	10/21/1997	10/22/1997	10/22/1997	10/9/1997	10/8/1997	10/8/1997	10/10/1997
	QC Code	SA	SA	DU	SA	SA	SA	SA	SA
	Study ID	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics									
1,1,1-Trichloroethane	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
1,1,2,2-Tetrachloroethane	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG								
1,1,2-Trichloroethane	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
1,1-Dichloroethane	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
1,1-Dichloroethene	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
1,2,3-Trichloropropane	UG/KG								
1,2,4-Trichlorobenzene	UG/KG								
1,2-Dibromo-3-chloropropane	UG/KG								
1,2-Dibromoethane	UG/KG								
1,2-Dichlorobenzene	UG/KG								
1,2-Dichloroethane	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
1,2-Dichloroethene (total)	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
1,2-Dichloropropane	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
1,3-Dichlorobenzene	UG/KG								
1,3-Dichloropropane	UG/KG								
1,4-Dichlorobenzene	UG/KG								
Acetone	UG/KG	13 U	10 U			7 U	120 U	11 U	12 U
Benzene	UG/KG	13 U	10 U			7 U	120 U	11 U	12 U
Bromodichloromethane	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Bromoform	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Carbon disulfide	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Carbon tetrachloride	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Chlorobenzene	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Chlorodibromomethane	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Chloroethane	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Chloroform	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Cis-1,2-Dichloroethene	UG/KG								
Cis-1,3-Dichloropropene	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Cyclohexane	UG/KG								
Dichlorodifluoromethane	UG/KG								
Ethyl benzene	UG/KG	13 U	10 U			11 U	110 U	11 U	12 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	SB59-8	SB59-9	SB59-9	SB59-9	SB59-9	TP59-11A-2	TP59-13A-1	TP59-13C-1	TP59-15-5
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	59057	59059	59089	59085	59026	59010	59015	59035	
Sample Depth to Top of Sample ⁽¹⁾	0	2	4	4	4	3.5	3	6	
Sample Depth to Bottom of Sample ⁽¹⁾	2	3.7	5.1	5.1	4.5	4	3.5	6.5	
Sample Date	10/20/1997	10/21/1997	10/22/1997	10/22/1997	10/29/1997	10/8/1997	10/8/1997	10/10/1997	
QC Code	SA	SA	DU	SA	SA	SA	SA	SA	
Study ID	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isopropylbenzene	UG/KG								
Meta/Para Xylene	UG/KG								
Methyl Acetate	UG/KG								
Methyl Tertiary Ether	UG/KG								
Methyl bromide	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Methyl butyl ketone	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Methyl chloride	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Methyl cyclohexane	UG/KG								
Methyl ethyl ketone	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Methyl isobutyl ketone	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Methylene chloride	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Ortho Xylene	UG/KG								
Styrene	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Tetrachloroethene	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Toluene	UG/KG	13 U	10 U			11 U	120 U	11 U	2 U
Total BTEX	MG/KG	6.3	4.6	4.1	2.5 U	2.5	9.5	6	
Total Xylenes	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Trans-1,2-Dichloroethene	UG/KG								
Trans-1,3-Dichloropropene	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Trichloroethene	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Trichlorofluoromethane	UG/KG								
Vinyl chloride	UG/KG	13 U	10 U			11 U	120 U	11 U	12 U
Semivolatile Organics									
1,1'-Biphenyl	UG/KG								
1,2,4-Trichlorobenzene	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
1,2-Dichlorobenzene	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
1,3-Dichlorobenzene	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
1,4-Dichlorobenzene	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
2,2'-oxybis(1-Chloropropane)	UG/KG								
2,4,5-Trichlorophenol	UG/KG	200 U	170 U			3500 U	20000 U	180 U	3700 U
2,4,6-Trichlorophenol	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
2,4-Dichlorophenol	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
2,4-Dimethylphenol	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
2,4-Dinitrophenol	UG/KG	200 U	170 U			3500 U	20000 U	180 U	3700 U
2,4-Dinitrotoluene	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
2,6-Dinitrotoluene	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
2-Chloronaphthalene	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
2-Chlorophenol	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
2-Methylnaphthalene	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
2-Methylphenol	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
2-Nitroaniline	UG/KG	200 U	170 U			3500 U	20000 U	180 U	3700 U
2-Nitrophenol	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility Location ID	SEAD-59 SB59-8	SEAD-59 SB59-9	SEAD-59 SB59-9	SEAD-59 SB59-9	SEAD-59 TP59-11A-2	SEAD-59 TP59-13A-1	SEAD-59 TP59-13C-1	SEAD-59 TP59-15-5
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	59057	59059	59089	59085	59026	59010	59015	59035
	Sample Depth to Top of Sample ⁽¹⁾	0	2	4	4	4	3.5	3	6
	Sample Depth to Bottom of Sample ⁽¹⁾	2	3.7	5.1	5.1	4.5	4	3.5	6.5
	Sample Date	10/20/1997	10/21/1997	10/22/1997	10/22/1997	10/9/1997	10/8/1997	10/8/1997	10/10/1997
	QC Code	SA	SA	DU	SA	SA	SA	SA	SA
	Study ID	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
3,3'-Dichlorobenzidine	UG/KG	81 U	69 U			1400 U	8000 U	76 UJ	1500 U
3-Nitroaniline	UG/KG	200 U	170 U			3500 U	20000 U	180 UJ	3700 U
4,6-Dinitro-2-methylphenol	UG/KG	200 U	170 U			3500 U	20000 U	180 U	3700 U
4-Bromophenyl phenyl ether	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
4-Chloro-3-methylphenol	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
4-Chloroaniline	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
4-Chlorophenyl phenyl ether	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
4-Methylphenol	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
4-Nitroaniline	UG/KG	200 U	170 U			3500 U	20000 U	180 U	3700 U
4-Nitrophenol	UG/KG	200 U	170 U			3500 U	20000 U	180 U	3700 U
Acenaphthene	UG/KG	81 U	69 U			340 J	1600 J	76 U	270 J
Acenaphthylene	UG/KG	81 U	69 U			290 J	8000 U	76 U	130 J
Acetophenone	UG/KG								
Antifone	UG/KG								
Anthracene	UG/KG	81 U	69 U			1100 J	8000 U	76 U	390 J
Atrazine	UG/KG								
Benzaldehyde	UG/KG								
Benzo(a)anthracene	UG/KG	6.6 J	69 U			3500	8000 U	8.2 J	3200
Benzo(a)pyrene	UG/KG	7 J	69 U			4100	8000 U	10 J	3600
Benzo(b)fluoranthene	UG/KG	7.7 J	4.8 J			3400	8000 U	11 J	3200
Benzo(g)h)perylene	UG/KG	6.3 J	69 U			2400	8000 U	7.7 J	2300
Benzo(k)fluoranthene	UG/KG	8.4 J	69 U			3200	8000 U	10 J	3100
Benzoic Acid	UG/KG								
Bis(2-Chloroethoxy)methane	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
Bis(2-Chloroethyl)ether	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
Bis(2-Chloroisopropyl)ether	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
Bis(2-Ethylhexyl)phthalate	UG/KG	69 J	24 J			1400 U	8000 U	7 J	1500 U
Butylbenzylphthalate	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1000 J
Caprolactam	UG/KG								
Carbazole	UG/KG	81 U	69 U			610 J	8000 U	76 U	590 J
Chrysene	UG/KG	7.8 J	69 U			3700	8000 U	12 J	4400
Di-n-butylphthalate	UG/KG	5.8 J	7.1 J			1400 U	8000 U	76 U	1500 U
Di-n-octylphthalate	UG/KG	11 J	69 U			1400 U	8000 U	76 U	1500 U
Dibenz(a,h)anthracene	UG/KG	81 U	69 U			890 J	8000 U	76 U	710 J
Dibenzofuran	UG/KG	81 U	69 U			230 J	1400 J	76 U	140 J
Diethyl phthalate	UG/KG	10 J	12 J			1400 U	8000 U	5.3 J	1500 U
Dimethylphthalate	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
Fluoranthene	UG/KG	11 J	69 U			7300	8000 U	14 J	8600
Fluorene	UG/KG	81 U	69 U			640 J	3000 J	76 U	620 J
Hexachlorobenzene	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
Hexachlorobutadiene	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
Hexachlorocyclopentadiene	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
Hexachloroethane	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
Indeno(1,2,3-cd)pyrene	UG/KG	6 J	69 U			2300	8000 U	7.5 J	2000

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility Location ID	SEAD-59 SB59-8	SEAD-59 SB59-9	SEAD-59 SB59-9	SEAD-59 SB59-9	SEAD-59 TP59-11A-2	SEAD-59 TP59-13A-1	SEAD-59 TP59-13C-1	SEAD-59 TP59-15-5
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	59057	59059	59089	59085	59026	59010	59015	59035
	Sample Depth to Top of Sample ⁽¹⁾	0	2	4	4	4	3.5	3	6
	Sample Depth to Bottom of Sample ⁽¹⁾	2	3.7	5.1	5.1	4.5	4	3.5	6.5
	Sample Date	10/20/1997	10/21/1997	10/22/1997	10/22/1997	10/9/1997	10/8/1997	10/8/1997	10/10/1997
	QC Code	SA	SA	DU	SA	SA	SA	SA	SA
	Study ID	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isophorone	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
N-Nitrosodiphenylamine	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
N-Nitrosodipropylamine	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
Naphthalene	UG/KG	81 U	69 U			110 J	8000 U	76 U	1500 U
Nitrobenzene	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
Pentachlorophenol	UG/KG	200 U	170 U			3500 U	20000 U	180 U	3700 U
Phenanthrene	UG/KG	6 J	69 U			5000	5200 J	8.9 J	6500
Phenol	UG/KG	81 U	69 U			1400 U	8000 U	76 U	1500 U
Pyrene	UG/KG	13 J	69 U			7000	8000 U	14 J	8000
Pyridine	UG/KG								
Total Unknown PAHs as SV	MG/KG	0.6 U	0.8	0.6 U	0.6 U	25 J		0.6 U	25 J
Pesticides/PCBs									
4,4'-DDD	UG/KG	4.1 U	3.5 U			13	26	3.8 U	3.8 U
4,4'-DDE	UG/KG	4.1 U	2.5 J			13	10	3.8 U	3.8 U
4,4'-DDT	UG/KG	4.1 U	3.9			12	4 U	3.8 U	3.8 U
Aldrin	UG/KG	2.1 U	1.8 U			1.8 U	2.1 U	2 U	2 U
Alpha-BHC	UG/KG	9	8.2 U			1.8 U	2.1 U	2 U	2 U
Alpha-Chlordane	UG/KG	2.1 U	1.8 U			1.1 J	17	2 U	2 U
Beta-BHC	UG/KG	3.6 J	3 J			1.8 U	2.1 U	2 U	2 U
Delta-BHC	UG/KG	1.4 J	1.1 J			1.8 U	2.1 U	2 U	2 U
Dieldrin	UG/KG	4.1 U	3.5 U			3.6 U	4 U	3.8 U	3.8 U
Endosulfan I	UG/KG	2.1 U	1.8 U			1.8 U	2.1 U	2 U	2 U
Endosulfan II	UG/KG	4.1 U	3.5 U			3.6 U	4 U	3.8 U	3.8 U
Endosulfan sulfate	UG/KG	4.1 U	3.5 U			3.6 U	4 U	3.8 U	3.8 U
Endrin	UG/KG	4.1 U	3.5 U			7.7	4 U	3.8 U	3.8 U
Endrin aldehyde	UG/KG	4.1 U	3.5 U			3.5 J	4 U	3.8 U	3.8 U
Endrin ketone	UG/KG	4.1 U	3.5 U			4.4	4 U	3.8 U	3.8 U
Gamma-BHC-1,1-dane	UG/KG	2.9 U	2.6 U			1.8 U	2.1 U	2 U	2 U
Gamma-Chlordane	UG/KG	2.1 U	1.8 U			1 J	18	2 U	2 U
Heptachlor	UG/KG	2.1 U	1.8 U			1.8 U	2.1 U	2 U	2 U
Heptachlor epoxide	UG/KG	2.1 U	1.8 U			1 J	2.1 U	2 U	2 U
Methoxychlor	UG/KG	2.1 U	1.8 U			18 U	2.1 U	20 U	20 U
Toxaphene	UG/KG	210 U	180 U			180 U	210 U	200 U	200 U
Aroclor-1016	UG/KG	41 U	35 U			36 U	40 U	38 U	38 U
Aroclor-1221	UG/KG	84 U	70 U			73 U	82 U	77 U	77 U
Aroclor-1232	UG/KG	41 U	35 U			36 U	40 U	38 U	38 U
Aroclor-1242	UG/KG	41 U	35 U			36 U	40 U	38 U	38 U
Aroclor-1248	UG/KG	41 U	35 U			36 U	40 U	38 U	38 U
Aroclor-1254	UG/KG	41 U	35 U			36 U	40 U	38 U	38 U
Aroclor-1260	UG/KG	41 U	35 U			36 U	40 U	38 U	38 U
Metals									

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	SB59-8	SB59-9	SB59-9	SB59-9	TP59-11A-2	TP59-13A-1	TP59-13C-1	TP59-15-5
	Maxtrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	59057	59059	59089	59085	59026	59010	59015	59035
	Sample Depth to Top of Sample ⁽¹⁾	0	2	4	4	4	3.5	3	6
	Sample Depth to Bottom of Sample ⁽¹⁾	2	3.7	5.1	5.1	4.5	4	3.5	6.5
	Sample Date	10/20/1997	10/21/1997	10/22/1997	10/22/1997	10/9/1997	10/8/1997	10/8/1997	10/10/1997
	QC Code	SA	SA	DU	SA	SA	SA	SA	SA
	Study ID	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	15200	7180			9950 J	9510 J	6630 J	11900 J
Antimony	MG/KG	0.69 UJ	0.58 UJ			0.56 UJ	0.51 UJ	0.6 UJ	0.62 UJ
Arsenic	MG/KG	5.2	3.8			3.5	4.8	3.6	4.1
Barium	MG/KG	192	47.9			77.8	33.2	33.6	72.6
Beryllium	MG/KG	0.36	0.25			0.39	0.46	0.25	0.45
Cadmium	MG/KG	0.1 U	0.08 U			0.08 U	0.07 U	0.08 U	0.09 U
Calcium	MG/KG	7390	91000			98900	8570	73900	29200
Chromium	MG/KG	20.7	11.9			16.4	17.5	11.6	18.4
Cobalt	MG/KG	12.5	8.1			9.5	13.8	9	8.9
Copper	MG/KG	28.4	18.7			36.1	27	15.8	28.1
Cyanide	MG/KG	0.65 UJ	0.53 UJ			0.58 U	0.65 U	0.57 U	0.61 U
Iron	MG/KG	26300	16100			18200	22200	15400	21300
Lead	MG/KG	55.5	8.5			65.2 J	17.6 J	11.1 J	47 J
Magnesium	MG/KG	4740	18300			8970 J	6250 J	7700 J	9520 J
Manganese	MG/KG	1150	385			442 J	285 J	340 J	496 J
Mercury	MG/KG	0.21	0.05 U			0.15	0.05 U	0.05 U	0.05 U
Nickel	MG/KG	28.5	21.4			26.8	35	21.5	24.4
Potassium	MG/KG	1770	1430			1540	1090	1000	1590
Selenium	MG/KG	1.4	0.79 U			0.78 U	0.71 U	0.83 U	0.86 U
Silver	MG/KG	0.26 U	0.22 U			0.25	0.2 U	0.23 U	0.24 U
Sodium	MG/KG	115 U	142			99.5	1150	385	92.5 U
Thallium	MG/KG	0.98 UJ	0.81 UJ			1.2 U	1.1 U	1.2 U	1.3 U
Vanadium	MG/KG	25.4	13.7			18.7	16	11.6	26.3
Zinc	MG/KG	86	61.2			90.9 J	97.2 J	69.7 J	83.6 J

Notes:

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis

U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected; the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	TP59-16-1	TP59-17-3	TP59-2	TP59-5	TP59-6-2	TP59-8-2	TP59-9-2	TP59-9-2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	59036	59044	TP59-2	TP59-5	59002	59050	59053	59052
	Sample Depth to Top of Sample ⁽¹⁾	3.5	3	7	2.5	6	1.5	2	2
	Sample Depth to Bottom of Sample ⁽¹⁾	4	3.5	7	2.5	6.5	2	2.5	2.5
	Sample Date	10/10/1997	10/13/1997	2/20/1994	6/8/1994	10/7/1997	10/13/1997	10/13/1997	10/13/1997
	QC Code	SA	SA	SA	SA	SA	SA	DU	SA
	Study ID	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	ESI	ESI	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics									
1,1,1-Trichloroethane	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
1,1,2,2-Tetrachloroethane	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG								
1,1,2-Trichloroethane	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
1,1-Dichloroethane	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
1,1-Dichloroethene	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
1,2,3-Trichloropropane	UG/KG								
1,2,4-Trichlorobenzene	UG/KG								
1,2-Dibromo-3-chloropropane	UG/KG								
1,2-Dibromoethane	UG/KG								
1,2-Dichlorobenzene	UG/KG								
1,2-Dichloroethane	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
1,2-Dichloroethene (total)	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
1,2-Dichloropropane	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
1,3-Dichlorobenzene	UG/KG								
1,3-Dichloropropane	UG/KG								
1,4-Dichlorobenzene	UG/KG								
Acetone	UG/KG	13 U	11 U	17 U	30	13 U	12 U		12 U
Benzene	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
Bromodichloromethane	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
Bromoform	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
Carbon disulfide	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
Carbon tetrachloride	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
Chlorobenzene	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
Chlorodibromomethane	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
Chloroethane	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
Chloroform	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
Cis-1,2-Dichloroethene	UG/KG								
Cis-1,3-Dichloropropene	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
Cyclohexane	UG/KG								
Dichlorodifluoromethane	UG/KG								
Ethyl benzene	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility Location ID	SEAD-59 TP59-16-1	SEAD-59 TP59-17-3	SEAD-59 TP59-2	SEAD-59 TP59-5	SEAD-59 TP59-6-2	SEAD-59 TP59-8-2	SEAD-59 TP59-9-2	SEAD-59 TP59-9-2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	59036	59044	TP59-2	TP59-5	59002	59050	59053	59052
	Sample Depth to Top of Sample ⁽¹⁾	3.5	3	7	2.5	6	1.5	2	2
	Sample Depth to Bottom of Sample ⁽¹⁾	4	3.5	7	2.5	6.5	2	2.5	2.5
	Sample Date	10/10/1997	10/13/1997	2/20/1994	6/8/1994	10/7/1997	10/13/1997	10/13/1997	10/13/1997
	QC Code	SA	SA	SA	SA	SA	SA	DU	SA
	Study ID	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	ESI	ESI	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isopropylbenzene	UG/KG								
Meta/Para Xylene	UG/KG								
Methyl Acetate	UG/KG								
Methyl Terbutyl Ether	UG/KG								
Methyl bromide	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
Methyl butyl ketone	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
Methyl chloride	UG/KG	13 U	11 U	11 U	3 J	13 U	12 U		12 U
Methyl cyclohexane	UG/KG								
Methyl ethyl ketone	UG/KG	30	11 U	11 U	12	36 J	12 U		12 U
Methyl isobutyl ketone	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
Methylene chloride	UG/KG	13 U	11 U	11 U	1 J	13 U	12 U		12 U
Ortho Xylene	UG/KG								
Styrene	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
Tetrachloroethene	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
Toluene	UG/KG	13 U	2 J	13 U	2 J	13 U	12 U		12 U
Total BTEX	MG/KG	2.5 U	2.8			8	3.5	2.5 U	2.5 U
Total Xylenes	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
Trans-1,2-Dichloroethene	UG/KG								
Trans-1,3-Dichloropropene	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
Trichloroethene	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
Trichlorofluoromethane	UG/KG								
Vinyl chloride	UG/KG	13 U	11 U	11 U	12 U	13 U	12 U		12 U
Semivolatile Organics									
1,1'-Biphenyl	UG/KG								
1,2,4-Trichlorobenzene	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
1,2-Dichlorobenzene	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
1,3-Dichlorobenzene	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
1,4-Dichlorobenzene	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
2,2'-oxybis(1-Chloropropane)	UG/KG								
2,4,5-Trichlorophenol	UG/KG	190 U	880 U	4500 U	940 U	220 U	360 U		370 U
2,4,6-Trichlorophenol	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
2,4-Dichlorophenol	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
2,4-Dimethylphenol	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
2,4-Dinitrophenol	UG/KG	190 U	880 U	4500 U	940 U	220 U	360 U		370 U
2,4-Dinitrotoluene	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
2,6-Dinitrotoluene	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
2-Chloronaphthalene	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
2-Chlorophenol	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
2-Methylnaphthalene	UG/KG	16 J	970	400 J	390 U	17 J	14 J		10 J
2-Methylphenol	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
2-Nitroaniline	UG/KG	190 U	880 U	4500 U	940 U	220 U	360 U		370 U
2-Nitrophenol	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	TP59-16-1	TP59-17-3	TP59-2	TP59-5	TP59-6-2	TP59-8-2	TP59-9-2	TP59-9-2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	59036	59044	TP59-2	TP59-5	59002	59050	59053	59052
	Sample Depth to Top of Sample (1)	3.5	3	7	2.5	6	1.5	2	2
	Sample Depth to Bottom of Sample (1)	4	3.5	7	2.5	6.5	2	2.5	2.5
	Sample Date	10/10/1997	10/13/1997	2/20/1994	6/8/1994	10/7/1997	10/13/1997	10/13/1997	10/13/1997
	QC Code	SA	SA	SA	SA	SA	SA	DU	SA
	Study ID	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	ESI	ESI	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
3,3'-Dichlorobenzidine	UG/KG	78 UJ	360 U	1800 U	390 U	89 UJ	150 U		150 U
3-Nitroaniline	UG/KG	190 UJ	880 U	4500 U	940 U	220 UJ	360 U		370 U
4,6-Dinitro-2-methylphenol	UG/KG	190 U	880 U	4500 U	940 U	220 U	360 U		370 U
4-Bromophenyl phenyl ether	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
4-Chloro-3-methylphenol	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
4-Chloroaniline	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
4-Chlorophenyl phenyl ether	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
4-Methylphenol	UG/KG	78 U	360 U	1800 U	390 U	83 J	150 U		150 U
4-Nitroaniline	UG/KG	190 U	880 U	4500 U	940 U	220 U	360 U		370 U
4-Nitrophenol	UG/KG	190 UJ	880 U	4500 U	940 U	220 U	360 U		370 U
Acenaphthene	UG/KG	19 J	510	870 J	390 U	29 J	18 J		44 J
Acenaphthylene	UG/KG	9.9 J	130 J	460 J	390 U	11 J	8 J		7.9 J
Acetophenone	UG/KG								
Aniline	UG/KG								
Anthracene	UG/KG	27 J	210 J	2100	390 U	61 J	43 J		88 J
Atrazine	UG/KG								
Benzaldehyde	UG/KG								
Benzo(a)anthracene	UG/KG	210	1000	4200	390 U	280	200		320
Benzo(a)pyrene	UG/KG	220	1300	4600 J	390 U	260	210		340
Benzo(b)fluoranthene	UG/KG	250	1000	4400 J	390 U	220 J	230		320
Benzo(ghi)perylene	UG/KG	160	900	1400 J	390 U	180	140 J		210
Benzo(k)fluoranthene	UG/KG	180	1200	4900 J	390 U	260	180		300
Benzoic Acid	UG/KG								
Bis(2-Chloroethoxy)methane	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
Bis(2-Chloroethyl)ether	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
Bis(2-Chloroisopropyl)ether	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
Bis(2-Ethylhexyl)phthalate	UG/KG	17 J	360 U	1800 U	46 J	13 J	19 J		41 J
Butylbenzylphthalate	UG/KG	4.2 J	360 U	1800 U	390 U	89 U	150 U		150 U
Caprolactam	UG/KG								
Carbazole	UG/KG	34 J	150 J	1500 J	390 U	82 J	56 J		120 J
Chrysene	UG/KG	240	1100	4400	390 U	310	220		360
Di-n-butylphthalate	UG/KG	78 U	360 U	1800 U	390 U	8.2 J	12 J		80 J
Di-n-octylphthalate	UG/KG	5.6 J	360 U	1800 UJ	390 U	89 U	150 U		150 U
Dibenz(a,h)anthracene	UG/KG	74 J	350 J	1800 UJ	390 U	74 J	52 J		84 J
Dibenzofuran	UG/KG	78 U	440	1800 U	390 U	14 J	13 J		21 J
Diethyl phthalate	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
Dimethylphthalate	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
Fluoranthene	UG/KG	430	1900	10000	390 U	590	460		790
Fluorene	UG/KG	78 U	220 J	1300 J	390 U	27 J	18 J		46 J
Hexachlorobenzene	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
Hexachlorobutadiene	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
Hexachlorocyclopentadiene	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
Hexachloroethane	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
Indeno(1,2,3-cd)pyrene	UG/KG	160	840	1500 J	390 U	180	140 J		200

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility Location ID	SEAD-59 TP59-16-1	SEAD-59 TP59-17-3	SEAD-59 TP59-2	SEAD-59 TP59-5	SEAD-59 TP59-6-2	SEAD-59 TP59-8-2	SEAD-59 TP59-9-2	SEAD-59 TP59-9-2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	59036	59044	TP59-2	TP59-5	59002	59050	59053	59052
	Sample Depth to Top of Sample ⁽¹⁾	3.5	3	7	2.5	6	1.5	2	2
	Sample Depth to Bottom of Sample ⁽¹⁾	4	3.5	7	2.5	6.5	2	2.5	2.5
	Sample Date	10/10/1997	10/13/1997	2/20/1994	6/8/1994	10/7/1997	10/13/1997	10/13/1997	10/13/1997
	QC Code	SA	SA	SA	SA	SA	SA	DU	SA
	Study ID	RI PHASE I STEP I	RI PHASE I STEP I	ESI	ESI	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isophorone	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
N-Nitrosodiphenylamine	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
N-Nitrosodipropylamine	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
Naphthalene	UG/KG	10 J	610	290 J	390 U	15 J	11 J		12 J
Nitrobenzene	UG/KG	78 U	360 U	1800 U	390 U	89 U	150 U		150 U
Pentachlorophenol	UG/KG	190 U	880 U	4500 U	940 U	220 U	360 U		370 U
Phenanthrene	UG/KG	160	830	8300	390 U	370	200		460
Phenol	UG/KG	78 U	360 U	1800 U	390 U	17 J	150 U		150 U
Pyrene	UG/KG	370	1600	12000		500	340		550
Pyridine	UG/KG								
Total Unknown PAHs as SV	MG/KG	0.6 U	2.5 J			0.6 U		4.8	22
Pesticides/PCBs									
4,4'-DDD	UG/KG	3.9 U	11 J	15	3.9 U	70	3.7 U		3.4 J
4,4'-DDE	UG/KG	3.9 U	15	26 J	3.9 U	48	10		80
4,4'-DDT	UG/KG	3.9 U	24	20 J	3.9 U	59	10		36
Aldrin	UG/KG	2 U	1.9 U	3.8 U	2 U	2.3 U	1.9 U		2 U
Alpha-BHC	UG/KG	2 U	1.9 U	3.8 U	2 U	2.3 U	1.9 U		2 U
Alpha-Chlordane	UG/KG	2 U	1.9 U	3.8 U	2 U	2.3 U	1.9 U		2 U
Beta-BHC	UG/KG	2 U	1.9 U	3.8 U	2 U	2.3 U	1.9 U		2 U
Delta-BHC	UG/KG	2 U	1.9 U	3.8 U	2 U	2.3 U	1.9 U		2 U
Dieldrin	UG/KG	3.9 U	3.6 U	7.3 U	3.9 U	4.4 U	3.7 U		3.8 U
Endosulfan I	UG/KG	2 U	1.9 U	3.8 U	2 U	2.3 U	1.9 U		2 U
Endosulfan II	UG/KG	3.9 U	3.6 U	7.1 J	3.9 U	4.4 U	3.7 U		3.8 U
Endosulfan sulfate	UG/KG	3.9 U	3.6 U	7.3 U	3.9 U	4.3 J	3.7 U		3.8 U
Endrin	UG/KG	3.9 U	6.2	7.3 U	3.9 U	4.4 U	3.7 U		3.8 U
Endrin aldehyde	UG/KG	3.9 U	3.7 J	6.3 J	3.9 U	4.4 U	3.7 U		3.8 U
Endrin ketone	UG/KG	3.9 U	3.3 J	7.3 U	3.9 U	4.4 U	3.7 U		3.8 U
Gamma-BHC/Lindane	UG/KG	2 U	1.9 U	3.8 U	2 U	2.3 U	1.9 U		2 U
Gamma-Chlordane	UG/KG	2 U	1 J	3.8 U	2 U	2.3 U	1.9 U		2 U
Heptachlor	UG/KG	2 U	1.9 U	3.8 U	2 U	2.3 U	1.9 U		2 U
Heptachlor epoxide	UG/KG	2 U	1.6 J	2.2 J	2 U	5.7 J	1.9 U		3 J
Methoxychlor	UG/KG	20 U	19 U	38 U	20 U	23 U	19 U		19 U
Toxaphene	UG/KG	200 U	190 U	380 U	200 U	230 U	190 U		200 U
Aroclor-1016	UG/KG	39 U	36 U	73 U	39 U	44 U	37 U		38 U
Aroclor-1221	UG/KG	80 U	74 U	150 U	79 U	90 U	75 U		78 U
Aroclor-1232	UG/KG	39 U	36 U	73 U	39 U	44 U	37 U		38 U
Aroclor-1242	UG/KG	39 U	36 U	73 U	39 U	44 U	37 U		38 U
Aroclor-1248	UG/KG	39 U	36 U	73 U	39 U	44 U	37 U		38 U
Aroclor-1254	UG/KG	39 U	36 U	73 U	39 U	44 U	37 U		38 U
Aroclor-1260	UG/KG	39 U	36 U	73 U	39 U	44 U	37 U		38 U
Metals									

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility Location ID	SEAD-59 TP59-16-1	SEAD-59 TP59-17-3	SEAD-59 TP59-2	SEAD-59 TP59-5	SEAD-59 TP59-6-2	SEAD-59 TP59-8-2	SEAD-59 TP59-9-2	SEAD-59 TP59-9-2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	59036	59044	TP59-2	TP59-5	59002	59050	59053	59052
	Sample Depth to Top of Sample ⁽¹⁾	3.5	3	7	2.5	6	1.5	2	2
	Sample Depth to Bottom of Sample ⁽¹⁾	4	3.5	7	2.5	6.5	2	2.5	2.5
	Sample Date	10/10/1997	10/13/1997	2/20/1994	6/8/1994	10/7/1997	10/13/1997	10/13/1997	10/13/1997
	QC Code	SA	SA	SA	SA	SA	SA	DU	SA
	Study ID	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	ESI	ESI	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	12400 J	12300 J	10200 J	8730 J	12600 J	12500 J		10700 J
Antimony	MG/KG	0.6 UJ	0.56 UJ	0.47 J	0.25 UJ	0.73 UJ		0.56 UJ	0.6 UJ
Arsenic	MG/KG	3.8	5.5	4.8 J	4.1	6	5.1		4.5
Barium	MG/KG	94.4	69.5	52.6 J	72.1	101	113		77.1
Beryllium	MG/KG	0.45	0.46	0.43 J	0.33 J	0.52	0.32		0.4
Cadmium	MG/KG	0.08 U	0.08 U	0.4 J	0.38 J	0.1 U	0.08 U		0.08 U
Calcium	MG/KG	5590	59600	42700 J	77700 J	28000	28200		25000
Chromium	MG/KG	18.9	21.2	16.9 J	13.2 J	18.8	18.6		15.8
Cobalt	MG/KG	9.8	12.6	9.1 J	6.3 J	10.6	11.7		8.9
Copper	MG/KG	20.2	30.2	24.1	17.2 J	25.1	25.3		21.1
Cyanide	MG/KG	0.66 U	0.66 U	0.55 U	0.45 U	0.72 U	0.48 U		0.71 U
Iron	MG/KG	22700	25800	19700 J	16800 J	25600	23200		19500
Lead	MG/KG	13.9 J	30.4 J	29.7 J	10.2	65.5 J	53.7 J		29.5 J
Magnesium	MG/KG	4810 J	12900 J	6380 J	15400 J	4600 J	5710 J		5940 J
Manganese	MG/KG	561 J	454 J	425 J	326 J	572 J	886 J		422 J
Mercury	MG/KG	0.05 U	0.05 U	0.04 J	0.05 JR	0.15	0.09		0.09
Nickel	MG/KG	29.5	41.4	25.3 J	21.1 J	25.4	27.8		23.1
Potassium	MG/KG	1610	1780	1350 J	1310	1490	1460		1180
Selenium	MG/KG	0.82 U	0.77 U	0.12 U	0.52 U	1 U	0.77		0.83 U
Silver	MG/KG	0.21 U	0.21 U	0.09 U	0.1 UJ	0.28 U	0.21 U		0.23 U
Sodium	MG/KG	355	155	116 J	169 J	134	83.1 U		89.6 U
Thallium	MG/KG	1.2 U	1.2 U	0.21 U	0.37 U	1.5 U	1.2 U		1.2 U
Vanadium	MG/KG	21.5	21.2	18.7 J	15.2 J	21.5	20.9		17.3
Zinc	MG/KG	72.6 J	83.8 J	72.3 J	52.5 J	114 J	105 J		68.8 J

Note(s)

(1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)

(2) - Sample Duplicate pairs are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected, the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-004-7	WS-59-01-006-1	WS-59-01-006-2	WS-59-01-006-4	WS-59-01-006-5	WS-59-01-006-6	WS-59-01-006-8	WS-59-01-007-3
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-004-7	WS-59-01-006-1	WS-59-01-006-2	WS-59-01-006-4	WS-59-01-006-5	WS-59-01-006-6	WS-59-01-006-8	WS-59-01-007-3
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics									
1,1,1-Trichloroethane	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
1,1,2,2-Tetrachloroethane	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
1,1,2-Trichloroethane	UG/KG								
1,1-Dichloroethane	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
1,1-Dichloroethene	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
1,2,3-Trichloropropane	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
1,2,4-Trichlorobenzene	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
1,2-Dibromo-3-chloropropane	UG/KG								
1,2-Dibromoethane	UG/KG								
1,2-Dichlorobenzene	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
1,2-Dichloroethane	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
1,2-Dichloroethene (total)	UG/KG								
1,2-Dichloropropane	UG/KG								
1,3-Dichlorobenzene	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
1,3-Dichloropropane	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
1,4-Dichlorobenzene	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
Acetone	UG/KG	24 U	23 U	22 U	23 U	4 J	7.1 J	23 U	20 J
Benzene	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
Bromodichloromethane	UG/KG								
Bromoform	UG/KG								
Carbon disulfide	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
Carbon tetrachloride	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
Chlorobenzene	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
Chlorodibromomethane	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
Chloroethane	UG/KG	12 U	11 U	11 U	11 U	11 U	12 U	11 U	12 U
Chloroform	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
Cis-1,2-Dichloroethene	UG/KG								
Cis-1,3-Dichloropropene	UG/KG								
Cyclohexane	UG/KG								
Dichlorodifluoromethane	UG/KG								
Ethyl benzene	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-004-7	WS-59-01-006-11	WS-59-01-006-2	WS-59-01-006-4	WS-59-01-006-5	WS-59-01-006-6	WS-59-01-006-8	WS-59-01-007-3
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-004-7	WS-59-01-006-11	WS-59-01-006-2	WS-59-01-006-4	WS-59-01-006-5	WS-59-01-006-6	WS-59-01-006-8	WS-59-01-007-3
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isopropylbenzene	UG/KG								
Meta/Para Xylene	UG/KG	6 U	5.7 U	5.6 U	5.1 J	5.6 U	5.9 U	5.7 U	5.9 U
Methyl Acetate	UG/KG								
Methyl Tertbutyl Ether	UG/KG								
Methyl bromide	UG/KG								
Methyl butyl ketone	UG/KG								
Methyl chloride	UG/KG								
Methyl cyclohexane	UG/KG								
Methyl ethyl ketone	UG/KG	12 U	11 U	11 U	11 U	11 U	12 U	11 U	12 U
Methyl isobutyl ketone	UG/KG	12 U	11 U	11 U	11 U	11 U	12 U	11 U	12 U
Methylene chloride	UG/KG	6 U	5.7 U	1.3 J	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
Ortho Xylene	UG/KG	6 U	5.7 U	5.6 U	1.1 NJ	5.6 U	5.9 U	5.7 U	5.9 U
Styrene	UG/KG								
Tetrachloroethene	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
Toluene	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
Total BTEX	MG/KG								
Total Xylenes	UG/KG								
Trans-1,2-Dichloroethene	UG/KG	6 U	5.7 U	5.6 U	5.7 U	5.6 U	5.9 U	5.7 U	5.9 U
Trans-1,3-Dichloropropene	UG/KG								
Trichloroethene	UG/KG	6 U	1.6 J	1.6 J	4.5 J	4 J	5.9 U	5.7 U	1.4 J
Trichlorofluoromethane	UG/KG								
Vinyl chloride	UG/KG	12 U	11 U	11 U	11 U	11 U	12 U	11 U	12 U
Semivolatile Organics									
1,1'-Biphenyl	UG/KG								
1,2,4-Trichlorobenzene	UG/KG								
1,2-Dichlorobenzene	UG/KG								
1,3-Dichlorobenzene	UG/KG								
1,4-Dichlorobenzene	UG/KG								
2,2'-oxybis(1-Chloropropane)	UG/KG								
2,4,5-Trichlorophenol	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
2,4,6-Trichlorophenol	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
2,4-Dichlorophenol	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
2,4-Dimethylphenol	UG/KG								
2,4-Dinitrophenol	UG/KG	6100 U	9700 U	3800 U	5800 U	5700 U	6000 U	9600 U	10000 U
2,4-Dinitrotoluene	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
2,6-Dinitrotoluene	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
2-Chloronaphthalene	UG/KG								
2-Chlorophenol	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
2-Methylnaphthalene	UG/KG	220 J	1900 U	75 J	280 J	1100 U	1200 U	1900 U	2000 U
2-Methylphenol	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
2-Nitroaniline	UG/KG	6100 U	9700 U	3800 U	5800 U	5700 U	6000 U	9600 U	10000 U
2-Nitrophenol	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	WS-59-01-004-7	WS-59-01-006-11	WS-59-01-006-2	WS-59-01-006-4	WS-59-01-006-5	WS-59-01-006-6	WS-59-01-006-8	WS-59-01-007-3	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	WS-59-01-004-7	WS-59-01-006-11	WS-59-01-006-2	WS-59-01-006-4	WS-59-01-006-5	WS-59-01-006-6	WS-59-01-006-8	WS-59-01-007-3	
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
OC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
	I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
3,3'-Dichlorobenzidine	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
3-Nitroaniline	UG/KG	6100 U	9700 U	3800 U	5800 U	5700 U	6000 U	9600 U	10000 U
4,6-Dinitro-2-methylphenol	UG/KG								
4-Bromophenyl phenyl ether	UG/KG								
4-Chloro-3-methylphenol	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
4-Chloroaniline	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
4-Chlorophenyl phenyl ether	UG/KG								
4-Methylphenol	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
4-Nitroaniline	UG/KG								
4-Nitrophenol	UG/KG	6100 U	9700 U	3800 U	5800 U	5700 U	6000 U	9600 U	10000 U
Acenaphthene	UG/KG	1200 U	320 J	150 J	330 J	300 J	140 J	1900 U	2000 U
Acenaphthylene	UG/KG	120 J	1700 J	1100	1500 J	1600	650 J	1100 J	790 J
Acetophenone	UG/KG								
Aniline	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
Anthracene	UG/KG	130 J	1400 J	790	1200 J	1300	580 J	900 J	920 J
Atrazine	UG/KG								
Benzaldehyde	UG/KG								
Benzo(a)anthracene	UG/KG	280 J	3200	2000	2500	3100	1300	2000	3100
Benzo(a)pyrene	UG/KG	350 J	3800	2800	3100	3900	1600	2300	3200
Benzo(h)fluoranthene	UG/KG	250 J	2700	2000	2200	2600	1100 J	1700 J	2500
Benzo(ghi)perylene	UG/KG	220 J	2900	2200	2400	2900	1200	1900 J	2000
Benzo(k)fluoranthene	UG/KG	280 J	2600	1900	2200	2800	1100 J	1500 J	2600
Benzoic Acid	UG/KG	6100 U	9700 UJ	3800 UJ	5800 UJ	5700 UJ	6000 UJ	9600 UJ	10000 UJ
Bis(2-Chloroethoxy)methane	UG/KG								
Bis(2-Chloroethyl)ether	UG/KG								
Bis(2-Chloroisopropyl)ether	UG/KG								
Bis(2-Ethylhexyl)phthalate	UG/KG	210 J	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
Butylbenzylphthalate	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 UJ
Caprolactam	UG/KG								
Carbazole	UG/KG								
Chrysene	UG/KG	330 J	3200	2100	2500	3100	1200	1900	3200
Di-n-butylphthalate	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
Di-n-octylphthalate	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
Dibenz(a,h)anthracene	UG/KG	1200 U	900 J	630 J	710 J	940 J	400 J	510 J	710 J
Dibenzofuran	UG/KG	1200 U	1900 U	740 U	180 NJ	120 J	1200 U	1900 U	2000 U
Diethyl phthalate	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
Dimethyl phthalate	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
Fluoranthene	UG/KG	560 J	6600	3900	4900	6200	2500	3900	6000
Fluorone	UG/KG	1200 U	320 J	150 NJ	430 J	310 J	190 J	220 J	310 J
Hexachlorobenzene	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
Hexachlorobutadiene	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
Hexachlorocyclopentadiene	UG/KG								
Hexachloroethane	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
Indeno(1,2,3-cd)pyrene	UG/KG	200 J	2600 J	1900 J	2000 J	2600 J	1100 J	1700 J	1900 J

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-004-7	WS-59-01-006-11	WS-59-01-006-2	WS-59-01-006-4	WS-59-01-006-5	WS-59-01-006-6	WS-59-01-006-8	WS-59-01-007-3
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-004-7	WS-59-01-006-11	WS-59-01-006-2	WS-59-01-006-4	WS-59-01-006-5	WS-59-01-006-6	WS-59-01-006-8	WS-59-01-007-3
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isophorone	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
N-Nitrosodiphenylamine	UG/KG								
N-Nitrosodipropylamine	UG/KG								
Naphthalene	UG/KG	1200 U	1900 U	90 NJ	170 J	110 NJ	1200 U	1900 U	2000 U
Nitrobenzene	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
Pentachlorophenol	UG/KG	6100 U	9700 U	3800 U	5800 U	5700 U	6000 U	9600 U	10000 U
Phenanthrene	UG/KG	350 J	3200	1600	2700	2800	1300	2000	2500
Phenol	UG/KG	1200 U	1900 U	740 U	1100 U	1100 U	1200 U	1900 U	2000 U
Pyrene	UG/KG	470 J	5400	1900	4900	5700	2200	3700	4900
Pyridine	UG/KG	6100 U	9700 U	3800 U	5800 U	5700 U	6000 U	9600 U	10000 U
Total Unknown PAHs as SV	MG/KG								
Pesticides/PCBs									
4,4'-DDD	UG/KG	38	19 U	23 J	100 J	110	160	160	37
4,4'-DDE	UG/KG	43	21	90 J	280	300	190	310	22 J
4,4'-DDT	UG/KG	42	19 U	55 J	310	470	410	570	20 U
Aldrin	UG/KG	10 U	9.7 U	9.5 U	9.6 U	19 U	20 U	39 U	10 U
Alpha-BHC	UG/KG	10 U	9.7 U	9.5 U	9.6 U	19 U	20 U	39 U	10 U
Alpha-Chlordane	UG/KG	10 U	9.7 U	9.5 U	9.6 U	19 U	20 U	39 U	10 U
Beta-BHC	UG/KG	10 U	9.7 U	9.5 U	9.6 U	19 U	20 U	39 U	10 U
Delta-BHC	UG/KG	10 U	9.7 U	9.5 U	9.6 U	19 U	20 U	39 U	10 U
Dieldrin	UG/KG	20 U	19 U	18 U	19 U	37 U	39 U	75 U	20 U
Endosulfan I	UG/KG	10 U	9.7 U	9.5 U	9.6 U	19 U	20 U	39 U	10 U
Endosulfan II	UG/KG	20 U	19 U	18 U	19 U	37 U	39 U	75 U	20 U
Endosulfan sulfate	UG/KG	20 U	19 U	18 U	19 U	37 U	39 U	75 U	20 U
Endrin	UG/KG	20 U	19 U	18 U	19 U	37 U	39 U	75 U	20 U
Endrin aldehyde	UG/KG	20 U	19 U	18 U	19 U	37 U	39 U	75 U	20 U
Endrin ketone	UG/KG	20 U	19 U	18 U	19 U	37 U	39 U	75 U	20 U
Gamma-BHC/Chlordane	UG/KG	10 U	9.7 U	9.5 U	9.6 U	19 U	20 U	39 U	10 U
Gamma-Chlordane	UG/KG	10 U	9.7 U	9.5 U	9.6 U	19 U	20 U	39 U	10 U
Heptachlor	UG/KG	10 U	9.7 U	9.5 U	9.6 U	19 U	20 U	39 U	10 U
Heptachlor epoxide	UG/KG	10 U	9.7 U	9.5 U	9.6 U	19 U	20 U	39 U	10 U
Methoxychlor	UG/KG	100 U	97 U	95 U	96 U	190 U	200 U	390 U	100 U
Toxaphene	UG/KG	200 U	190 U	180 U	190 U	370 U	390 U	750 U	200 U
Aroclor-1016	UG/KG	40 U	38 U	37 U	37 U	37 U	39 U	37 U	39 U
Aroclor-1221	UG/KG	40 U	38 U	37 U	37 U	37 U	39 U	37 U	39 U
Aroclor-1232	UG/KG	40 U	38 U	37 U	37 U	37 U	39 U	37 U	39 U
Aroclor-1242	UG/KG	40 U	38 U	37 U	37 U	37 U	39 U	37 U	39 U
Aroclor-1248	UG/KG	40 U	38 U	37 U	37 U	37 U	39 U	37 U	39 U
Aroclor-1254	UG/KG	40 U	38 U	37 U	37 U	37 U	39 U	37 U	39 U
Aroclor-1260	UG/KG	40 U	38 U	37 U	37 U	37 U	39 U	37 U	39 U
Metals									

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-004-7	WS-59-01-006-11	WS-59-01-006-2	WS-59-01-006-4	WS-59-01-006-5	WS-59-01-006-6	WS-59-01-006-8	WS-59-01-007-3
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-004-7	WS-59-01-006-11	WS-59-01-006-2	WS-59-01-006-4	WS-59-01-006-5	WS-59-01-006-6	WS-59-01-006-8	WS-59-01-007-3
	Sample Depth to Top of Sample ⁽²⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM 1	ENSR IRM 1	ENSR IRM 1	ENSR IRM 1	ENSR IRM 1	ENSR IRM 1	ENSR IRM 1	ENSR IRM 1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	9670	11100	9720	10100	10600	11900	10000	10700
Antimony	MG/KG	3.5 UJ	3.4 UJ	3.2 UJ	3.4 UJ	3.3 UJ	3.4 UJ	3.3 UJ	3.4 UJ
Arsenic	MG/KG	4.3	5.2 J	4.1	5.4	5.4 J	5.4 J	5.3 J	5
Barium	MG/KG	85.1	93.9	78.5	84.8	85.1	105	85.4	87.5
Beryllium	MG/KG	0.25 J	0.34	0.2	0.2	0.26	0.23	0.23	0.29
Cadmium	MG/KG	0.39 J	0.69	0.46 J	0.61	0.68	0.68	0.7	0.7
Calcium	MG/KG	46500 J	53300	59200	53600	63500	37100	63200	44700
Chromium	MG/KG	15.6	20.1	15.8	19.4	19	20.3	18.1	19.4
Cobalt	MG/KG	7.5	10.8	9.3	10.5	11	11.2	9.9	9.5
Copper	MG/KG	21.8	28.4 J	22.1	27.6	33.6 J	46.9 J	33.5 J	29.2
Cyanide	MG/KG								
Iron	MG/KG	17400 J	20400	18400	19200	18900	20800	18400	19400
Lead	MG/KG	29.5 J	70.4	28.9	54.9	58.1	48.7	164	39.8 J
Magnesium	MG/KG	7000 J	12300	9840	8380	8610	6890	9330	7980
Manganese	MG/KG	582	526	476	529	522	575	462	451
Mercury	MG/KG	0.04	0.09	0.04	0.05	0.11	0.23	0.05	0.08
Nickel	MG/KG	21.5	30	25.4	28.6	30.7	30.7	27.4	28.7
Potassium	MG/KG	1240	1110	947	1100	1100	1180	1090	1100
Selenium	MG/KG	0.58 U	0.57 U	0.53 UJ	0.56 UJ	0.55 U	0.57 U	0.56 U	0.57 U
Silver	MG/KG	0.58 U	0.57 UJ	0.53 U	0.56 U	0.55 UJ	0.57 UJ	0.56 UJ	0.57 UJ
Sodium	MG/KG	173	197	107	105	173	222	194	461
Thallium	MG/KG	0.85 J	0.57 U	0.72 J	0.64 J	0.78 J	0.75 J	0.56 U	0.67 J
Vanadium	MG/KG	19.4	20	16.5	18.1	18.5	20.4	19.4	18.5
Zinc	MG/KG	75.8 J	123 J	78.8	104	114 J	115 J	135 J	133

Note(s):

(1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)

(2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected; the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-007-4	WS-59-01-007-7	WS-59-01-007-9	WS-59-01-011-3	WS-59-01-011-4	WS-59-01-012-1	WS-59-01-013-1	WS-59-01-013-3	WS-59-01-013-4
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-007-4	WS-59-01-007-7	WS-59-01-007-9	WS-59-01-011-3	WS-59-01-011-4	WS-59-01-012-1	WS-59-01-013-1	WS-59-01-013-3	WS-59-01-013-4
	Sample Depth to Top of Sample (1)	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample (1)	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics										
1,1,1-Trichloroethane	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U
1,1,2,2-Tetrachloroethane	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U
1,1,2-Trichloroethane	UG/KG				5 U	5 U	6 U			
1,1-Dichloroethane	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U
1,1-Dichloroethene	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U
1,2,3-Trichloropropane	UG/KG	5.9 U	6 U	5.8 U				5.8 U	5.8 U	5.9 U
1,2,4-Trichlorobenzene	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U
1,2-Dibromo-3-chloropropane	UG/KG				5 U	5 U	6 U			
1,2-Dibromoethane	UG/KG				5 U	5 U	6 U			
1,2-Dichlorobenzene	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U
1,2-Dichloroethane	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U
1,2-Dichloroethene (total)	UG/KG				5 U	5 U	6 U			
1,2-Dichloropropane	UG/KG				5 U	5 U	6 U			
1,3-Dichlorobenzene	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U
1,3-Dichloropropane	UG/KG	5.9 U	6 U	5.8 U				5.8 U	5.8 U	5.9 U
1,4-Dichlorobenzene	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U
Acetone	UG/KG	5.2 U	24 U	23 U	5 U	5 U	44 NJ	23 U	23 U	24 U
Benzene	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U
Bromodichloromethane	UG/KG				5 U	5 U	6 U			
Bromoform	UG/KG				5 U	5 U	6 U			
Carbon disulfide	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U
Carbon tetrachloride	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U
Chlorobenzene	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U
Chlorodibromomethane	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U
Chloroethane	UG/KG	12 U	12 U	12 U	5 U	5 U	6 U	12 U	12 U	12 U
Chloroform	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U
Cis-1,2-Dichloroethene	UG/KG				5 U	5 U	6 U			
Cis-1,3-Dichloropropene	UG/KG				5 U	5 U	6 U			
Cyclohexane	UG/KG				5 U	5 U	6 U			
Dichlorodifluoromethane	UG/KG				5 U	5 U	6 U			
Ethyl benzene	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Parameter	Units	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	
		Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isopropylbenzene	UG/KG				5 U	5 U	6 U		5.8 U	5.8 U	5.9 U
Meta/Para Xylene	UG/KG	5.9 U	6 U	5.8 U							
Methyl Acetate	UG/KG				5 U	5 U	6 U				
Methyl Tertbutyl Ether	UG/KG				5 U	5 U	6 U				
Methyl bromide	UG/KG				5 U	5 U	6 U				
Methyl butyl ketone	UG/KG				5 U	5 U	6 U				
Methyl chloride	UG/KG				5 U	5 U	6 U				
Methyl cyclohexane	UG/KG				5 U	5 U	6 U				
Methyl ethyl ketone	UG/KG	12 U	12 U	12 U	5 U	5 U	5 J	12 U	12 U	12 U	
Methyl isobutyl ketone	UG/KG	12 U	12 U	12 U	5 U	5 U	6 U	12 U	12 U	12 U	
Methylene chloride	UG/KG	5.9 U	6 U	5.8 U	5 U	2 J	6 U	5.8 U	5.8 U	5.9 U	
Ortho Xylene	UG/KG	5.9 U	6 U	5.8 U				5.8 U	5.8 U	5.9 U	
Styrene	UG/KG				5 U	5 U	6 U				
Tetrachloroethene	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U	
Toluene	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U	
Total BTEX	MG/KG										
Total Xylenes	UG/KG				5 U	5 U	6 U				
Trans-1,2-Dichloroethene	UG/KG	5.9 U	6 U	5.8 U	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U	
Trans-1,3-Dichloropropene	UG/KG				5 U	5 U	6 U				
Trichloroethene	UG/KG	2 J	6 U	2.6 J	5 U	5 U	6 U	5.8 U	5.8 U	5.9 U	
Trichlorofluoromethane	UG/KG				5 U	5 U	6 U				
Vinyl chloride	UG/KG	12 U	12 U	12 U	5 U	5 U	6 U	12 U	12 U	12 U	
Semivolatile Organics											
1,1'-Biphenyl	UG/KG				1900 U	1800 U	430 U				
1,2,4-Trichlorobenzene	UG/KG										
1,2-Dichlorobenzene	UG/KG										
1,3-Dichlorobenzene	UG/KG										
1,4-Dichlorobenzene	UG/KG										
2,2'-oxybis(1-Chloropropane)	UG/KG				1900 U	1800 U	430 U				
2,4,5-Trichlorophenol	UG/KG	1900 U	4000 U	1900 U	4800 U	4600 U	1100 U	1900 U	1900 U	780 U	
2,4,6-Trichlorophenol	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U	
2,4-Dichlorophenol	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U	
2,4-Dimethylphenol	UG/KG				1900 U	1800 U	430 U				
2,4-Dinitrophenol	UG/KG	10000 U	20000 U	9900 U	4800 U	4600 U	1100 U	9900 U	9900 U	4000 U	
2,4-Dinitrotoluene	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U	
2,6-Dinitrotoluene	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U	
2-Chloronaphthalene	UG/KG				1900 U	1800 U	430 U				
2-Chlorophenol	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U	
2-Methylnaphthalene	UG/KG	1900 U	4000 U	340 J	1900 U	1800 U	95 J	1900 U	1900 U	780 U	
2-Methylphenol	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U	
2-Nitraniline	UG/KG	10000 U	20000 U	9900 U	4800 U	4600 U	1100 U	9900 U	9900 U	4000 U	
2-Nitrophenol	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U	

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-007-4	WS-59-01-007-7	WS-59-01-007-9	WS-59-01-011-3	WS-59-01-011-4	WS-59-01-012-1	WS-59-01-013-1	WS-59-01-013-3	WS-59-01-013-4
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-007-4	WS-59-01-007-7	WS-59-01-007-9	WS-59-01-011-3	WS-59-01-011-4	WS-59-01-012-1	WS-59-01-013-1	WS-59-01-013-3	WS-59-01-013-4
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
3,3'-Dichlorobenzidine	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U
3-Nitroaniline	UG/KG	10000 U	20000 U	9900 U	4800 U	4600 U	1100 U	9900 U	9900 U	4000 U
4-(6-Dinitro-2-methylphenol	UG/KG				4800 U	4600 U	1100 U			
4-Bromophenyl phenyl ether	UG/KG				1900 U	1800 U	430 U			
4-Chloro-3-methylphenol	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U
4-Chloroaniline	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U
4-Chlorophenyl phenyl ether	UG/KG				1900 U	1800 U	430 U			
4-Methylphenol	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U
4-Nitroaniline	UG/KG				4800 U	4600 U	1100 U			
4-Nitrophenol	UG/KG	10000 U	20000 U	9900 U	4800 U	4600 U	1100 U	9900 U	9900 U	4000 U
Acenaphthene	UG/KG	1900 U	4000 U	590 J	1900 U	1800 U	160 J	850 J	370 J	110 J
Acenaphthylene	UG/KG	850 J	690 J	740 J	900 J	710 J	360 J	1400 J	620 J	330 J
Acetophenone	UG/KG				1900 U	1800 U	430 U			
Aniline	UG/KG	1900 U	4000 U	1900 U				1900 U	1900 U	780 U
Anthracene	UG/KG	730 J	810 J	1400 J	750 J	640 J	660 J	3500	1100 J	370 J
Atrazine	UG/KG				1900 U	1800 U	430 U			
Benzaldehyde	UG/KG				1900 U	1800 U	430 U			
Benzo(a)anthracene	UG/KG	2000 J	2200 J	2900	2600	2200	1800 NJ	7800	2800	1100
Benzo(a)pyrene	UG/KG	2400	2500 J	3000	3000	2500	2100 J	7000	2900	1400
Benzo(h)fluoranthene	UG/KG	1800 J	2000 J	2100	3500	2900	2300 J	5200	2300	1100
Benzo(g)h)perylene	UG/KG	1600 J	1200 J	2000	1900	1600 J	1100 J	3900	1800 J	1000
Benzo(k)fluoranthene	UG/KG	1800 J	2000 J	2400	1500 J	1100 J	980 J	5600	2500	1100
Benzoic Acid	UG/KG	10000 U	20000 U	9900 U				9900 UJ	9900 UJ	4000 U
Bis(2-Chloroethoxy)methane	UG/KG				1900 U	1800 U	430 U			
Bis(2-Chloroethyl)ether	UG/KG				1900 U	1800 U	430 U			
Bis(2-Chloroisopropyl)ether	UG/KG									
Bis(2-Ethylhexyl)phthalate	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U
Butylbenzylphthalate	UG/KG	1900 UJ	4000 UJ	1900 U	1900 U	1800 U	430 U	1900 UJ	1900 UJ	780 UJ
Caprolactam	UG/KG				1900 U	1800 U	430 U			
Carbazole	UG/KG				1900 U	1800 U	110 J			
Chrysene	UG/KG	2000	2200 J	2900	2500	2100	1800 J	7500	2900	1300
Di-n-butylphthalate	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U
Di-n-octylphthalate	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U
Dibenz(a,h)anthracene	UG/KG	510 J	460 J	640 J	520 J	410 J	320 J	1400 J	620 J	310 J
Dibenzofuran	UG/KG	1900 U	4000 U	400 J	1900 U	1800 U	86 J	550 J	250 J	780 U
Diethyl phthalate	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U
Dimethylphthalate	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U
Fluoranthene	UG/KG	3700	4400	5600	3600	3100	3300 J	16000	5200	1800
Fluorene	UG/KG	1900 U	4000 U	690 J	1900 U	1800 U	240 J	1600 J	560 J	130 J
Hexachlorobenzene	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U
Hexachlorobutadiene	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U
Hexachlorocyclopentadiene	UG/KG				1900 U	1800 U	430 U			
Hexachloroethane	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U
Indeno(1,2,3-cd)pyrene	UG/KG	1500 J	1300 J	1800 J	1900	1600 J	1200 J	3700 J	1700 J	920 J

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Parameter	Units	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	
		Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isophorone	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	1800 U	430 U	1900 U	1900 U	780 U
N-Nitrosodiphenylamine	UG/KG				1900 U	1800 U	430 U				
N-Nitrosodipropylamine	UG/KG				1900 U	1800 U	430 U				
Naphthalene	UG/KG	1900 U	4000 U	690 J	1900 U	1800 U	110 J	380 J	340 J	100 J	
Nitrobenzene	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U	
Pentachlorophenol	UG/KG	10000 U	20000 U	9900 U	4800 U	4600 U	1100 U	9900 U	9900 U	4000 U	
Phenanthrene	UG/KG	1800 J	1700 J	4000	1500 J	1300 J	1500 J	11000	3400	1000	
Phenol	UG/KG	1900 U	4000 U	1900 U	1900 U	1800 U	430 U	1900 U	1900 U	780 U	
Pyrene	UG/KG	3200	3200 J	5100	5000	4200	3400 J	15000	5100	1700 J	
Pyridine	UG/KG	10000 U	20000 U	9900 U				9900 U	9900 U	4000 U	
Total Unknown PAHs as SV	MG/KG										
Pesticides/PCBs											
4,4'-DDD	UG/KG	19 U	22	56	9 J	6.5 J	10 NJ	22 J	30	20 U	
4,4'-DDE	UG/KG	19 U	32	27	34 NJ	31 NJ	11 NJ	56	59	20 U	
4,4'-DDT	UG/KG	19 U	34	78	22	38 J	4.9 J	32	19 U	20 U	
Aldrin	UG/KG	10 U	10 U	9.9 U	2 U	1.8 U	2.2 U	10 U	9.9 U	10 U	
Alpha-BHC	UG/KG	10 U	10 U	9.9 U	2 U	1.8 U	2.2 U	10 U	9.9 U	10 U	
Alpha-Chlordane	UG/KG	10 U	10 U	9.9 U	16	21	2.2 U	10 U	9.9 U	10 U	
Beta-BHC	UG/KG	10 U	10 U	9.9 U	2 U	1.8 U	2.2 U	10 U	9.9 U	10 U	
Delta-BHC	UG/KG	10 U	10 U	9.9 U	2 U	1.8 U	2.2 U	10 U	9.9 U	10 U	
Dieldrin	UG/KG	19 U	20 U	19 U	3.8 U	3.6 U	4.3 U	19 U	19 U	20 U	
Endosulfan I	UG/KG	10 U	10 U	9.9 U	2 U	1.8 U	2.2 U	10 U	9.9 U	10 U	
Endosulfan II	UG/KG	19 U	20 U	19 U	3.8 U	3.6 U	4.3 U	19 U	19 U	20 U	
Endosulfan sulfate	UG/KG	19 U	20 U	19 U	3.8 U	3.6 U	4.3 U	19 U	19 U	20 U	
Endrin	UG/KG	19 U	20 U	19 U	3.8 U	3.6 U	4.3 U	19 U	19 U	20 U	
Endrin aldehyde	UG/KG	19 U	20 U	19 U	3.8 U	3.6 U	4.3 U	19 U	19 U	20 U	
Endrin ketone	UG/KG	19 U	20 U	19 U	38	11 NJ	4.3 U	19 U	19 U	20 U	
Gamma-BHC/Lindane	UG/KG	10 U	10 U	9.9 U	2 U	1.8 U	2.2 U	10 U	9.9 U	10 U	
Gamma-Chlordane	UG/KG	10 U	10 U	9.9 U	7 J	11	2.2 U	10 U	9.9 U	10 U	
Heptachlor	UG/KG	10 U	10 U	9.9 U	2 U	1.8 U	2.2 U	10 U	9.9 U	10 U	
Heptachlor epoxide	UG/KG	10 U	10 U	9.9 U	2 U	1.8 U	2.2 U	10 U	9.9 U	10 U	
Methoxychlor	UG/KG	100 U	100 U	99 U	20 UJ	18 UJ	22 U	99 U	99 U	100 U	
Toxaphene	UG/KG	190 U	200 U	190 U	200 U	180 U	220 U	190 U	190 U	200 U	
Aroclor-1016	UG/KG	39 U	40 U	38 U	38 U	36 U	44 U	39 U	38 U	39 U	
Aroclor-1221	UG/KG	39 U	40 U	38 U	38 U	36 U	44 U	39 U	38 U	39 U	
Aroclor-1232	UG/KG	39 U	40 U	38 U	38 U	36 U	44 U	39 U	38 U	39 U	
Aroclor-1242	UG/KG	39 U	40 U	38 U	38 U	36 U	44 U	39 U	38 U	39 U	
Aroclor-1248	UG/KG	39 U	40 U	38 U	38 U	36 U	44 U	39 U	38 U	39 U	
Aroclor-1254	UG/KG	39 U	40 U	38 U	38 U	36 U	44 U	39 U	38 U	39 U	
Aroclor-1260	UG/KG	39 U	40 U	38 U	38 U	36 U	44 U	39 U	38 U	39 U	
Metals											

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-007-4	WS-59-01-007-7	WS-59-01-007-9	WS-59-01-011-3	WS-59-01-011-4	WS-59-01-012-1	WS-59-01-013-1	WS-59-01-013-3	WS-59-01-013-4
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-007-4	WS-59-01-007-7	WS-59-01-007-9	WS-59-01-011-3	WS-59-01-011-4	WS-59-01-012-1	WS-59-01-013-1	WS-59-01-013-3	WS-59-01-013-4
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	10900	10900	11100	11200 J	11300 J	12600 J	11600	11900	12100
Antimony	MG/KG	3.4 UJ	3.4 UJ	3.5 UJ	2.7 J	8.9 J	1.8 J	3.3 UJ	3.4 UJ	3.3 UJ
Arsenic	MG/KG	4.7	4.2	4.7	6.8 J	6.4 J	6.5 J	4.7	5.1	4.6
Barium	MG/KG	91.3	97	90.7	94.2 J	90.5 J	112 J	102	108	89.9
Beryllium	MG/KG	0.29	0.35	0.32	0.6	0.57	0.67	0.34	0.36	0.4
Cadmium	MG/KG	0.8	0.64	0.7	0.47	0.52	0.53	0.4 J	0.4 J	0.35 J
Calcium	MG/KG	56100	32500	36400	41000	62300	19900 J	57400	31600	46400
Chromium	MG/KG	20	20	19.1	17.1 J	17.3 J	18.7 J	18.9	19.2	19.9
Cobalt	MG/KG	9.9	9.5	9.9	10.1 J	9 J	10.7 J	10.6	11.4	10.3
Copper	MG/KG	38.8	39.9	28.4	25.8 J	99.7 J	23.5 J	26.1	26.1	24.8
Cyanide	MG/KG									
Iron	MG/KG	19500	19000	20200	22100	20400	22600 J	20100	22300	23400
Lead	MG/KG	53.6 J	38.2 J	44.6 J	36.6 J	61.8 J	27.9 J	34.4 J	36.3 J	29.4 J
Magnesium	MG/KG	9650	6370	7130	6430 J	8940 J	6490 J	7180	6700	8210
Manganese	MG/KG	507	408	512	516 J	463 J	708 J	570	628	588
Mercury	MG/KG	0.12	0.07	0.07	0.07	0.06	0.07	0.1	0.06	0.05
Nickel	MG/KG	28.9	30	28.9	27 J	26.1	29.2 J	29.6	29.6	29.7
Potassium	MG/KG	1110	1140	1140	1110 J	1580 J	1340 J	1200	1300	1280
Selenium	MG/KG	0.57 UJ	0.57 UJ	0.58 UJ	0.43 UJ	0.45 UJ	0.49 UJ	0.6 J	0.56 UJ	0.55 UJ
Silver	MG/KG	0.57 UJ	0.57 UJ	0.58 UJ	0.85	0.51 J	1.1	0.55 UJ	0.56 UJ	0.55 UJ
Sodium	MG/KG	167	133	126	196 J	383 J	188 J	141	186	169
Thallium	MG/KG	0.57 UJ	0.57 UJ	0.67 J	0.22 UJ	0.22 UJ	0.25 UJ	0.99 J	0.92 J	0.88 J
Vanadium	MG/KG	19.5	19	20.5	18.1 J	19.9 J	21.9 J	21.1	22.5	20
Zinc	MG/KG	92.4	104	91.6	84 J	83.5 J	82 J	88.4 J	85.2 J	84.5 J

Notes)

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

UJ = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected, the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-013-5	WS-59-01-013-6	WS-59-01-013-7	WS-59-01-014-1	WS-59-01-014-2	WS-59-01-014-3	WS-59-01-014-4	WS-59-01-015-1	WS-59-01-015-10
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-013-5	WS-59-01-013-6	WS-59-01-013-7	WS-59-01-014-1	WS-59-01-014-2	WS-59-01-014-3	WS-59-01-014-4	WS-59-01-015-1	WS-59-01-015-10
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatle Organics										
1,1,1-Trichloromethane	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
1,1,2,2-Tetrachloroethane	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
1,1,2-Trichloroethane	UG/KG				6 U	6 U	6 U	6 U		
1,1-Dichloroethane	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
1,1-Dichloroethene	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
1,2,3-Trichloropropane	UG/KG	5.8 U	5.8 U	6.1 U					6.2 U	6 U
1,2,4-Trichlorobenzene	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
1,2-Dibromo-3-chloropropane	UG/KG				6 U	6 U	6 U	6 U		
1,2-Dibromoethane	UG/KG				6 U	6 U	6 U	6 U		
1,2-Dichlorobenzene	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
1,2-Dichloroethane	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
1,2-Dichloroethene (total)	UG/KG				6 U	6 U	6 U	6 U		
1,2-Dichloropropane	UG/KG				6 U	6 U	6 U	6 U		
1,3-Dichlorobenzene	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
1,3-Dichloropropane	UG/KG	5.8 U	5.8 U	6.1 U					6.2 U	6 U
1,4-Dichlorobenzene	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
Acetone	UG/KG	23 U	23 U	25 U	6 U	15 U	110 U	6 U	25 U	24 U
Benzene	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
Bromodichloromethane	UG/KG				6 U	6 U	6 U	6 U		
Bromoform	UG/KG				6 U	6 U	6 U	6 U		
Carbon disulfide	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
Carbon tetrachloride	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
Chlorobenzene	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
Chlorodibromomethane	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
Chloroethane	UG/KG	12 U	12 U	12 U	6 U	6 U	6 U	6 U	12 U	12 U
Chloroform	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
Cis-1,2-Dichloroethene	UG/KG				6 U	6 U	6 U	6 U		
Cis-1,3-Dichloropropene	UG/KG				6 U	6 U	6 U	6 U		
Cyclohexane	UG/KG				6 U	6 U	6 U	6 U		
Dichlorodifluoromethane	UG/KG				6 U	6 U	6 U	6 U		
Ethyl benzene	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-013-5	WS-59-01-013-6	WS-59-01-013-7	WS-59-01-014-1	WS-59-01-014-2	WS-59-01-014-3	WS-59-01-014-4	WS-59-01-015-1	WS-59-01-015-10
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-013-5	WS-59-01-013-6	WS-59-01-013-7	WS-59-01-014-1	WS-59-01-014-2	WS-59-01-014-3	WS-59-01-014-4	WS-59-01-015-1	WS-59-01-015-10
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isopropylbenzene	UG/KG				6 U	6 U	6 U	6 U		
Meta/Para Xylene	UG/KG	5.8 U	5.8 U	6.1 U					6.2 U	6 U
Methyl Acetate	UG/KG				6 U	6 U	6 U	6 U		
Methyl Tertiary Ether	UG/KG				6 U	6 U	6 U	6 U		
Methyl bromide	UG/KG				6 U	6 U	6 U	6 U		
Methyl butyl ketone	UG/KG				6 U	6 U	6 U	6 U		
Methyl chloride	UG/KG				6 U	6 U	6 U	6 U		
Methyl cyclohexane	UG/KG				6 U	6 U	6 U	6 U		
Methyl ethyl ketone	UG/KG	12 U	12 U	12 U	6 U	6 U	8 U	6 U	12 U	12 U
Methyl isobutyl ketone	UG/KG	12 U	12 U	12 U	6 U	6 U	6 U	6 U	12 U	12 U
Methylene chloride	UG/KG	1.3 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
Ortho Xylene	UG/KG	5.8 U	5.8 U	6.1 U					6.2 U	6 U
Styrene	UG/KG				6 U	6 U	6 U	6 U		
Tetrachloroethene	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
Toluene	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
Total BTEX	MG/KG									
Total Xylenes	UG/KG				6 U	6 U	6 U	6 U		
Trans-1,2-Dichloroethene	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
Trans-1,3-Dichloropropene	UG/KG				6 U	6 U	6 U	6 U		
Trichloroethene	UG/KG	5.8 U	5.8 U	6.1 U	6 U	6 U	6 U	6 U	6.2 U	6 U
Trichlorofluoromethane	UG/KG				6 U	6 U	6 U	6 U		
Vinyl chloride	UG/KG	12 U	12 U	12 U	6 U	6 U	6 U	6 U	12 U	12 U
Semivolatile Organics										
1,1'-Biphenyl	UG/KG				400 U	400 U	410 U	410 U		
1,2,4-Trichlorobenzene	UG/KG									
1,2-Dichlorobenzene	UG/KG									
1,3-Dichlorobenzene	UG/KG									
1,4-Dichlorobenzene	UG/KG									
2,2'-oxybis(1-Chloropropane)	UG/KG				400 U	400 U	410 U	410 U		
2,4,5-Trichlorophenol	UG/KG	1900 U	1900 U	810 U	1000 U	1000 U	1000 U	1000 U	2000 U	2000 U
2,4,6-Trichlorophenol	UG/KG	1900 U	1900 U	810 U	400 U	400 U	410 U	410 U	2000 U	2000 U
2,4-Dichlorophenol	UG/KG	1900 U	1900 U	810 U	400 U	400 U	410 U	410 U	2000 U	2000 U
2,4-Dimethylphenol	UG/KG				400 U	400 U	410 U	410 U		
2,4-Dinitrophenol	UG/KG	9900 U	9800 U	4200 U	1000 U	1000 U	1000 U	1000 U	11000 U	10000 U
2,4-Dinitrotoluene	UG/KG	1900 U	1900 U	810 U	400 U	400 U	410 U	410 U	2000 U	2000 U
2,6-Dinitrotoluene	UG/KG	1900 U	1900 U	810 U	400 U	400 U	410 U	410 U	2000 U	2000 U
2-Chloronaphthalene	UG/KG				400 U	400 U	410 U	410 U		
2-Chlorophenol	UG/KG	1900 U	1900 U	810 U	400 U	400 U	410 U	410 U	2000 U	2000 U
2-Methylnaphthalene	UG/KG	1900 U	1900 U	810 U	400 U	400 U	410 U	410 U	2000 U	2000 U
2-Methylphenol	UG/KG	1900 U	1900 U	810 U	400 U	400 U	410 U	410 U	2000 U	2000 U
2-Nitroaniline	UG/KG	9900 U	9800 U	4200 U	1000 U	1000 U	1000 U	1000 U	11000 U	10000 U
2-Nitrophenol	UG/KG	1900 U	1900 U	810 U	400 U	400 U	410 U	410 U	2000 U	2000 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	WS-59-01-013-5	WS-59-01-013-6	WS-59-01-013-7	WS-59-01-014-1	WS-59-01-014-2	WS-59-01-014-3	WS-59-01-014-4	WS-59-01-015-1	WS-59-01-015-10	WS-59-01-015-10
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	WS-59-01-013-5	WS-59-01-013-6	WS-59-01-013-7	WS-59-01-014-1	WS-59-01-014-2	WS-59-01-014-3	WS-59-01-014-4	WS-59-01-015-1	WS-59-01-015-10	WS-59-01-015-10
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
3,3'-Dichlorobenzidine	UG/KG	1900 U	1900 U	810 U	400 UJ	400 UJ	410 UJ	410 U	2000 UJ	2000 U
3-Nitroaniline	UG/KG	9900 U	9800 U	4200 U	1000 UJ	1000 UJ	1000 U	1000 U	11000 UJ	10000 UJ
4,6-Dinitro-2-methylphenol	UG/KG				1000 U	1000 U	1000 U	1000 U		
4-Bromophenyl phenyl ether	UG/KG				400 U	400 U	410 U	410 U		
4-Chloro-3-methylphenol	UG/KG	1900 U	1900 U	810 U	400 U	400 U	410 U	410 U	2000 U	2000 U
4-Chloroaniline	UG/KG	1900 U	1900 U	810 U	400 UJ	400 UJ	410 UJ	410 U	2000 U	2000 U
4-Chlorophenyl phenyl ether	UG/KG				400 U	400 U	410 U	410 U		
4-Methylphenol	UG/KG	1900 U	1900 U	810 U	54 J	400 U	410 U	410 U	2000 U	2000 U
4-Nitroaniline	UG/KG				1000 U	1000 U	1000 U	1000 U		
4-Nitrophenol	UG/KG	9900 U	9800 U	4200 U	1000 U	1000 U	1000 U	1000 U	11000 U	10000 U
Aconaphthene	UG/KG	1900 U	200 J	810 U	400 U	110 J	410 U	73 J	2000 U	2000 U
Acephenylene	UG/KG	470 J	540 J	280 J	170 J	330 J	120 J	180 J	300 J	430 J
Acetophenone	UG/KG				400 U	400 U	410 U	410 U		
Aniline	UG/KG	1900 U	1900 U	810 U					2000 U	2000 U
Anthracene	UG/KG	510 J	720 J	290 J	77 J	320 J	75 J	360 J	570 J	440 J
Atrazine	UG/KG				400 U	400 U	410 U	410 U		
Benzaldehyde	UG/KG				400 U	400 U	410 U	410 U		
Benzo(a)anthracene	UG/KG	1600 J	2300	1300	490 NJ	1400 NJ	270 J	1000 NJ	3000	1700 J
Benzo(a)pyrene	UG/KG	2000	2700	1400	650 J	2100 J	360 J	890	2700	2000
Benzo(b)fluoranthene	UG/KG	1700 J	2100	1200	830 J	2700 J	450 J	1100	2100	1500 J
Benzo(ghi)perylene	UG/KG	1500 J	2000	940	430 J	1100 J	220 J	380 J	1700 J	1200 J
Benzo(k)fluoranthene	UG/KG	1600 J	2300	1200	440 J	990 J	280 NJ	440	2500	1600 J
Benzoic Acid	UG/KG	9900 UJ	9800 UJ	4200 U					11000 U	10000 U
Bis(2-Chloroethoxy)methane	UG/KG				400 U	400 U	410 U	410 U		
Bis(2-Chloroethyl)ether	UG/KG				400 U	400 U	410 U	410 U		
Bis(2-Chloroisopropyl)ether	UG/KG									
Bis(2-Ethylhexyl)phthalate	UG/KG	1900 U	1900 U	810 U	110 NJ	84 NJ	150 J	49 J	2000 U	2000 U
Butylbenzylphthalate	UG/KG	1900 UJ	1900 UJ	810 UJ	400 UJ	400 UJ	410 UJ	410 U	2000 U	2000 U
Caprolactam	UG/KG				400 U	400 U	410 U	410 U		
Carbazole	UG/KG				400 U	78 J	46 J	55 J		
Chrysene	UG/KG	1800 J	2300	1300	550 J	1600 J	330 J	970	2900	1700 NJ
Di-n-butylphthalate	UG/KG	1900 U	1900 U	810 U	400 U	400 U	410 U	410 U	2000 U	2000 U
Di-n-octylphthalate	UG/KG	1900 U	1900 U	810 U	400 UJ	400 UJ	410 UJ	410 U	2000 U	2000 U
Dibenz(a,h)anthracene	UG/KG	460 J	650 J	320 J	100 J	320 J	66 J	120 J	580 J	390 J
Dibenzofuran	UG/KG	1900 U	1900 U	810 U	400 U	53 J	410 U	410 U	2000 U	2000 U
Diethyl phthalate	UG/KG	1900 U	1900 U	810 U	400 U	400 U	410 U	410 U	2000 U	2000 U
Dimethylphthalate	UG/KG	1900 U	1900 U	810 U	400 U	400 U	410 U	410 U	2000 U	2000 U
Fluoranthene	UG/KG	2900	4100	2900	590	1700	430	2300	4600	3800
Fluorene	UG/KG	1900 U	200 J	110 J	44 J	140 J	47 J	100 J	2000 U	2000 U
Hexachlorobenzene	UG/KG	1900 U	1900 U	810 U	400 U	400 U	410 U	410 U	2000 U	2000 U
Hexachlorocyclopentadiene	UG/KG	1900 U	1900 U	810 U	400 U	400 U	410 U	410 U	2000 U	2000 U
Hexachlorocyclopentadiene	UG/KG				400 U	400 U	410 U	410 U		
Hexachloromethane	UG/KG	1900 U	1900 U	810 U	400 U	400 U	410 U	410 U	2000 U	2000 U
Indeno(1,2,3-cd)pyrene	UG/KG	1300 J	1900 J	880 J	380 J	1100 J	200 J	450	1500 J	1100 J

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-013-5	WS-59-01-013-6	WS-59-01-013-7	WS-59-01-014-1	WS-59-01-014-2	WS-59-01-014-3	WS-59-01-014-4	WS-59-01-015-1	WS-59-01-015-10
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-013-5	WS-59-01-013-6	WS-59-01-013-7	WS-59-01-014-1	WS-59-01-014-2	WS-59-01-014-3	WS-59-01-014-4	WS-59-01-015-1	WS-59-01-015-10
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isophorone	UG/KG	1900 U	1900 U	810 U	400 U	400 U	410 U	410 U	2000 U	2000 U
N-Nitrosodiphenylamine	UG/KG				400 U	400 U	410 U	410 U		
N-Nitrosodipropylamine	UG/KG				400 U	400 U	410 U	410 U		
Naphthalene	UG/KG	1900 U	1900 U	810 U	49 J	63 J	55 J	410 U	2000 U	2000 U
Nitrobenzene	UG/KG	1900 U	1900 U	810 U	400 U	400 U	410 U	410 U	2000 U	2000 U
Pentachlorophenol	UG/KG	9900 U	9800 U	4200 U	1000 U	1000 U	1000 U	1000 U	11000 U	10000 U
Phenanthrene	UG/KG	1300 J	1800 J	1500	240 J	780	270 J	900	1700 J	880 J
Phenol	UG/KG	1900 U	1900 U	810 U	400 U	400 U	410 U	410 U	2000 U	2000 U
Pyrene	UG/KG	2600	3500	2300 J	1100 J	2300	780 J	2100	5100	2600
Pyridine	UG/KG	9900 U	9800 U	4200 U					11000 U	10000 U
Total Unknown PAHs as SV	MG/KG									
Pesticides/PCBs										
4,4'-DDD	UG/KG	19 U	19 U	20 U	11 J	10 NJ	12	16 J	20 U	20 U
4,4'-DDE	UG/KG	23	19 U	20 U	56 J	18 NJ	38 J	19	20 U	20 U
4,4'-DDT	UG/KG	26	39	20 U	8.6	4 U	8	34	20 U	20 U
Aldrin	UG/KG	10 U	9.8 U	10 U	2 U	2.1 U	2.1 U	2.1 U	11 U	10 U
Alpha-BHC	UG/KG	10 U	9.8 U	10 U	2 U	2.1 U	2.1 U	2.1 U	11 U	10 U
Alpha-Chlordane	UG/KG	10 U	9.8 U	10 U	2 U	2.1 U	2.1 U	2.1 U	11 U	10 U
Beta-BHC	UG/KG	10 U	9.8 U	10 U	2 U	2.1 U	2.1 U	2.1 U	11 U	10 U
Delta-BHC	UG/KG	10 U	9.8 U	10 U	2 U	2.1 U	2.1 U	2.1 U	11 U	10 U
Dieldrin	UG/KG	19 U	19 U	20 U	4 U	4 U	4.1 U	4.1 U	20 U	20 U
Endosulfan I	UG/KG	10 U	9.8 U	10 U	2 U	2.1 U	2.1 U	2.1 U	11 U	10 U
Endosulfan II	UG/KG	19 U	19 U	20 U	4 U	4 U	4.1 U	4.1 U	20 U	20 U
Endosulfan sulfate	UG/KG	19 U	19 U	20 U	4 U	4 U	4.1 U	4.1 U	20 U	20 U
Endrin	UG/KG	19 U	19 U	20 U	4 U	4 U	4.1 U	4.1 U	20 U	20 U
Endrin aldehyde	UG/KG	19 U	19 U	20 U	4 U	4 U	4.1 U	4.1 U	20 U	20 U
Endrin ketone	UG/KG	19 U	19 U	20 U	4 U	4 U	4.1 U	4.1 U	20 U	20 U
Gamma-BHC/Lindane	UG/KG	10 U	9.8 U	10 U	2 U	2.1 U	2.1 U	2.1 U	11 U	10 U
Gamma-Chlordane	UG/KG	10 U	9.8 U	10 U	2 U	2.1 U	2.1 U	2.1 U	11 U	10 U
Heptachlor	UG/KG	10 U	9.8 U	10 U	2 U	2.1 U	2.1 U	2.1 U	11 U	10 U
Heptachlor epoxide	UG/KG	10 U	9.8 U	10 U	2 U	2.1 U	2.1 U	2.1 U	11 U	10 U
Methoxychlor	UG/KG	99 U	98 U	100 U	20 U	21 U	21 U	21 U	110 U	100 U
Toxaphene	UG/KG	190 U	190 U	200 U	200 U	210 U	210 U	210 U	200 U	200 U
Aroclor-1016	UG/KG	38 U	38 U	40 U	40 U	41 U	42 U	41 U	41 U	40 U
Aroclor-1221	UG/KG	38 U	38 U	40 U	40 U	41 U	42 U	41 U	41 U	40 U
Aroclor-1232	UG/KG	38 U	38 U	40 U	40 U	41 U	42 U	41 U	41 U	40 U
Aroclor-1242	UG/KG	38 U	38 U	40 U	40 U	41 U	42 U	41 U	41 U	40 U
Aroclor-1248	UG/KG	38 U	38 U	40 U	40 U	41 U	42 U	41 U	41 U	40 U
Aroclor-1254	UG/KG	38 U	38 U	40 U	40 U	41 U	42 U	41 U	41 U	40 U
Aroclor-1260	UG/KG	77	38 U	40 U	40 U	41 U	42 U	41 U	41 U	40 U
Metals										

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-013-5	WS-59-01-013-6	WS-59-01-013-7	WS-59-01-014-1	WS-59-01-014-2	WS-59-01-014-3	WS-59-01-014-4	WS-59-01-015-1	WS-59-01-015-10
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-013-5	WS-59-01-013-6	WS-59-01-013-7	WS-59-01-014-1	WS-59-01-014-2	WS-59-01-014-3	WS-59-01-014-4	WS-59-01-015-1	WS-59-01-015-10
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	11700	11300	12200	12800 J	13000 J	14100 J	12300 J	11800	9840
Antimony	MG/KG	3.4 UJ	3.3 UJ	3.6 UJ	1.9 J	1.6 J	1.8 J	1.7 J	3.7 UJ	3.6 UJ
Arsenic	MG/KG	6	4.6	4.8	6.5 J	6.2 J	7.2 J	5.7 J	5	4.2
Barium	MG/KG	105	94.6	131	109 J	106 J	153 J	139 J	102	91.3
Beryllium	MG/KG	0.4	0.34	0.35	0.71	0.66	0.77	0.67	0.29	0.29
Cadmium	MG/KG	0.58	0.39 J	0.42 J	0.6	0.53	0.63	0.52	0.69	0.65
Calcium	MG/KG	18600	34300	15100	25700 J	35400 J	19700 J	16400 J	27800	65400
Chromium	MG/KG	23.4	19.3	19.2	18.9 J	20 J	19.9 J	17.7 J	19.3	16
Cobalt	MG/KG	11.7	10.4	11.1	10.1 J	11 J	10.9 J	9.6 J	11.2	8.5
Copper	MG/KG	305	40.6	25	28.3 J	28.7 J	28 J	24.4 J	26.6	26.1
Cyanide	MG/KG									
Iron	MG/KG	25400	21000	20500	21800 J	21800 J	23700 J	20400 J	22400	19400
Lead	MG/KG	84.6 J	42 J	32 J	29.5 J	34.5 J	27.8 J	27 J	21.1 J	27.4 J
Magnesium	MG/KG	8040	8630	5780	7370 J	8410 J	5600 J	5510 J	8170	7780
Manganese	MG/KG	655	588	679	797 J	528 J	828 J	703 J	617	466
Mercury	MG/KG	0.07	0.06	0.09	0.08	0.05	0.07 J	0.09 J	0.08	0.06
Nickel	MG/KG	33	29.4	31.9	28.9 J	32.8 J	31.8 J	26.3 J	31.4	25.5
Potassium	MG/KG	1320	1230	1290	1400 J	1400 J	1470 J	1270 J	1210	1060
Selenium	MG/KG	0.78 J	0.55 UJ	0.6 UJ	0.48 UJ	0.41 UJ	0.46 UJ	0.4 UJ	0.61 UJ	0.59 UJ
Silver	MG/KG	0.57 UJ	0.55 UJ	0.6 UJ	0.96	0.7	1.1	0.96	0.61 UJ	0.59 UJ
Sodium	MG/KG	182	203	249	244 J	245 J	281 J	341 J	300	267
Thallium	MG/KG	0.96 J	0.87 J	0.93 J	0.24 UJ	0.2 UJ	0.23 UJ	0.2 UJ	0.84 J	0.63 J
Vanadium	MG/KG	21.2	21	22.2	21.8 J	22.5 J	22.7 J	20 J	19.4	16.4
Zinc	MG/KG	120 J	91.1 J	85.6 J	88.1 J	87.5 J	96.2 J	88.6 J	74.5 J	67.5 J

Note(s):

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis

U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected, the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-015-11	WS-59-01-015-13	WS-59-01-015-18	WS-59-01-015-19	WS-59-01-015-2	WS-59-01-015-5	WS-59-01-015-6	WS-59-01-015-7	WS-59-01-015-9
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-015-11	WS-59-01-015-13	WS-59-01-015-18	WS-59-01-015-19	WS-59-01-015-2	WS-59-01-015-5	WS-59-01-015-6	WS-59-01-015-7	WS-59-01-015-9
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics										
1,1,1-Trichloroethane	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
1,1,2,2-Tetrachloroethane	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
1,1,2-Trichloroethane	UG/KG									
1,1-Dichloroethane	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
1,1-Dichloroethene	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
1,2,3-Trichloropropane	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
1,2,4-Trichlorobenzene	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
1,2-Dibromo-3-chloropropane	UG/KG									
1,2-Dibromoethane	UG/KG									
1,2-Dichlorobenzene	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
1,2-Dichloroethane	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
1,2-Dichloroethene (total)	UG/KG									
1,2-Dichloropropane	UG/KG									
1,3-Dichlorobenzene	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
1,3-Dichloropropane	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
1,4-Dichlorobenzene	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
Acetone	UG/KG	24 U	24 U	15 J	23 U	24 U	24 U	24 U	25 U	24 U
Benzene	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
Bromodichloromethane	UG/KG									
Bromoform	UG/KG									
Carbon disulfide	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
Carbon tetrachloride	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
Chlorobenzene	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
Chlorodibromomethane	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
Chloroethane	UG/KG	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Chloroform	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
Cis-1,2-Dichloroethene	UG/KG									
Cis-1,3-Dichloropropene	UG/KG									
Cyclohexane	UG/KG									
Dichlorodifluoromethane	UG/KG									
Ethyl benzene	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-015-11	WS-59-01-015-13	WS-59-01-015-18	WS-59-01-015-19	WS-59-01-015-2	WS-59-01-015-5	WS-59-01-015-6	WS-59-01-015-7	WS-59-01-015-9
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-015-11	WS-59-01-015-13	WS-59-01-015-18	WS-59-01-015-19	WS-59-01-015-2	WS-59-01-015-5	WS-59-01-015-6	WS-59-01-015-7	WS-59-01-015-9
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isopropylbenzene	UG/KG									
Meta/Para Xylene	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
Methyl Acetate	UG/KG									
Methyl Tertbutyl Ether	UG/KG									
Methyl bromide	UG/KG									
Methyl butyl ketone	UG/KG									
Methyl chloride	UG/KG									
Methyl cyclohexane	UG/KG									
Methyl ethyl ketone	UG/KG	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Methyl isobutyl ketone	UG/KG	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Methylene chloride	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
Ortho Xylene	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
Styrene	UG/KG									
Tetrachloroethene	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
Toluene	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
Total BTEX	MG/KG									
Total Xylenes	UG/KG									
Trans-1,2-Dichloroethene	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
Trans-1,3-Dichloropropene	UG/KG									
Trichloroethene	UG/KG	6 U	5.9 U	5.9 U	5.8 U	5.9 U	6 U	6 U	6.2 U	5.9 U
Trichlorofluoromethane	UG/KG									
Vinyl chloride	UG/KG	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Semivolatile Organics										
1,1'-Biphenyl	UG/KG									
1,2,4-Trichlorobenzene	UG/KG									
1,2-Dichlorobenzene	UG/KG									
1,3-Dichlorobenzene	UG/KG									
1,4-Dichlorobenzene	UG/KG									
2,2'-oxybis(1-Chloropropane)	UG/KG									
2,4,5-Trichlorophenol	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
2,4,6-Trichlorophenol	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
2,4-Dichlorophenol	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
2,4-Dimethylphenol	UG/KG									
2,4-Dinitrophenol	UG/KG	10000 U	10000 U	10000 U	9800 U	10000 U	10000 U	10000 U	11000 U	10000 U
2,4-Dinitrotoluene	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
2,6-Dinitrotoluene	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
2-Chloronaphthalene	UG/KG									
2-Chlorophenol	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
2-Methylnaphthalene	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	330 U
2-Methylphenol	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
2-Nitroaniline	UG/KG	10000 U	10000 U	10000 U	9800 U	10000 U	10000 U	10000 U	11000 U	10000 U
2-Nitrophenol	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	WS-59-01-015-11	WS-59-01-015-13	WS-59-01-015-18	WS-59-01-015-19	WS-59-01-015-2	WS-59-01-015-5	WS-59-01-015-6	WS-59-01-015-7	WS-59-01-015-9	WS-59-01-015-9
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	WS-59-01-015-11	WS-59-01-015-13	WS-59-01-015-18	WS-59-01-015-19	WS-59-01-015-2	WS-59-01-015-5	WS-59-01-015-6	WS-59-01-015-7	WS-59-01-015-9	WS-59-01-015-9
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Units	I	I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
3,3'-Dichlorobenzidine	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
3-Nitroaniline	UG/KG	10000 U	10000 U	10000 U	9800 U	10000 U	10000 U	10000 U	11000 U	10000 U
4,6-Dinitro-2-methylphenol	UG/KG									
4-Bromophenyl phenyl ether	UG/KG									
4-Chloro-3-methylphenol	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
4-Chloroaniline	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
4-Chlorophenyl phenyl ether	UG/KG									
4-Methylphenol	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
4-Nitroaniline	UG/KG									
4-Nitrophenol	UG/KG	10000 U	10000 U	10000 U	9800 U	10000 U	10000 U	10000 U	11000 U	10000 U
Acenaphthene	UG/KG	2000 U	260 J	390 J	350 J	2000 U	2000 U	230 J	2000 U	2000 U
Acenaphthylene	UG/KG	920 J	590 J	1300 J	1400 J	440 J	540 J	580 J	350 J	660 J
Acetophenone	UG/KG									
Aniline	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
Anthracene	UG/KG	610 J	590 J	1200 J	1400 J	450 J	640 J	910 J	550 J	560 J
Atrazine	UG/KG									
Benzaldehyde	UG/KG									
Benzo(a)anthracene	UG/KG	1900 J	1800 J	3100	3600	1900 J	2200	2700	1700 J	1900 J
Benzo(a)pyrene	UG/KG	2300	2100 J	3600	3800	2000	2500	2900	1800 J	2400
Benzo(b)fluoranthene	UG/KG	1800 J	1600 J	2900	2900	1700 J	2000 J	2200	1400 J	1900 J
Benzo(ghi)perylene	UG/KG	1500 J	1400 J	1900 J	1900	1400 J	1700 J	1900 J	1100 J	1500 J
Benzo(k)fluoranthene	UG/KG	1800 J	1700 J	3000	3100	1700 J	2100	2300	1400 J	1800 J
Benzoic Acid	UG/KG	10000 U	10000 U	10000 U	9800 U	10000 U	10000 U	10000 U	11000 U	10000 U
Bis(2-Chloroethoxy)methane	UG/KG									
Bis(2-Chloroethyl)ether	UG/KG									
Bis(2-Chloroisopropyl)ether	UG/KG									
Bis(2-Ethylhexyl)phthalate	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
Butylbenzylphthalate	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
Caprolactam	UG/KG									
Carbazole	UG/KG									
Chrysene	UG/KG	1900 NJ	1800 J	3500	3600	1900 NJ	2300	2700 NJ	1800 NJ	2000
Di-n-butylphthalate	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
Di-n-octylphthalate	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
Dibenz(a,h)anthracene	UG/KG	450 J	430 J	660 J	660 J	410 J	500 J	590 J	360 J	490 J
Dibenzofuran	UG/KG	2000 U	1900 U	240 J	210 J	2000 U	2000 U	2000 U	2000 U	2000 U
Diethyl phthalate	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
Dimethylphthalate	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
Fluoranthene	UG/KG	3200	3000 J	7000	7000	3500	3600	4700	3400	3100
Fluorene	UG/KG	2000 U	280 J	510 J	530 J	2000 U	2000 U	310 J	2000 U	2000 U
Hexachlorobenzene	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
Hexachlorobutadiene	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
Hexachlorocyclopentadiene	UG/KG									
Hexachloroethane	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U
Indeno(1,2,3-cd)pyrene	UG/KG	1400 J	1200 J	1800 J	1800 J	1200 J	1600 J	1800 J	1100 J	1400 J

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Parameter	Units	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
		Location ID	WS-59-01-015-11	WS-59-01-015-13	WS-59-01-015-1R	WS-59-01-015-19	WS-59-01-015-2	WS-59-01-015-3	WS-59-01-015-6	WS-59-01-015-7	WS-59-01-015-9
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	WS-59-01-015-11	WS-59-01-015-13	WS-59-01-015-1R	WS-59-01-015-19	WS-59-01-015-2	WS-59-01-015-3	WS-59-01-015-6	WS-59-01-015-7	WS-59-01-015-9	WS-59-01-015-9	WS-59-01-015-9
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isophorone	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
N-Nitrosodiphenylamine	UG/KG										
N-Nitrosodipropylamine	UG/KG										
Naphthalene	UG/KG	260 J	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Nitrobenzene	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Pentachlorophenol	UG/KG	10000 U	10000 U	10000 U	9800 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U
Phenanthrene	UG/KG	1400 J	1600 J	4300	3300	960 J	1200 J	2400	1400 J	1100 J	1100 J
Phenol	UG/KG	2000 U	1900 U	1900 U	1900 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Pyrene	UG/KG	3200	3400 J	5900 J	6400 J	3100	3700	4200	2900	3000	3000
Pyridine	UG/KG	10000 U	10000 U	10000 U	9800 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U
Total Unknown PAHs as SV	MG/KG										
Pesticides/PCBs											
4,4'-DDD	UG/KG	36 J	19 UJ	89	39 J	20 U	20 U	20 U	20 U	20 U	20 U
4,4'-DDE	UG/KG	20 U	20	39 J	25	20 U	20 U	20 U	30	21	21
4,4'-DDT	UG/KG	30 J	20 J	92	38 J	26 J	22 J	26 J	52 J	29 J	29 J
Aldrin	UG/KG	10 U	10 U	10 U	9.8 U	10 U	10 U	10 U	11 U	10 U	10 U
Alpha-BHC	UG/KG	10 U	10 U	10 U	9.8 U	10 U	10 U	10 U	11 U	10 U	10 U
Alpha-Chlordane	UG/KG	10 U	10 U	10 U	9.8 U	10 U	10 U	10 U	11 U	10 U	10 U
Beta-BHC	UG/KG	10 U	10 U	10 U	9.8 U	10 U	10 U	10 U	11 U	10 U	10 U
Delta-BHC	UG/KG	10 U	10 U	10 U	9.8 U	10 U	10 U	10 U	11 U	10 U	10 U
Dieldrin	UG/KG	20 U	19 U	19 U	19 U	20 U	20 U	20 U	20 U	20 U	20 U
Endosulfan I	UG/KG	10 U	10 U	10 U	9.8 U	10 U	10 U	10 U	11 U	10 U	10 U
Endosulfan II	UG/KG	20 U	19 U	19 U	19 U	20 U	20 U	20 U	20 U	20 U	20 U
Endosulfan sulfate	UG/KG	20 U	19 U	19 U	19 U	20 U	20 U	20 U	20 U	20 U	20 U
Endrin	UG/KG	20 U	19 U	19 U	19 U	20 U	20 U	20 U	20 U	20 U	20 U
Endrin aldehyde	UG/KG	20 U	19 U	19 U	19 U	20 U	20 U	20 U	20 U	20 U	20 U
Endrin ketone	UG/KG	20 U	19 U	19 U	19 U	20 U	20 U	20 U	20 U	20 U	20 U
Gamma-BHC/Lindane	UG/KG	10 U	10 U	10 U	9.8 U	10 U	10 U	10 U	11 U	10 U	10 U
Gamma-Chlordane	UG/KG	10 U	10 U	10 U	9.8 U	10 U	10 U	10 U	11 U	10 U	10 U
Heptachlor	UG/KG	10 U	10 U	10 U	9.8 U	10 U	10 U	10 U	11 U	10 U	10 U
Heptachlor epoxide	UG/KG	10 U	10 U	10 U	9.8 U	10 U	10 U	10 U	11 U	10 U	10 U
Methoxychlor	UG/KG	100 U	100 U	100 U	98 U	100 U	100 U	100 U	110 U	100 U	100 U
Toxaphene	UG/KG	200 U	190 U	190 U	190 U	200 U	200 U	200 U	200 U	200 U	200 U
Aroclor-1016	UG/KG	39 U	39 U	39 U	38 U	39 U	40 U	40 U	41 U	39 U	39 U
Aroclor-1221	UG/KG	39 U	39 U	39 U	38 U	39 U	40 U	40 U	41 U	39 U	39 U
Aroclor-1232	UG/KG	39 U	39 U	39 U	38 U	39 U	40 U	40 U	41 U	39 U	39 U
Aroclor-1242	UG/KG	39 U	39 U	39 U	38 U	39 U	40 U	40 U	41 U	39 U	39 U
Aroclor-1248	UG/KG	39 U	39 U	39 U	38 U	39 U	40 U	40 U	41 U	39 U	39 U
Aroclor-1254	UG/KG	39 U	39 U	39 U	38 U	39 U	40 U	40 U	41 U	39 U	39 U
Aroclor-1260	UG/KG	39 U	39 U	39 U	38 U	39 U	40 U	40 U	41 U	39 U	39 U
Metals											

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-015-11	WS-59-01-015-13	WS-59-01-015-18	WS-59-01-015-19	WS-59-01-015-2	WS-59-01-015-5	WS-59-01-015-6	WS-59-01-015-7	WS-59-01-015-9
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-015-11	WS-59-01-015-13	WS-59-01-015-18	WS-59-01-015-19	WS-59-01-015-2	WS-59-01-015-5	WS-59-01-015-6	WS-59-01-015-7	WS-59-01-015-9
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	10200	10900	12900	11200	10400	11700	10800	10900	9880
Antimony	MG/KG	11.1 J	14.3 J	7.9	3.2 UJ	3.5 UJ	3.6 UJ	3.6 UJ	3.6 UJ	3.4 UJ
Arsenic	MG/KG	4.7	5.8 J	4.3	4.7	4.9	4.1	4.1	4.8	3.9
Barium	MG/KG	104	109	135	96.5	95.4	111	102	112	89.4
Beryllium	MG/KG	0.29	0.5	0.4	0.3	0.29	0.14	0.33	0.31	0.26
Cadmium	MG/KG	0.66	0.41 J	0.59	0.48 J	0.39 J	0.7	0.67	0.81	0.62
Calcium	MG/KG	41600	48800	63200	86800	54200	33200	26300	37100	41800
Chromium	MG/KG	16.9	20.7 J	20.4	17.9	17.7	19.1	18	17	16.6
Cobalt	MG/KG	9	11.5	9.9	10	8.2	9.8	9.8	10.2	9.1
Copper	MG/KG	22.8	42.1 J	32.6	30.8	23.3	27.9	26.2	27.7	23.5
Cyanide	MG/KG									
Iron	MG/KG	19800	24200	21500	20100	20400	22500	19900	19400	20100
Lead	MG/KG	31.8 J	52.4 J	57.7 J	80.8 J	21.4 J	28.8 J	30.5 J	33.7 J	23.7 J
Magnesium	MG/KG	7200	9820 J	7630	8930	7720	6820	7200	6480	8540
Manganese	MG/KG	446	1010 J	568	492	529	590	539	577	463
Mercury	MG/KG	0.02 J	0.06	0.08	0.04	0.05	0.07	0.07	0.07	0.09
Nickel	MG/KG	25	35.7 J	27.5	27.7	22.8	29.3	27.4	27.1	26.2
Potassium	MG/KG	1020	1140	1210	1150	1140	1280	1120	1300	1050
Selenium	MG/KG	0.57 UJ	1.1 UJ	0.57 UJ	0.54 UJ	0.59 UJ	0.6 UJ	0.59 UJ	0.84 J	0.57 UJ
Silver	MG/KG	0.57 UJ	0.57 UJ	0.57 UJ	0.54 UJ	0.59 UJ	0.6 UJ	0.59 UJ	0.61 UJ	0.57 UJ
Sodium	MG/KG	120	240 J	130	106	243	294	267	343	222
Thallium	MG/KG	0.57 UJ	0.93 J	0.91 J	0.86 J	0.59 UJ	0.73 J	0.59 UJ	0.65 J	0.62 J
Vanadium	MG/KG	17.9	19.3	22	20	18.2	18.6	18.6	20.5	16.3
Zinc	MG/KG	80.6 J	137 J	115 J	77.6 J	74.7 J	86.7 J	83.6 J	80.6 J	67.8 J

Notes

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis
- U = compound was not detected
- J = the reported value is an estimated concentration
- UJ = the compound was not detected, the associated reporting limit is approximate
- R = the data was rejected in the data validating process
- NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-016-11	WS-59-01-016-12	WS-59-01-016-15	WS-59-01-016-16	WS-59-01-016-17	WS-59-01-016-7	WS-59-01-016-8	WS-59-01-017-1	WS-59-01-017-2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-016-11	WS-59-01-016-12	WS-59-01-016-15	WS-59-01-016-16	WS-59-01-016-17	WS-59-01-016-7	WS-59-01-016-8	WS-59-01-017-1	WS-59-01-017-2
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics										
1,1,1-Trichloroethane	UG/KG	5.7 U	5.9 U	5.8 U	5.9 U	5.8 U	6 U	5.9 U	5.8 U	5.8 U
1,1,2,2-Tetrachloroethane	UG/KG	5.7 UJ	5.9 U	5.8 UJ	5.9 UJ	5.8 U	6 UJ	5.9 U	5.8 U	5.8 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5.7 U	5.9 U	5.8 UJ	5.9 UJ	5.8 U	6 U	5.9 U	5.8 U	5.8 U
1,1,2-Trichloroethane	UG/KG									
1,1-Dichloroethane	UG/KG	5.7 U	5.9 U	5.8 U	5.9 U	5.8 U	6 U	5.9 U	5.8 U	5.8 U
1,1-Dichloroethene	UG/KG	5.7 U	5.9 U	5.8 U	5.9 U	5.8 U	6 U	5.9 U	5.8 U	5.8 U
1,2,3-Trichloropropane	UG/KG	5.7 UJ	5.9 U	5.8 U	5.9 U	5.8 U	6 UJ	5.9 U	5.8 U	5.8 U
1,2,4-Trichlorobenzene	UG/KG	5.7 UJ	5.9 U	5.8 U	5.9 U	5.8 U	6 UJ	5.9 U	5.8 U	5.8 U
1,2-Dibromo-3-chloropropane	UG/KG									
1,2-Dibromoethane	UG/KG									
1,2-Dichlorobenzene	UG/KG	5.7 UJ	5.9 U	5.8 U	5.9 U	5.8 U	6 UJ	5.9 U	5.8 U	5.8 U
1,2-Dichloroethane	UG/KG	5.7 U	5.9 U	5.8 U	5.9 U	5.8 U	6 U	5.9 U	5.8 U	5.8 U
1,2-Dichloroethene (total)	UG/KG									
1,3-Dichloropropane	UG/KG									
1,3-Dichlorobenzene	UG/KG	5.7 UJ	5.9 U	5.8 U	5.9 U	5.8 U	6 UJ	5.9 U	5.8 U	5.8 U
1,3-Dichloropropane	UG/KG	5.7 U	5.9 U	5.8 U	5.9 U	5.8 U	6 U	5.9 U	5.8 U	5.8 U
1,4-Dichlorobenzene	UG/KG	5.7 UJ	5.9 U	5.8 U	5.9 U	5.8 U	6 UJ	5.9 U	5.8 U	5.8 U
Acetone	UG/KG	24	24 U	23 U	23 U	23 U	32	24 U	23 U	23 U
Benzene	UG/KG	5.7 U	5.9 U	5.8 U	5.9 U	5.8 U	6 U	5.9 U	5.8 U	5.8 U
Bromodichloromethane	UG/KG									
Bromoform	UG/KG									
Carbon disulfide	UG/KG	5.7 U	5.9 U	5.8 U	5.9 U	5.8 U	6 U	5.9 U	5.8 U	5.8 U
Carbon tetrachloride	UG/KG	5.7 U	5.9 U	5.8 U	5.9 U	5.8 U	6 U	5.9 U	5.8 U	5.8 U
Chlorobenzene	UG/KG	5.7 U	5.9 U	5.8 U	5.9 U	5.8 U	6 U	5.9 U	5.8 U	5.8 U
Chlorodibromomethane	UG/KG	5.7 U	5.9 U	5.8 U	5.9 U	5.8 U	6 U	5.9 U	5.8 U	5.8 U
Chloroethane	UG/KG	11 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Chloroform	UG/KG	5.7 U	5.9 U	5.8 U	5.9 U	5.8 U	6 U	5.9 U	5.8 U	5.8 U
Cis-1,2-Dichloroethane	UG/KG									
Cis-1,3-Dichloropropene	UG/KG									
Cyclohexane	UG/KG									
Dichlorodifluoromethane	UG/KG									
Ethyl benzene	UG/KG	5.7 U	5.9 U	5.8 U	5.9 U	5.8 U	6 U	5.9 U	5.8 U	5.8 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-016-11	WS-59-01-016-12	WS-59-01-016-15	WS-59-01-016-16	WS-59-01-016-17	WS-59-01-016-7	WS-59-01-016-8	WS-59-01-017-1	WS-59-01-017-2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-016-11	WS-59-01-016-12	WS-59-01-016-15	WS-59-01-016-16	WS-59-01-016-17	WS-59-01-016-7	WS-59-01-016-8	WS-59-01-017-1	WS-59-01-017-2
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isopropylbenzene	UG/KG									
Meta/Para Xylene	UG/KG	5.7 U	5.9 U	5.8 U	5.9 U	5.8 U	6 U	5.9 U	5.8 U	5.8 U
Methyl Acetate	UG/KG									
Methyl Tertiary Ether	UG/KG									
Methyl bromide	UG/KG									
Methyl butyl ketone	UG/KG									
Methyl chloride	UG/KG									
Methyl cyclohexane	UG/KG									
Methyl ethyl ketone	UG/KG	11 U	12 U	12 U	12 U	12 U	3 U	12 U	12 U	12 U
Methyl isobutyl ketone	UG/KG	11 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Methylene chloride	UG/KG	5.7 U	5.9 U	5.8 U	5.9 U	5.8 U	6 U	5.9 U	5.8 U	5.8 U
Ortho Xylene	UG/KG	5.7 U	5.9 U	5.8 U	5.9 U	5.8 U	6 U	5.9 U	5.8 U	5.8 U
Styrene	UG/KG									
Tetrachloroethene	UG/KG	5.7 U	5.9 U	5.8 U	5.9 U	5.1 U	6 U	5.9 U	6.4	5.8 U
Toluene	UG/KG	5.7 U	5.9 U	5.8 U	5.9 U	5.8 U	6 U	5.9 U	5.8 U	5.8 U
Total BTEX	MG/KG									
Total Xylenes	UG/KG									
Trans-1,2-Dichloroethene	UG/KG	5.7 U	5.9 U	5.8 U	5.9 U	5.8 U	6 U	5.9 U	5.8 U	5.8 U
Trans-1,3-Dichloropropene	UG/KG									
Trichloroethene	UG/KG	5.7 U	5.9 U	5.8 U	5.9 U	5.8 U	6 U	5.9 U	5.8 U	5.8 U
Trichlorofluoromethane	UG/KG									
Vinyl chloride	UG/KG	11 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Semivolatile Organics										
1,1'-Biphenyl	UG/KG									
1,2,4-Trichlorobenzene	UG/KG									
1,2-Dichlorobenzene	UG/KG									
1,3-Dichlorobenzene	UG/KG									
1,4-Dichlorobenzene	UG/KG									
2,2-dicyclopropyl-1-chloropropane)	UG/KG									
2,4,5-Trichlorophenol	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
2,4,6-Trichlorophenol	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
2,4-Dichlorophenol	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
2,4-Dimethylphenol	UG/KG									
2,4-Dinitrophenol	UG/KG	5900 U	6100 U	5900 U	6000 U	5900 U	10000 U	6000 U	9900 U	9800 U
2,4-Dinitrotoluene	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
2,6-Dinitrotoluene	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
2-Chloronaphthalene	UG/KG									
2-Chlorophenol	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
2-Methylnaphthalene	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
2-Methylphenol	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
2-Nitroaniline	UG/KG	5900 U	6100 U	5900 U	6000 U	5900 U	10000 U	6000 U	9900 U	9800 U
2-Nitrophenol	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-016-11	WS-59-01-016-12	WS-59-01-016-15	WS-59-01-016-16	WS-59-01-016-17	WS-59-01-016-7	WS-59-01-016-8	WS-59-01-017-1	WS-59-01-017-2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-016-11	WS-59-01-016-12	WS-59-01-016-15	WS-59-01-016-16	WS-59-01-016-17	WS-59-01-016-7	WS-59-01-016-8	WS-59-01-017-1	WS-59-01-017-2
Sample Depth to Top of Sample ⁽¹⁾		0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample ⁽¹⁾		0	0	0	0	0	0	0	0	0
Sample Date		5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code		SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID		ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
3,3'-Dichlorobenzidine	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
3-Nitroaniline	UG/KG	5900 U	6100 U	5900 U	6000 U	5900 U	10000 U	6000 U	9900 U	9800 U
4,6-Dinitro-2-methylphenol	UG/KG									
4-Bromophenyl phenyl ether	UG/KG									
4-Chloro-3-methylphenol	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
4-Chloroaniline	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
4-Chlorophenyl phenyl ether	UG/KG									
4-Methylphenol	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
4-Nitroaniline	UG/KG									
4-Nitrophenol	UG/KG	5900 U	6100 U	5900 U	6000 U	5900 U	10000 U	6000 U	9900 U	9800 U
Acenaphthene	UG/KG	1100 U	1200 U	1200 U	120 J	290 J	2000 U	1200 U	1900 U	1900 U
Acenaphthylene	UG/KG	1100 U	130 J	230 J	160 J	1400	2000 U	240 J	360 J	540 J
Acetophenone	UG/KG									
Aniline	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
Anthracene	UG/KG	220 J	350 J	250 J	350 J	1100 J	2000 U	240 J	440 J	630 J
Atrazine	UG/KG									
Benzaldehyde	UG/KG									
Benzo(a)anthracene	UG/KG	700 J	1100 J	780 J	1000 J	3100	390 J	810 J	1100 J	1900 J
Benzo(a)pyrene	UG/KG	670 J	940 J	870 J	1000 J	3600	390 J	910 J	1500 J	2100
Benzo(b)fluoranthene	UG/KG	570 J	740 J	670 J	870 J	2600	380 J	700 J	1300 J	1700 J
Benzo(ghi)perylene	UG/KG	500 J	580 J	590 J	680 J	2300	320 J	680 J	1000 J	1300 J
Benzo(k)fluoranthene	UG/KG	630 J	840 J	720 J	900 J	2700	350 J	760 J	1200 J	1800 J
Benzoic Acid	UG/KG	5900 U	6100 U	5900 U	6000 U	5900 U	10000 U	6000 U	9900 U	9800 U
Bis(2-Chloromethoxy)methane	UG/KG									
Bis(2-Chloroethyl)ether	UG/KG									
Bis(2-Chloroisopropyl)ether	UG/KG									
Bis(2-Ethylhexyl)phthalate	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
Butylbenzylphthalate	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
Caprolactam	UG/KG									
Carbazole	UG/KG									
Chrysene	UG/KG	710 J	1100 J	860 J	1200	3000	450 J	900 J	1300 J	2100
Di-n-butylphthalate	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
Di-n-octylphthalate	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
Dibenz(a,h)anthracene	UG/KG	160 J	190 J	150 NJ	210 J	740 J	2000 U	200 J	340 J	420 J
Dibenzofuran	UG/KG	1100 U	1200 U	1200 U	1200 U	160 J	2000 U	1200 U	1900 U	1900 U
Diethyl phthalate	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
Dimethyl phthalate	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
Fluoranthene	UG/KG	1400	2600	1600	2600	5500	730 J	1500	2400	4400
Fluorene	UG/KG	1100 U	1200 U	1200 U	1200 U	300 J	2000 U	1200 U	1900 U	1900 U
Hexachlorobenzene	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
Hexachlorobutadiene	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
Hexachlorocyclopentadiene	UG/KG									
Hexachloroethane	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
Indeno(1,2,3-cd)pyrene	UG/KG	450 J	580 J	530 J	640 J	2100 J	280 J	590 J	950 J	1300 J

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-016-11	WS-59-01-016-12	WS-59-01-016-15	WS-59-01-016-16	WS-59-01-016-17	WS-59-01-016-7	WS-59-01-016-8	WS-59-01-017-1	WS-59-01-017-2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-016-11	WS-59-01-016-12	WS-59-01-016-15	WS-59-01-016-16	WS-59-01-016-17	WS-59-01-016-7	WS-59-01-016-8	WS-59-01-017-1	WS-59-01-017-2
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isophorone	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
N-Nitrosodiphenylamine	UG/KG									
N-Nitrosodipropylamine	UG/KG									
Naphthalene	UG/KG	1100 U	1200 U	1200 U	1200 U	150 J	2000 U	1200 U	1900 U	1900 U
Nitrobenzene	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
Pentachlorophenol	UG/KG	5900 U	6100 U	5900 U	6000 U	5900 U	10000 U	6000 U	9900 U	9800 U
Phenanthrene	UG/KG	810 J	1300	640 J	1400	2500	170 J	680 J	1400 J	2200
Phenol	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	2000 U	1200 U	1900 U	1900 U
Pyrene	UG/KG	1100 J	1900	1200 J	1800	4700	680 J	1400	1700 J	3000
Pyridine	UG/KG	5900 U	6100 U	5900 U	6000 U	5900 U	10000 U	6000 U	9900 U	9800 U
Total Unknown PAHs as SV	MG/KG									
Pesticides/PCBs										
4,4'-DDD	UG/KG	95 U	98 U	96 U	97 U	95 U	99 U	98 U	96 U	95 U
4,4'-DDE	UG/KG	95 U	98 U	96 U	97 U	95 U	99 U	98 U	96 U	95 U
4,4'-DDT	UG/KG	95 U	98 U	96 U	97 U	95 U	99 U	98 U	96 U	95 U
Aldrin	UG/KG	49 U	50 U	49 U	50 U	49 U	51 U	50 U	50 U	49 U
Alpha-BHC	UG/KG	49 U	50 U	49 U	50 U	49 U	51 U	50 U	50 U	49 U
Alpha-Chlordane	UG/KG	49 U	50 U	49 U	50 U	49 U	51 U	50 U	50 U	49 U
Beta-BHC	UG/KG	49 U	50 U	49 U	50 U	49 U	51 U	50 U	50 U	49 U
Delta-BHC	UG/KG	49 U	50 U	49 U	50 U	49 U	51 U	50 U	50 U	49 U
Dieldrin	UG/KG	95 U	98 U	96 U	97 U	95 U	99 U	98 U	96 U	95 U
Endosulfan I	UG/KG	49 U	50 U	49 U	50 U	49 U	51 U	50 U	50 U	49 U
Endosulfan II	UG/KG	95 U	98 U	96 U	97 U	95 U	99 U	98 U	96 U	95 U
Endosulfan sulfate	UG/KG	95 U	98 U	96 U	97 U	95 U	99 U	98 U	96 U	95 U
Endrin	UG/KG	95 U	98 U	96 U	97 U	95 U	99 U	98 U	96 U	95 U
Endrin aldehyde	UG/KG	95 U	98 U	96 U	97 U	95 U	99 U	98 U	96 U	95 U
Endrin ketone	UG/KG	95 U	98 U	96 U	97 U	95 U	99 U	98 U	96 U	95 U
Gamma-BHC/Lindane	UG/KG	49 U	50 U	49 U	50 U	49 U	51 U	50 U	50 U	49 U
Gamma-Chlordane	UG/KG	49 U	50 U	49 U	50 U	49 U	51 U	50 U	50 U	49 U
Heptachlor	UG/KG	49 U	50 U	49 U	50 U	49 U	51 U	50 U	50 U	49 U
Heptachlor epoxide	UG/KG	49 U	50 U	49 U	50 U	49 U	51 U	50 U	50 U	49 U
Methoxychlor	UG/KG	490 U	500 U	490 U	500 U	490 U	510 U	500 U	500 U	490 U
Toxaphene	UG/KG	950 U	980 U	960 U	970 U	950 U	990 U	980 U	960 U	950 U
Aroclor-1016	UG/KG	38 U	39 U	38 U	39 U	38 U	40 U	39 U	38 U	38 U
Aroclor-1221	UG/KG	38 U	39 U	38 U	39 U	38 U	40 U	39 U	38 U	38 U
Aroclor-1232	UG/KG	38 U	39 U	38 U	39 U	38 U	40 U	39 U	38 U	38 U
Aroclor-1242	UG/KG	38 U	39 U	38 U	39 U	38 U	40 U	39 U	38 U	38 U
Aroclor-1248	UG/KG	38 U	39 U	38 U	39 U	38 U	40 U	39 U	38 U	38 U
Aroclor-1254	UG/KG	38 U	39 U	38 U	39 U	38 U	40 U	39 U	38 U	38 U
Aroclor-1260	UG/KG	38 U	39 U	38 U	39 U	38 U	40 U	39 U	38 U	38 U
Metals										

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-016-11	WS-59-01-016-12	WS-59-01-016-15	WS-59-01-016-16	WS-59-01-016-17	WS-59-01-016-7	WS-59-01-016-8	WS-59-01-017-1	WS-59-01-017-2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-016-11	WS-59-01-016-12	WS-59-01-016-15	WS-59-01-016-16	WS-59-01-016-17	WS-59-01-016-7	WS-59-01-016-8	WS-59-01-017-1	WS-59-01-017-2
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	10500	11000	10200	11200	10200	11700	11700	10800	10100
Antimony	MG/KG	3.2 UJ	3.3 UJ	3.5 UJ	3.5 UJ	3.3 UJ	3.5 UJ	3.5 UJ	3.5 UJ	3.4 UJ
Arsenic	MG/KG	4.1	4.3	4.6	5.2	4.2	5.1	5.4	4.1	4.8
Barium	MG/KG	80.2	98	83	89.5	74.2	105	101	78.9	70.2
Beryllium	MG/KG	0.38	0.37	0.29	0.37	0.29	0.35	0.41	0.3	0.27
Cadmium	MG/KG	0.66	0.65	0.59	0.74	0.6	1.5	0.8	0.61	0.7
Calcium	MG/KG	43700	30700	81300 J	40200	71100	53300	46800	40800	65700
Chromium	MG/KG	18.4	17.6	16.8	18.7	16.9	19.7	20.3	18.2	20.6
Cobalt	MG/KG	10	9	9.2	11	8.6	10.9	11.2	9.2	9.2
Copper	MG/KG	27.3 J	25 J	22.2 J	26.1 J	22.3 J	28.8 J	29.6 J	26.4 J	29 J
Cyanide	MG/KG									
Iron	MG/KG	20900	20700	18900	22200	18000	22400	23300	19600	19800
Lead	MG/KG	33.5 J	27.5 J	26 J	32.3 J	43.3 J	43.3 J	43.2 J	37.3 J	63.4 J
Magnesium	MG/KG	6570	10700	7810	7520	9530	7860	7850	7680	9030
Manganese	MG/KG	455	524	459	600	569	626	824	420	422
Mercury	MG/KG	0.07	0.07	0.06	0.06	0.07	0.1	0.08	0.08	0.21
Nickel	MG/KG	31.5	26.6	25.8	30.4	49.5	32	30.2	26.3	34.9
Potassium	MG/KG	1220	1210	1230	1260	1080	1480	1360	1110	1210
Selenium	MG/KG	0.54 UJ	0.55 UJ	0.58 U	0.58 U	0.55 U	0.58 U	0.59 U	0.58 U	0.57 U
Silver	MG/KG	0.54 U	0.55 U	0.64 J	0.58 U	0.85 J	0.58 U	0.59 U	0.58 U	0.57 U
Sodium	MG/KG	435	644	414 J	546	125	819	548	198	165
Thallium	MG/KG	0.65 J	0.6 J	0.61 J	0.58 U	0.55 U	0.63 J	0.6 J	0.58 U	0.57 U
Vanadium	MG/KG	18.6	18.7	18.5	21	19.1	20.2	21.1	20.9	19.5
Zinc	MG/KG	80.5 J	88.9 J	64 J	77 J	66.9 J	85.6 J	91.7 J	72.4 J	82.6 J

Note(s):

(1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)

(2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected, the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-018-1	WS-59-01-018-2	WS-59-01-018-3	WS-59-01-018-4	WS-59-01-018-5	WS-59-01-018-6	WS-59-01-018-7	WS-59-01-018-8	WS-59-02-002-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-018-1	WS-59-01-018-2	WS-59-01-018-3	WS-59-01-018-4	WS-59-01-018-5	WS-59-01-018-6	WS-59-01-018-7	WS-59-01-018-8	WS-59-02-002-1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatiles Organics										
1,1,1-Trichloroethane	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
1,1,2,2-Tetrachloroethane	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
1,1,2-Trichloroethane	UG/KG							6 U	6 U	
1,1-Dichloroethane	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
1,1-Dichloroethane	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
1,2,3-Trichloropropane	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U			5.6 U
1,2,4-Trichlorobenzene	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
1,2-Dibromo-3-chloropropane	UG/KG							6 U	6 U	
1,2-Dibromoethane	UG/KG							6 U	6 U	
1,2-Dichlorobenzene	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
1,2-Dichloroethane	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
1,2-Dichloroethene (total)	UG/KG									
1,2-Dichloropropane	UG/KG							6 U	6 U	
1,3-Dichlorobenzene	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
1,3-Dichloropropane	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U			5.6 U
1,4-Dichlorobenzene	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
Acetone	UG/KG	23 U	24 U	24 U	24 U	23 U	23 U	6 U	6 U	23 U
Benzene	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
Bromodichloromethane	UG/KG							6 U	6 U	
Bromoform	UG/KG							6 U	6 U	
Carbon disulfide	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
Carbon tetrachloride	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
Chlorobenzene	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
Chlorodibromomethane	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
Chloroethane	UG/KG	12 U	12 U	12 U	12 U	11 U	11 U	6 U	6 U	11 U
Chloroform	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
Cis-1,2-Dichloroethene	UG/KG							6 U	6 U	
Cis-1,3-Dichloropropene	UG/KG							6 U	6 U	
Cyclohexane	UG/KG							6 U	6 U	
Dichlorodifluoromethane	UG/KG							6 U	6 U	
Ethyl benzene	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	WS-59-01-018-1	WS-59-01-018-2	WS-59-01-018-3	WS-59-01-018-4	WS-59-01-018-5	WS-59-01-018-6	WS-59-01-018-7	WS-59-01-018-8	WS-59-02-002-1	WS-59-02-002-1
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	WS-59-01-018-1	WS-59-01-018-2	WS-59-01-018-3	WS-59-01-018-4	WS-59-01-018-5	WS-59-01-018-6	WS-59-01-018-7	WS-59-01-018-8	WS-59-02-002-1	WS-59-02-002-1
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
	I	I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isopropylbenzene	UG/KG							6 U	6 U	
Meta/Para Xylene	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U			5.6 U
Methyl Acetate	UG/KG							6 U	6 U	
Methyl Tertiary Ether	UG/KG							6 UJ	6 UJ	
Methyl formide	UG/KG							6 UJ	6 UJ	
Methyl butyl ketone	UG/KG							6 UJ	6 UJ	
Methyl chloride	UG/KG							6 U	6 U	
Methyl cyclohexane	UG/KG							6 U	6 U	
Methyl ethyl ketone	UG/KG	12 U	2.3 J	12 U	12 U	11 U	11 U	6 U	6 U	11 U
Methyl isobutyl ketone	UG/KG	12 U	12 U	12 U	12 U	11 U	11 U	6 UJ	6 UJ	11 U
Methylene chloride	UG/KG	4.9 J	3.9 J	4 J	3.8 J	3.6 J	3.7 U	6 UJ	6 UJ	5.6 U
Ortho Xylene	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U			5.6 U
Styrene	UG/KG							6 U	6 U	
Tetrachloroethane	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
Toluene	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
Total BTEX	MG/KG									
Total Xylenes	UG/KG							6 UJ	6 UJ	
Trans-1,2-Dichloroethane	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
Trans-1,3-Dichloropropane	UG/KG							6 U	6 U	
Trichloroethane	UG/KG	5.8 U	5.9 U	5.9 U	5.9 U	5.6 U	5.7 U	6 U	6 U	5.6 U
Trichlorofluoromethane	UG/KG							6 U	6 U	
Vinyl chloride	UG/KG	12 U	12 U	12 U	12 U	11 U	11 U	6 U	6 U	11 U
Semivolatile Organics										
1,1'-Biphenyl	UG/KG							380 U	370 U	
1,2,4-Trichlorobenzene	UG/KG									
1,2-Dichlorobenzene	UG/KG									
1,3-Dichlorobenzene	UG/KG									
1,4-Dichlorobenzene	UG/KG									
2,2'-oxybis(1-Chloropropane)	UG/KG							380 U	370 U	
2,4,5-Trichlorophenol	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	950 U	930 U	370 U
2,4,6-Trichlorophenol	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
2,4-Dichlorophenol	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
2,4-Dimethylphenol	UG/KG							380 U	370 U	
2,4-Dinitrophenol	UG/KG	5900 U	6000 UJ	6000 U	6000 UJ	5700 UJ	9700 UJ	950 U	930 U	1900 U
2,4-Dinitrotoluene	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
2,6-Dinitrotoluene	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
2-Chloronaphthalene	UG/KG							380 U	370 U	
2-Chlorophenol	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
2-Methylnaphthalene	UG/KG	190 J	290 J	160 J	410 J	1100 U	200 J	100 J	120 J	370 U
2-Methylphenol	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
2-Nitroaniline	UG/KG	5900 U	6000 U	6000 U	6000 U	5700 U	9700 U	950 U	930 U	1900 U
2-Nitrophenol	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Parameter	Units	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
		Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
3,3'-Dichlorobenzidine	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
3-Nitroaniline	UG/KG	5900 U	6000 U	6000 U	6000 U	5700 U	9700 U	950 U	930 U	1900 U
4,6-Dinitro-2-methylphenol	UG/KG							950 U	930 U	
4-Bromophenyl phenyl ether	UG/KG							380 U	370 U	
4-Chloro-3-methylphenol	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
4-Chloroaniline	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
4-Chlorophenyl phenyl ether	UG/KG							380 U	370 U	
4-Methylphenol	UG/KG	1100 U	1200 U	1200 U	130 J	1100 U	1900 U	380 U	370 U	370 U
4-Nitroaniline	UG/KG							950 U	930 U	
4-Nitrophenol	UG/KG	5900 U	6000 U	6000 U	6000 U	5700 U	9700 U	950 U	930 U	1900 U
Acenaphthene	UG/KG	340 J	170 J	1200 U	320 J	1100 U	200 J	89 J	45 J	370 U
Acenaphthylene	UG/KG	880 J	450 J	200 J	1200 U	190 J	340 J	86 J	91 J	370 U
Acetophenone	UG/KG							380 U	370 U	
Aniline	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U			370 U
Anthracene	UG/KG	970 J	570 J	170 J	200 J	210 J	520 J	160 J	120 J	370 U
Atrazine	UG/KG							380 U	370 U	
Benzaldehyde	UG/KG							380 U	370 U	
Benzo(a)anthracene	UG/KG	2600	1400	420 J	340 J	620 J	1400 J	480 J	320 J	370 U
Benzo(a)pyrene	UG/KG	2800	1500	470 J	290 J	660 J	1400 J	500	360 J	370 U
Benzo(h)fluoranthene	UG/KG	2100	1200	410 J	270 J	500 J	1200 J	670	480	370 U
Benzo(g)hperylene	UG/KG	1600	1100 J	320 J	210 J	480 J	920 J	280 J	240 J	370 U
Benzo(k)fluoranthene	UG/KG	2000	1200 J	430 J	290 J	510 J	1100 J	260 J	200 J	370 U
Benzoic Acid	UG/KG	5900 U	6000 U	6000 U	6000 U	5700 U	9700 U			1900 U
Bis(2-Chloroethoxy)methane	UG/KG							380 U	370 U	
Bis(2-Chloroethyl)ether	UG/KG							380 U	370 U	
Bis(2-Chloroisopropyl)ether	UG/KG									
Bis(2-Ethylhexyl)phthalate	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	220 J	100 J	84 J	370 U
Butylbenzylphthalate	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
Caprolactam	UG/KG							380 U	370 U	
Carbazole	UG/KG							120 J	370 U	
Chrysene	UG/KG	2900	1600	480 J	360 J	730 J	1700 J	570	380	370 U
Di-n-butylphthalate	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
Di-n-octylphthalate	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
Dibenz(a,h)anthracene	UG/KG	530 J	220 J	1200 U	1200 U	150 J	270 J	74 J	54 J	370 U
Dibenzofuran	UG/KG	130 NJ	1200 U	1200 U	180 NJ	1100 U	1900 U	59 J	38 J	370 U
Diethyl phthalate	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
Dimethylphthalate	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
Fluoranthene	UG/KG	4900	3600	850 J	930 J	1500 J	3500	1000	650	370 U
Fluorene	UG/KG	350 J	180 NJ	150 NJ	310 NJ	120 NJ	290 J	87 J	55 J	370 U
Hexachlorobenzene	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
Hexachlorobutadiene	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
Hexachlorocyclopentadiene	UG/KG							380 U	370 U	
Hexachloroethane	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
Indeno(1,2,3-cd)pyrene	UG/KG	1500 J	970 J	310 J	190 J	400 J	820 J	320 J	240 J	370 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-018-1	WS-59-01-018-2	WS-59-01-018-3	WS-59-01-018-4	WS-59-01-018-5	WS-59-01-018-6	WS-59-01-018-7	WS-59-01-018-8	WS-59-02-002-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-018-1	WS-59-01-018-2	WS-59-01-018-3	WS-59-01-018-4	WS-59-01-018-5	WS-59-01-018-6	WS-59-01-018-7	WS-59-01-018-8	WS-59-02-002-1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isothorone	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
N-Nitrosodiphenylamine	UG/KG							380 U	370 U	
N-Nitrosodipropylamine	UG/KG							380 U	370 U	
Naphthalene	UG/KG	130 J	1200 U	150 J	1000 J	1100 U	290 J	380 U	370 U	370 U
Nitrobenzene	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
Pentachlorophenol	UG/KG	5900 U	6000 U	6000 U	6000 U	5700 U	9700 U	950 U	930 U	1900 U
Phenanthrene	UG/KG	2000	1400	510 J	940 J	840 J	2400	630	390	370 U
Phenol	UG/KG	1100 U	1200 U	1200 U	1200 U	1100 U	1900 U	380 U	370 U	370 U
Pyrene	UG/KG	4100	2500	610 J	560 J	1000 J	2500	920	640	370 U
Pyridine	UG/KG	5900 U	6000 U	6000 U	6000 U	5700 U	9700 U	380 U	370 U	1900 U
Total Unknown PAHs as SV	MG/KG									
Pesticides/PCBs										
4,4'-DDD	UG/KG	26	20 U	34	73	19 U	38	35	35	19 U
4,4'-DDE	UG/KG	19 U	28	22	55 J	19 U	48 J	55 NJ	62 J	19 U
4,4'-DDT	UG/KG	24 J	20 U	19 U	24	19	19 U	17	13	19 U
Aldrin	UG/KG	9.9 U	10 U	10 U	10 U	9.6 U	9.7 U	2 U	3.8 U	9.6 U
Alpha-BHC	UG/KG	9.9 U	10 U	10 U	10 U	9.6 U	9.7 U	2 U	3.8 U	9.6 U
Alpha-Chlordane	UG/KG	9.9 U	10 U	10 U	10 U	9.6 U	9.7 U	2 U	3.8 U	9.6 U
Beta-BHC	UG/KG	9.9 U	10 U	10 U	10 U	9.6 U	9.7 U	2 U	3.8 U	9.6 U
Delta-BHC	UG/KG	9.9 U	10 U	10 U	10 U	9.6 U	9.7 U	2 U	3.8 U	9.6 U
Dieldrin	UG/KG	19 U	20 U	19 U	20 U	19 U	19 U	3.8 U	7.3 U	19 U
Endosulfan I	UG/KG	9.9 U	10 U	10 U	10 U	9.6 U	9.7 U	2 U	3.8 U	9.6 U
Endosulfan II	UG/KG	19 U	20 U	19 U	20 U	19 U	19 U	3.8 U	7.3 U	19 U
Endosulfan sulfate	UG/KG	19 U	20 U	19 U	20 U	19 U	19 U	3.8 U	7.3 U	19 U
Endrin	UG/KG	19 U	20 U	19 U	20 U	19 U	19 U	3.8 U	7.3 U	19 U
Endrin aldehyde	UG/KG	19 U	20 U	19 U	20 U	19 U	19 U	3.8 U	7.3 U	19 U
Endrin ketone	UG/KG	19 U	20 U	19 U	20 U	19 U	19 U	3.8 U	7.3 U	19 U
Gamma-BHC/Lindane	UG/KG	9.9 U	10 U	10 U	10 U	9.6 U	9.7 U	2 U	3.8 U	9.6 U
Gamma-Chlordane	UG/KG	9.9 U	10 U	10 U	10 U	9.6 U	9.7 U	12 J	3.8 U	9.6 U
Heptachlor	UG/KG	9.9 U	10 U	10 U	10 U	9.6 U	9.7 U	2 U	3.8 U	9.6 U
Heptachlor epoxide	UG/KG	9.9 U	10 U	10 U	10 U	9.6 U	9.7 U	2 U	3.8 U	9.6 U
Methoxychlor	UG/KG	99 U	100 U	100 U	100 U	96 U	97 U	20 U	38 U	96 U
Toxaphene	UG/KG	190 U	200 U	190 U	200 U	190 U	190 U	200 U	380 U	190 U
Aroclor-1016	UG/KG	38 U	39 U	39 U	39 U	37 U	38 U	37 U	37 U	37 U
Aroclor-1221	UG/KG	38 U	39 U	39 U	39 U	37 U	38 U	38 U	37 U	37 U
Aroclor-1232	UG/KG	38 U	39 U	39 U	39 U	37 U	38 U	38 U	37 U	37 U
Aroclor-1242	UG/KG	38 U	39 U	39 U	39 U	37 U	38 U	38 U	37 U	37 U
Aroclor-1248	UG/KG	38 U	39 U	39 U	39 U	37 U	38 U	38 U	37 U	37 U
Aroclor-1254	UG/KG	38 U	39 U	39 U	39 U	37 U	38 U	38 U	37 U	37 U
Aroclor-1260	UG/KG	38 U	39 U	39 U	39 U	37 U	38 U	38 U	37 U	37 U
Metals										

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-018-1	WS-59-01-018-2	WS-59-01-018-3	WS-59-01-018-4	WS-59-01-018-5	WS-59-01-018-6	WS-59-01-018-7	WS-59-01-018-8	WS-59-02-002-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-018-1	WS-59-01-018-2	WS-59-01-018-3	WS-59-01-018-4	WS-59-01-018-5	WS-59-01-018-6	WS-59-01-018-7	WS-59-01-018-8	WS-59-02-002-1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	11900	12600	10500	10000	8790	10300	11700 J	9960 J	10100
Antimony	MG/KG	3.4 UJ	3.5 UJ	3.4 UJ	3.6 UJ	3.2 UJ	3.4 UJ	2.1 J	1.7 J	3.3 UJ
Arsenic	MG/KG	5.1 J	4.7 J	4.7 J	4.1 J	3.6 J	4.4 J	5.6 J	4.7 J	5.5
Barium	MG/KG	91.6	90.7	89.2	80.6	69.7	73.9	82.2 J	69.3 J	94.5
Beryllium	MG/KG	0.3	0.3	0.16	0.11 J	0.05 U	0.16	0.66	0.52	0.23
Cadmium	MG/KG	0.83	0.82	0.67	0.58 J	0.55	1.1	0.78	0.74	0.27 UJ
Calcium	MG/KG	39300 J	32100 J	55200 J	54000 J	75600 J	42100 J	36200 J	60700 J	46800
Chromium	MG/KG	19.9	20.2	16.8	17.6	13.8	21.3	22 J	17.7 J	16
Cobalt	MG/KG	10.4	9.7	8.8	8.2	6.9	9.1	10.2 J	8.6 J	11.3
Copper	MG/KG	31.7	30.1	27.8	26.9	21.2	36.5	40.8 J	32.8 J	21.4
Cyanide	MG/KG									
Iron	MG/KG	23800	23500	19900	18500	16000	19300	19400 J	20200 J	21500 J
Lead	MG/KG	56.2	40.6	39.9	31.1	22.6	67.7	71.6 J	55.1 J	18.3 J
Magnesium	MG/KG	7970	7550	12700	9830	19700	8910	7970 J	10200 J	15400
Manganese	MG/KG	532	533	588	454	460	490	496 J	496 J	725
Mercury	MG/KG	0.09	0.07	0.07	0.08	0.04	0.08	0.09	0.11	0.06
Nickel	MG/KG	27.6	28.5	24.8	24.5	17.6	26.2	32.1 J	25.6 J	28
Potassium	MG/KG	1180	1220	1270	1230	1180	1260	1110 J	1060 J	1020
Selenium	MG/KG	0.57 U	0.59 U	0.56 U	0.59 U	0.53 U	0.56 U	0.43 J	0.39 U	0.55 U
Silver	MG/KG	0.57 U	0.59 U	0.56 U	0.59 U	0.53 U	0.56 U	0.23 J	0.1 U	0.55 U
Sodium	MG/KG	270	860	1150	1620	833	1140	991 J	672 J	175
Thallium	MG/KG	0.57 U	0.59 U	0.58 J	0.59 U	0.54 J	0.56 U	0.2 U	0.2 U	0.73 J
Vanadium	MG/KG	22.1	20.3	19.1	18.7	17.1	22.7	21.5 J	18.6 J	18.6
Zinc	MG/KG	105 J	79.3 J	80.4 J	69.9 J	107 J	89.4 J	113 J	82.3 J	64.6 J

Notes

(1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)

(2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected, the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-02-002-2	WS-59-02-002-3	WS-59-02-003-1	WS-59-02-003-2	WS-59-02-003-3	WS-59-02-003-4	WS-59-02-003-5	WS-59-02-004-1	WS-59-03-001-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-02-002-2	WS-59-02-002-3	WS-59-02-003-1	WS-59-02-003-2	WS-59-02-003-3	WS-59-02-003-4	WS-59-02-003-5	WS-59-02-004-1	WS-59-03-001-1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics										
1,1,1-Trichloroethane	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
1,1,2,2-Tetrachloroethane	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
1,1,2-Trichloroethane	UG/KG									
1,1-Dichloroethane	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
1,1-Dichloroethene	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
1,2,3-Trichloropropane	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
1,2,4-Trichlorobenzene	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
1,2-Dibromo-3-chloropropane	UG/KG									
1,2-Dibromoethane	UG/KG									
1,2-Dichlorobenzene	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
1,2-Dichloroethane	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
1,2-Dichloroethene (total)	UG/KG									
1,2-Dichloropropane	UG/KG									
1,3-Dichlorobenzene	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
1,3-Dichloropropane	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
1,4-Dichlorobenzene	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
Acetone	UG/KG	23 U	22 U	23 U	23 U	23 U	23 U	22 U	23 U	22 U
Benzene	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
Bromodichloromethane	UG/KG									
Bromoform	UG/KG									
Carbon disulfide	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
Carbon tetrachloride	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
Chlorobenzene	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
Chlorodibromomethane	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
Chloroethane	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U
Chloroform	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
Cis-1,2-Dichloroethene	UG/KG									
Cis-1,3-Dichloropropene	UG/KG									
Cyclohexane	UG/KG									
Dichlorodifluoromethane	UG/KG									
Ethyl benzene	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-02-002-2	WS-59-02-002-3	WS-59-02-003-1	WS-59-02-003-2	WS-59-02-003-3	WS-59-02-003-4	WS-59-02-003-5	WS-59-02-004-1	WS-59-03-001-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-02-002-2	WS-59-02-002-3	WS-59-02-003-1	WS-59-02-003-2	WS-59-02-003-3	WS-59-02-003-4	WS-59-02-003-5	WS-59-02-004-1	WS-59-03-001-1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isopropylbenzene	UG/KG									
Meta/Para Xylene	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
Methyl Acetate	UG/KG									
Methyl Tertbutyl Ether	UG/KG									
Methyl bromide	UG/KG									
Methyl butyl ketone	UG/KG									
Methyl chloride	UG/KG									
Methyl cyclohexane	UG/KG									
Methyl ethyl ketone	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U
Methyl isobutyl ketone	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U
Methylene chloride	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
Ortho Xylene	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
Styrene	UG/KG									
Tetrachloroethene	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
Toluene	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
Total BTEX	MG/KG									
Total Xylenes	UG/KG									
Trans-1,2-Dichloroethene	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
Trans-1,3-Dichloropropene	UG/KG									
Trichloroethene	UG/KG	5.7 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U	5.8 U	5.6 U
Trichlorofluoromethane	UG/KG									
Vinyl chloride	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U
Semivolatile Organics										
1,1'-Biphenyl	UG/KG									
1,2,4-Trichlorobenzene	UG/KG									
1,2-Dichlorobenzene	UG/KG									
1,3-Dichlorobenzene	UG/KG									
1,4-Dichlorobenzene	UG/KG									
2,2'-oxybis(1-Chloropropane)	UG/KG									
2,4,5-Trichlorophenol	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 U
2,4,6-Trichlorophenol	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 U
2,4-Dichlorophenol	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 U
2,4-Dimethylphenol	UG/KG									
2,4-Dinitrophenol	UG/KG	1900 U	1900 U	1900 U	1900 U	2000 U	1900 U	1900 U	2000 U	1900 U
2,4-Dinitrotoluene	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 U
2,6-Dinitrotoluene	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 U
2-Chloronaphthalene	UG/KG									
2-Chlorophenol	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 U
2-Methylnaphthalene	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 U
2-Methylphenol	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 U
2-Nitroaniline	UG/KG	1900 U	1900 U	1900 U	1900 U	2000 U	1900 U	1900 U	2000 U	1900 U
2-Nitrophenol	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	WS-59-02-002-2	WS-59-02-002-3	WS-59-02-003-1	WS-59-02-003-2	WS-59-02-003-3	WS-59-02-003-4	WS-59-02-003-5	WS-59-02-004-1	WS-59-03-001-1	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample ID	WS-59-02-002-2	WS-59-02-002-3	WS-59-02-003-1	WS-59-02-003-2	WS-59-02-003-3	WS-59-02-003-4	WS-59-02-003-5	WS-59-02-004-1	WS-59-03-001-1	
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	
	I	I	I	I	I	I	I	I	I	
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
3,3'-Dichlorobenzidine	UG/KG	370 U	370 U	380 U	370 U	380 U	380 U	370 U	380 U	370 UJ
3-Nitroaniline	UG/KG	1900 U	1900 U	1900 U	1900 U	2000 U	1900 U	1900 U	2000 U	1900 UJ
4,6-Dinitro-2-methylphenol	UG/KG									
4-Bromophenyl phenyl ether	UG/KG									
4-Chloro-3-methylphenol	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 UJ
4-Chloroaniline	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 UJ
4-Chlorophenyl phenyl ether	UG/KG									
4-Methylphenol	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 UJ
4-Nitroaniline	UG/KG									
4-Nitrophenol	UG/KG	1900 U	1900 U	1900 U	1900 U	2000 U	1900 U	1900 U	2000 U	1900 UJ
Acenaphthene	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 UJ
Acenaphthylene	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 UJ
Acetophenone	UG/KG									
Aniline	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 UJ
Anthracene	UG/KG	370 U	370 U	380 U	48 J	380 U	380 U	370 U	380 U	58 J
Atrazine	UG/KG									
Benzaldehyde	UG/KG									
Benzo(a)anthracene	UG/KG	370 U	370 U	54 J	130 J	380 U	44 J	110 J	380 U	210 J
Benzo(a)pyrene	UG/KG	370 U	370 U	49 J	120 J	380 U	46 J	120 J	380 U	180 J
Benzo(b)fluoranthene	UG/KG	370 U	370 U	45 J	100 J	380 U	42 J	110 J	380 U	160 J
Benzo(g)hperylene	UG/KG	370 U	370 U	380 U	68 J	380 U	380 U	80 J	380 U	120 J
Benzo(k)fluoranthene	UG/KG	370 U	370 U	46 J	110 J	380 U	42 J	110 J	380 U	160 J
Benzoic Acid	UG/KG	1900 U	1900 UJ	1900 UJ	1900 UJ	2000 UJ	1900 UJ	1900 UJ	2000 UJ	1900 UJ
Bis(2-Chloroethoxy)methane	UG/KG									
Bis(2-Chloroethyl)ether	UG/KG									
Bis(2-Chloroisopropyl)ether	UG/KG									
Bis(2-Ethylhexyl)phthalate	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 UJ
Bisylbenzylphthalate	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 UJ
Caprolactam	UG/KG									
Carbazole	UG/KG									
Chrysene	UG/KG	370 U	370 U	71 J	130 J	380 U	51 J	130 J	380 U	240 J
Di-n-butylphthalate	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 UJ
Di-n-octylphthalate	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 UJ
Dibenz(a,h)anthracene	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 UJ
Dibenzofuran	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 UJ
Diethyl phthalate	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 UJ
Dimethylphthalate	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 UJ
Fluoranthene	UG/KG	370 U	370 U	120 J	300 J	380 U	85 J	220 J	71 J	380 J
Fluorene	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 UJ
Hexachlorobenzene	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 UJ
Hexachlorobutadiene	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 UJ
Hexachlorocyclopentadiene	UG/KG									
Hexachloroethane	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 UJ
Indeno(1,2,3-cd)pyrene	UG/KG	370 U	370 U	380 U	66 J	380 U	380 U	74 J	380 U	120 J

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-02-002-2	WS-59-02-002-3	WS-59-02-003-1	WS-59-02-003-2	WS-59-02-003-3	WS-59-02-003-4	WS-59-02-003-5	WS-59-02-004-1	WS-59-03-001-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-02-002-2	WS-59-02-002-3	WS-59-02-003-1	WS-59-02-003-2	WS-59-02-003-3	WS-59-02-003-4	WS-59-02-003-5	WS-59-02-004-1	WS-59-03-001-1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isophorone	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	380 U	370 U	380 U
N-Nitrosodiphenylamine	UG/KG									
N-Nitrosodipropylamine	UG/KG									
Naphthalene	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 U
Nitrobenzene	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 U
Pentachlorophenol	UG/KG	1900 U	1900 U	1900 U	1900 U	2000 U	1900 U	1900 U	2000 U	1900 U
Phenanthrene	UG/KG	370 U	370 U	110 J	200 J	380 U	45 J	94 J	62 J	190 U
Phenol	UG/KG	370 U	370 U	380 U	380 U	380 U	380 U	370 U	380 U	370 U
Pyrene	UG/KG	370 U	370 U	100 J	220 J	380 U	73 J	180 J	58 J	340 J
Pyridine	UG/KG	1900 U	1900 U	1900 U	1900 U	2000 U	1900 U	1900 U	2000 U	1900 U
Total Unknown PAHs as SV	MG/KG									
Pesticides/PCBs										
4,4'-DDD	UG/KG	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
4,4'-DDE	UG/KG	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
4,4'-DDT	UG/KG	19 U	19 U	19 U	19 U	19 U	19 U	84	19 U	19 U
Aldrin	UG/KG	9.6 U	9.5 U	9.7 U	9.7 U	9.8 U	9.7 U	9.5 U	9.9 U	9.6 U
Alpha-BHC	UG/KG	9.6 U	9.5 U	9.7 U	9.7 U	9.8 U	9.7 U	9.5 U	9.9 U	9.6 U
Alpha-Chlordane	UG/KG	9.6 U	9.5 U	9.7 U	9.7 U	9.8 U	9.7 U	9.5 U	9.9 U	9.6 U
Beta-BHC	UG/KG	9.6 U	9.5 U	9.7 U	9.7 U	9.8 U	9.7 U	9.5 U	9.9 U	9.6 U
Delta-BHC	UG/KG	9.6 U	9.5 U	9.7 U	9.7 U	9.8 U	9.7 U	9.5 U	9.9 U	9.6 U
Dieldrin	UG/KG	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
Endosulfan I	UG/KG	9.6 U	9.5 U	9.7 U	9.7 U	9.8 U	9.7 U	9.5 U	9.9 U	9.6 U
Endosulfan II	UG/KG	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
Endosulfan sulfate	UG/KG	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
Endrin	UG/KG	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
Endrin aldehyde	UG/KG	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
Endrin ketone	UG/KG	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
Gamma-BHC ̳-lindane	UG/KG	9.6 U	9.5 U	9.7 U	9.7 U	9.8 U	9.7 U	9.5 U	9.9 U	9.6 U
Gamma-Chlordane	UG/KG	9.6 U	9.5 U	9.7 U	9.7 U	9.8 U	9.7 U	9.5 U	9.9 U	9.6 U
Heptachlor	UG/KG	9.6 U	9.5 U	9.7 U	9.7 U	9.8 U	9.7 U	9.5 U	9.9 U	9.6 U
Heptachlor epoxide	UG/KG	9.6 U	9.5 U	9.7 U	9.7 U	9.8 U	9.7 U	9.5 U	9.9 U	9.6 U
Methoxychlor	UG/KG	96 U	95 U	97 U	97 U	98 U	97 U	95 U	99 U	96 U
Toxaphene	UG/KG	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
Aroclor-1016	UG/KG	37 U	37 U	38 U	38 U	38 U	38 U	37 U	38 U	37 U
Aroclor-1221	UG/KG	37 U	37 U	38 U	38 U	38 U	38 U	37 U	38 U	37 U
Aroclor-1232	UG/KG	37 U	37 U	38 U	38 U	38 U	38 U	37 U	38 U	37 U
Aroclor-1242	UG/KG	37 U	37 U	38 U	38 U	38 U	38 U	37 U	38 U	37 U
Aroclor-1248	UG/KG	37 U	37 U	38 U	38 U	38 U	38 U	37 U	38 U	37 U
Aroclor-1254	UG/KG	37 U	37 U	38 U	38 U	38 U	38 U	37 U	38 U	37 U
Aroclor-1260	UG/KG	37 U	37 U	38 U	38 U	38 U	38 U	37 U	38 U	37 U
Metals										

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-02-002-2	WS-59-02-002-3	WS-59-02-003-1	WS-59-02-003-2	WS-59-02-003-3	WS-59-02-003-4	WS-59-02-003-5	WS-59-02-004-1	WS-59-03-001-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-02-002-2	WS-59-02-002-3	WS-59-02-003-1	WS-59-02-003-2	WS-59-02-003-3	WS-59-02-003-4	WS-59-02-003-5	WS-59-02-004-1	WS-59-03-001-1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	10300	8950	8330	11700	10500	10800	11500	7740	11600
Antimony	MG/KG	3.4 UJ	3.3 UJ	3.3 UJ	3.3 UJ	3.4 UJ	3.3 UJ	3.2 UJ	3.3 UJ	3.3 UJ
Arsenic	MG/KG	4.6	4.6	5.3	5.5	4.9	4.6	5.1	6.9	5.2
Barium	MG/KG	84.2	76.2	63.3	98.6	99.5	79.4	106	54	98.7
Beryllium	MG/KG	0.2	0.18	0.15	0.27	0.26	0.21	0.22	0.12	0.5
Cadmium	MG/KG	0.28 U	0.27 U	0.27 U	0.28 U	0.28 U	0.27 U	0.26 U	0.28 U	0.28 U
Calcium	MG/KG	43500	43200	56800	30200	33600	19000	21500	71500	33200
Chromium	MG/KG	17.1	15.2	14.5	19	17.3	18	17.7	14.1	17.8
Cobalt	MG/KG	9.2	8.6	7.9	9.8	11.1	8.9	10.9	6.9	7.5
Copper	MG/KG	25.7	22.3	23.2	29	26	23.4	23.8	22.6	20.9
Cyanide	MG/KG									
Iron	MG/KG	22700 J	19400 J	19400 J	23400 J	21900 J	20700 J	21600 J	17300 J	22200 J
Lead	MG/KG	20.1 J	15 J	21.1 J	29.3 J	24.7 J	20.2 J	26.6 J	11.7 J	21 J
Magnesium	MG/KG	8390	10400	8650	6930	9220	6340	6140	15700	7880
Manganese	MG/KG	394	403	317	413	661	320	749	349	315 J
Mercury	MG/KG	0.06	0.05	0.09	0.1	0.07	0.07	0.07	0.03 J	0.07
Nickel	MG/KG	27.3	25.7	25.1	32.1	28.9	28.1	26.7	22.4	25.2
Potassium	MG/KG	1130	966	995	1240	1040	1010	1190	932	1070
Selenium	MG/KG	0.56 U	0.54 U	0.55 U	0.55 U	0.56 U	0.55 U	0.53 U	0.55 U	0.56 U
Silver	MG/KG	0.56 U	0.54 U	0.55 U	0.55 U	0.56 U	0.55 U	0.53 U	0.55 U	0.56 U
Sodium	MG/KG	152	123	229	124	122	199	66.3	545	117
Thallium	MG/KG	0.64 J	0.54 U	0.55 U	0.74 J	0.74 J	0.55 U	0.84 J	0.55 U	0.56 U
Vanadium	MG/KG	18.4	16.3	16.6	20.7	18.8	18.1	20.7	14.4	19.8
Zinc	MG/KG	73.8 J	67.7 J	94.3 J	88.5 J	74.2 J	81.6 J	74.5 J	65.7 J	79.4 J

Notes:

(1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)

(2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected; the associated reporting limit is approximate

R = the data was rejected in the data validating process

NI = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-03-001-2	WS-59-03-001-3	WS-59-03-002-1	WS-59-03-002-2	WS-59-03-002-3	WS-59-03-002-4	WS-59-04-010-1	WS-59-04-010-10	WS-59-04-010-11
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-03-001-2	WS-59-03-001-3	WS-59-03-002-1	WS-59-03-002-2	WS-59-03-002-3	WS-59-03-002-4	WS-59-04-010-1	WS-59-04-010-10	WS-59-04-010-11
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatle Organics										
1,1,1-Trichloroethane	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	6.0 U	5.7 U
1,1,2,2-Tetrachloroethane	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	6.0 U	5.7 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	6.0 U	5.7 U
1,1,2-Trichloroethane	UG/KG							5.7 U	6.0 U	5.7 U
1,1-Dichloroethane	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	6.0 U	5.7 U
1,1-Dichloroethene	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	6.0 U	5.7 U
1,2,3-Trichloropropane	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U		
1,2,4-Trichlorobenzene	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	6.0 U	5.7 U
1,2-Dibromo-3-chloropropane	UG/KG							5.7 U	6.0 U	5.7 U
1,2-Dibromoethane	UG/KG							5.7 U	6.0 U	5.7 U
1,2-Dichlorobenzene	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	6.0 U	5.7 U
1,2-Dichloroethane	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	6.0 U	5.7 U
1,2-Dichloroethene (total)	UG/KG									
1,2-Dichloropropane	UG/KG							5.7 U	6.0 U	5.7 U
1,3-Dichlorobenzene	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	6.0 U	5.7 U
1,3-Dichloropropane	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	6.0 U	5.7 U
1,4-Dichlorobenzene	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	6.0 U	5.7 U
Acetone	UG/KG	23 U	23 U	23 U	23 U	23 U	23 U	23 U	23 U	23 U
Benzene	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	6.0 U	5.7 U
Bromodichloromethane	UG/KG							5.7 U	6.0 U	5.7 U
Bromoform	UG/KG							5.7 U	6.0 U	5.7 U
Carbon disulfide	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	6.0 U	5.7 U
Carbon tetrachloride	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	6.0 U	5.7 U
Chlorobenzene	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	6.0 U	5.7 U
Chlorodibromomethane	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	6.0 U	5.7 U
Chloroethane	UG/KG	11 U	12 U	11 U	11 U	11 U	11 U	11 U	6.0 U	5.7 U
Chloroform	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	6.0 U	5.7 U
Cis-1,2-Dichloroethene	UG/KG							5.7 U	6.0 U	5.7 U
Cis-1,3-Dichloropropene	UG/KG							5.7 U	6.0 U	5.7 U
Cyclohexane	UG/KG							5.7 U	6.0 U	5.7 U
Dichlorodifluoromethane	UG/KG							5.7 U	6.0 U	5.7 U
Ethyl benzene	UG/KG	2.3 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	6.0 U	5.7 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-03-001-2	WS-59-03-001-3	WS-59-03-002-1	WS-59-03-002-2	WS-59-03-002-3	WS-59-03-002-4	WS-59-04-010-1	WS-59-04-010-10	WS-59-04-010-11
	Maxmix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-03-001-2	WS-59-03-001-3	WS-59-03-002-1	WS-59-03-002-2	WS-59-03-002-3	WS-59-03-002-4	WS-59-04-010-1	WS-59-04-010-10	WS-59-04-010-11
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isopropylbenzene	UG/KG							5 U	6 U	5 U
Meta/Para Xylene	UG/KG	8.4	5.8 UJ	5.7 U	5.7 U	5.7 U	5.7 U			
Methyl Acetate	UG/KG							5 U	6 U	5 U
Methyl Tertbutyl Ether	UG/KG							5 U	6 U	5 U
Methyl bromide	UG/KG							5 U	6 U	5 U
Methyl butyl ketone	UG/KG							5 U	6 U	5 U
Methyl chloride	UG/KG							5 U	6 U	5 U
Methyl cyclohexane	UG/KG							5 U	6 U	5 U
Methyl ethyl ketone	UG/KG	11 U	12 U	11 U	11 U	11 U	11 U	5 U	6 U	5 U
Methyl isobutyl ketone	UG/KG	11 U	12 U	11 U	11 U	11 U	11 U	5 U	6 U	5 U
Methylene chloride	UG/KG	1.7 J	1.5 J	1.7 J	1.4 J	1.5 J	1.4 J	5 U	6 U	5 U
Ortho Xylene	UG/KG	3.1 J	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U			
Styrene	UG/KG							5 U	6 U	5 U
Tetrachloroethene	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5 U	6 U	5 U
Toluene	UG/KG	4 J	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5 U	6 U	5 U
Total BTEX	MG/KG									
Total Xylenes	UG/KG							5 UJ	6 UJ	5 U
Trans-1,2-Dichloroethene	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5 U	6 U	5 U
Trans-1,3-Dichloropropene	UG/KG							5 U	6 U	5 U
Trichloroethene	UG/KG	5.7 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5 U	6 U	5 U
Trichlorofluoromethane	UG/KG							5 U	6 U	5 U
Vinyl chloride	UG/KG	11 U	12 U	11 U	11 U	11 U	11 U	5 U	6 U	5 U
Semivolatile Organics										
1,1'-Biphenyl	UG/KG							350 U	370 U	370 U
1,2,4-Trichlorobenzene	UG/KG									
1,2-Dichlorobenzene	UG/KG									
1,3-Dichlorobenzene	UG/KG									
1,4-Dichlorobenzene	UG/KG									
2,2'-oxybis(1-Chloropropane)	UG/KG							350 U	370 U	370 U
2,4,5-Trichlorophenol	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	890 U	940 U	920 U
2,4,6-Trichlorophenol	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U	370 U
2,4-Dichlorophenol	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U	370 U
2,4-Dimethylphenol	UG/KG							350 U	370 U	370 U
2,4-Dinitrophenol	UG/KG	1900 U	2000 U	1900 U	1900 U	1900 U	1900 U	890 U	940 U	920 U
2,4-Dinitrotoluene	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U	370 U
2,6-Dinitrotoluene	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U	370 U
2-Chloronaphthalene	UG/KG							350 U	370 U	370 U
2-Chlorophenol	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U	370 U
2-Methylnaphthalene	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U	370 U
2-Methylphenol	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U	370 U
2-Nitroaniline	UG/KG	1900 U	2000 U	1900 U	1900 U	1900 U	1900 U	890 U	940 U	920 U
2-Nitrophenol	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U	370 U

Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-03-001-2	WS-59-03-001-3	WS-59-03-002-1	WS-59-03-002-2	WS-59-03-002-3	WS-59-03-002-4	WS-59-04-010-1	WS-59-04-010-10	WS-59-04-010-11
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-03-001-2	WS-59-03-001-3	WS-59-03-002-1	WS-59-03-002-2	WS-59-03-002-3	WS-59-03-002-4	WS-59-04-010-1	WS-59-04-010-10	WS-59-04-010-11
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	J	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
3,3'-Dichlorobenzidine	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U	370 U
3-Nitroaniline	UG/KG	1900 U	2000 U	1900 U	1900 U	1900 U	1900 U	890 U	940 U	920 U
4,6-Dinitro-2-methylphenol	UG/KG							890 U	940 U	920 U
4-Bromophenyl phenyl ether	UG/KG							350 U	370 U	370 U
4-Chloro-3-methylphenol	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U	370 U
4-Chloroaniline	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U	370 U
4-Chlorophenyl phenyl ether	UG/KG							350 U	370 U	370 U
4-Methylphenol	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U	370 U
4-Nitroaniline	UG/KG							890 U	940 U	920 U
4-Nitrophenol	UG/KG	1900 U	2000 U	1900 U	1900 U	1900 U	1900 U	890 U	940 U	920 U
Acenaphthene	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U	370 U
Acenaphthylene	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U	370 U
Acetophenone	UG/KG							350 U	370 U	370 U
Aniline	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	380 U	370 U	370 U
Anthracene	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U	370 U
Atrazine	UG/KG							350 U	370 U	370 U
Benzaldehyde	UG/KG							350 U	370 U	370 U
Benzo(a)anthracene	UG/KG	380 U	59 J	380 U	380 U	380 U	380 U	70 J	130 J	370 U
Benzo(a)pyrene	UG/KG	380 U	61 J	380 U	380 U	380 U	380 U	41 J	140 J	370 U
Benzo(b)fluoranthene	UG/KG	380 U	61 J	380 U	380 U	380 U	380 U	41 J	97 J	200 J
Benzo(ghi)perylene	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	380 U	43 J	96 J
Benzo(k)fluoranthene	UG/KG	380 U	50 J	380 U	380 U	380 U	380 U	380 U	43 J	72 J
Benzoic Acid	UG/KG	1900 U	2000 U	1900 U	1900 U	1900 U	1900 U	1900 U		
Bis(2-Chloroethoxy)methane	UG/KG							350 U	370 U	370 U
Bis(2-Chloroethyl)ether	UG/KG							350 U	370 U	370 U
Bis(2-Chloroisopropyl)ether	UG/KG									
Bis(2-Ethylhexyl)phthalate	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	380 U	350 U	52 J
Butylbenzylphthalate	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U
Caprolactam	UG/KG							350 U	370 U	370 U
Carbazole	UG/KG							350 U	370 U	370 U
Chrysene	UG/KG	380 U	69 J	380 U	380 U	380 U	380 U	46 J	76 J	150 J
Di-n-butylphthalate	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U
Di-n-octylphthalate	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U
Dihenz(a,h)anthracene	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U
Dibenzofuran	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U
Diethyl phthalate	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U
Dimethyl phthalate	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U
Fluoranthene	UG/KG	380 U	110 J	380 U	380 U	380 U	380 U	70 J	160 J	250 J
Fluorene	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U
Hexachlorobenzene	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U
Hexachlorobutadiene	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U
Hexachlorocyclopentadiene	UG/KG							350 U	370 U	370 U
Hexachloroethane	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U
Indeno(1,2,3-cd)pyrene	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	380 U	45 J	93 J

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-03-001-2	WS-59-03-001-3	WS-59-03-002-1	WS-59-03-002-2	WS-59-03-002-3	WS-59-03-002-4	WS-59-04-010-1	WS-59-04-010-10	WS-59-04-010-11
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-03-001-2	WS-59-03-001-3	WS-59-03-002-1	WS-59-03-002-2	WS-59-03-002-3	WS-59-03-002-4	WS-59-04-010-1	WS-59-04-010-10	WS-59-04-010-11
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth in Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isophorone	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U	370 U
N-Nitrosodiphenylamine	UG/KG							350 U	370 U	370 U
N-Nitrosodipropylamine	UG/KG							350 U	370 U	370 U
Naphthalene	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U	370 U
Nitrobenzene	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U	370 U
Pentachlorophenol	UG/KG	1900 U	2000 U	1900 U	1900 U	1900 U	1900 U	890 U	940 U	920 U
Phenanthrene	UG/KG	380 U	73 J	380 U	380 U	380 U	380 U	82 J	130 J	370 U
Phenol	UG/KG	380 U	380 U	380 U	380 U	380 U	380 U	350 U	370 U	370 U
Pyrene	UG/KG	380 U	100 J	380 U	380 U	380 U	380 U	60 J	130 J	42 J
Pyridine	UG/KG	1900 U	2000 U	1900 U	1900 U	1900 U	1900 U			
Total Unknown PAHs as SV	MG/KG									
Pesticides/PCBs										
4,4'-DDD	UG/KG	19 U	19 U	19 U	19 U	19 U	19 U	13	26 J	3.6 U
4,4'-DDE	UG/KG	19 U	19 U	19 U	19 U	19 U	19 U	12 J	52 J	3.6 U
4,4'-DDT	UG/KG	19 U	19 U	19 U	19 U	19 U	19 U	12	70 J	3.6 U
Aldrin	UG/KG	9.7 U	9.9 U	9.7 U	9.7 U	9.7 U	9.7 U	1.8 U	3.9 U	1.8 U
Alpha-BHC	UG/KG	9.7 U	9.9 U	9.7 U	9.7 U	9.7 U	9.7 U	1.8 U	3.9 U	1.8 U
Alpha-Chlordane	UG/KG	9.7 U	9.9 U	9.7 U	9.7 U	9.7 U	9.7 U	20 J	34 J	1.8 U
Beta-BHC	UG/KG	9.7 U	9.9 U	9.7 U	9.7 U	9.7 U	9.7 U	1.8 U	3.9 U	1.8 U
Delta-BHC	UG/KG	9.7 U	9.9 U	9.7 U	9.7 U	9.7 U	9.7 U	1.8 U	3.9 U	1.8 U
Dieldrin	UG/KG	19 U	19 U	19 U	19 U	19 U	19 U	3.6 U	7.5 U	3.6 U
Endosulfan I	UG/KG	9.7 U	9.9 U	9.7 U	9.7 U	9.7 U	9.7 U	1.8 U	3.9 U	1.8 U
Endosulfan II	UG/KG	19 U	19 U	19 U	19 U	19 U	19 U	3.6 U	7.5 U	3.6 U
Endosulfan sulfate	UG/KG	19 U	19 U	19 U	19 U	19 U	19 U	3.6 U	7.5 U	3.6 U
Endrin	UG/KG	19 U	19 U	19 U	19 U	19 U	19 U	3.6 U	7.5 U	3.6 U
Endrin aldehyde	UG/KG	19 U	19 U	19 U	19 U	19 U	19 U	3.6 U	7.5 U	3.6 U
Endrin ketone	UG/KG	19 U	19 U	19 U	19 U	19 U	19 U	3.6 U	7.5 U	3.6 U
Gamma-BHC/Lindane	UG/KG	9.7 U	9.9 U	9.7 U	9.7 U	9.7 U	9.7 U	1.8 U	3.9 U	1.8 U
Gamma-Chlordane	UG/KG	9.7 U	9.9 U	9.7 U	9.7 U	9.7 U	9.7 U	18	24 J	1.8 U
Heptachlor	UG/KG	9.7 U	9.9 U	9.7 U	9.7 U	9.7 U	9.7 U	1.8 U	3.9 U	1.8 U
Heptachlor epoxide	UG/KG	9.7 U	9.9 U	9.7 U	9.7 U	9.7 U	9.7 U	1.8 U	3.9 U	1.8 U
Methoxychlor	UG/KG	97 U	99 U	97 U	97 U	97 U	97 U	18 U	39 U	18 U
Toxaphene	UG/KG	190 U	190 U	190 U	190 U	190 U	190 U	180 U	390 U	180 U
Aroclor-1016	UG/KG	38 U	38 U	38 U	38 U	38 U	38 U	36 U	38 U	36 U
Aroclor-1221	UG/KG	38 U	38 U	38 U	38 U	38 U	38 U	36 U	38 U	36 U
Aroclor-1232	UG/KG	38 U	38 U	38 U	38 U	38 U	38 U	36 U	38 U	36 U
Aroclor-1242	UG/KG	38 U	38 U	38 U	38 U	38 U	38 U	36 U	38 U	36 U
Aroclor-1248	UG/KG	38 U	38 U	38 U	38 U	38 U	38 U	36 U	38 U	36 U
Aroclor-1254	UG/KG	38 U	38 U	38 U	38 U	38 U	38 U	36 U	38 U	36 U
Aroclor-1260	UG/KG	38 U	38 U	38 U	38 U	38 U	38 U	36 U	38 U	36 U
Metals										

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-03-001-2	WS-59-03-001-3	WS-59-03-002-1	WS-59-03-002-2	WS-59-03-002-3	WS-59-03-002-4	WS-59-04-010-1	WS-59-04-010-10	WS-59-04-010-11
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-03-001-2	WS-59-03-001-3	WS-59-03-002-1	WS-59-03-002-2	WS-59-03-002-3	WS-59-03-002-4	WS-59-04-010-1	WS-59-04-010-10	WS-59-04-010-11
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	10400	11000	10700	11700	10700	11200	13100 J	12200 J	7740 J
Antimony	MG/KG	3.3 UJ	3.4 UJ	3.4 UJ	3.4 UJ	3.3 UJ	3.4 UJ	1.9 J	1.3 J	1.2 J
Arsenic	MG/KG	4.6	4.9	5.1	5.3	4.5	4.6	5.5 J	6.1 J	4.8 J
Barium	MG/KG	90.4	94.7	84	107	93.3	101	83.1 J	99.7 J	57.9 J
Beryllium	MG/KG	0.33	0.29	0.27	0.34	0.39	0.43	0.61	0.6	0.39
Cadmium	MG/KG	0.28 U	0.28 U	0.3 J	0.28 U	0.28 U	0.31 J	0.29 J	0.55	0.24 J
Calcium	MG/KG	28800	50900	42200	30700	55200	63400	9880	31600 J	67000
Chromium	MG/KG	16.6	17.6	18	18.1	16.6	17.5	20.7 J	18.5 J	11.5 J
Cobalt	MG/KG	7.8	7.9	9.5	8.4	7.7	8.2	7.7 J	8.1 J	8.7 J
Copper	MG/KG	28	21.7	21.8	24.7	22.7	23	25.3 J	33.6 J	20.1 J
Cyanide	MG/KG									
Iron	MG/KG	20200	21800	23200	22300	20500	21100	22100	20700	16500
Lead	MG/KG	20.5 J	19.5 J	20 J	24.4 J	17.7 J	24.4 J	16.5 J	39 J	9 J
Magnesium	MG/KG	6570	9690	10200	7720	12200	12100	5240 J	7630 J	12000 J
Manganese	MG/KG	360	361	375	327	366	464	307 J	459 J	455 J
Mercury	MG/KG	0.06	0.05	0.06	0.09	0.05	0.06	0.23 J	0.29 J	0.06
Nickel	MG/KG	25.7	25.9	28.9	26.2	25.3	26.8	29.7 J	24.8 J	21 J
Potassium	MG/KG	1060	1100	1030	1020	964	1100	1460 J	1570 J	1070 J
Selenium	MG/KG	0.55 U	0.57 U	0.57 U	0.56 U	0.56 U	0.56 U	0.44 U	0.41 U	0.37 U
Silver	MG/KG	0.55 U	0.57 U	0.57 U	0.56 U	0.56 U	0.56 U	2.3	2.8	0.29 J
Sodium	MG/KG	94	113	89.8	84.9	101	323	118 J	104 J	145 J
Thallium	MG/KG	0.55 U	0.6 J	0.57 U	0.56 U	0.56 U	0.56 U	0.22 U	0.21 U	0.18 U
Vanadium	MG/KG	17.3	18.8	18.8	19.6	17.8	19.5	20.4 J	21.3 J	12.8 J
Zinc	MG/KG	83.7 J	79.1 J	97.5 J	85.6 J	76.3 J	70.3 J	83.5 J	92.7 J	47.8 J

Note(s)

(1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)

(2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected, the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-04-010-3	WS-59-04-010-4	WS-59-04-010-5	WS-59-04-010-6	WS-59-04-010-7	WS-59-04-010-9	WS-59-OTHERC-001-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-04-010-3	WS-59-04-010-4	WS-59-04-010-5	WS-59-04-010-6	WS-59-04-010-7	WS-59-04-010-9	WS-59-OTHERC-001-1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics								
1,1,1-Trichloroethane	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U	5.7 U
1,1,2,2-Tetrachloroethane	UG/KG	6 R	6 UJ	6 UJ	5 R	5 R	6 U	5.7 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	6 UJ	6 UJ	6 U	5 U	5 U	6 UJ	5.7 U
1,1,2-Trichloroethane	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U	
1,1-Dichloroethane	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U	5.7 U
1,1-Dichloroethene	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U	5.7 U
1,2,3-Trichloropropane	UG/KG							5.7 U
1,2,4-Trichlorobenzene	UG/KG	6 R	6 UJ	6 UJ	5 R	5 R	6 U	5.7 U
1,2-Dibromo-3-chloropropane	UG/KG	6 R	6 UJ	6 UJ	5 R	5 R	6 U	
1,2-Dibromoethane	UG/KG	6 UJ	6 U	6 UJ	5 UJ	5 UJ	6 U	
1,2-Dichlorobenzene	UG/KG	6 R	6 UJ	6 UJ	5 R	5 R	6 U	5.7 U
1,3-Dichloroethane	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U	5.7 U
1,2-Dichloroethene (total)	UG/KG							
1,2-Dichloropropane	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U	
1,3-Dichlorobenzene	UG/KG	6 R	6 UJ	6 UJ	5 R	5 R	6 U	5.7 U
1,3-Dichloropropane	UG/KG							5.7 U
1,4-Dichlorobenzene	UG/KG	6 R	6 UJ	6 UJ	5 R	5 R	6 U	5.7 U
Acetone	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U	23 U
Benzene	UG/KG	6 UJ	6 U	1 J	5 U	1 J	6 U	5.7 U
Bromodichloromethane	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U	
Bromoform	UG/KG	6 UJ	6 U	6 UJ	5 UJ	5 UJ	6 U	
Carbon disulfide	UG/KG	6 UJ	6 U	1 J	5 U	3 J	6 U	5.7 U
Carbon tetrachloride	UG/KG	6 UJ	6 U	6 U	5 UJ	5 U	6 U	5.7 U
Chlorobenzene	UG/KG	6 UJ	6 U	6 UJ	5 UJ	5 UJ	6 U	5.7 U
Chlorodibromomethane	UG/KG	6 UJ	6 U	6 UJ	5 UJ	5 UJ	6 U	5.7 U
Chloroethane	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U	11 U
Chloroform	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U	5.7 U
Cis-1,2-Dichloroethene	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U	
Cis-1,3-Dichloropropene	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U	
Cyclohexane	UG/KG	6 UJ	6 U	3 J	5 U	3 J	6 U	
Dichlorodifluoromethane	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U	
Ethyl benzene	UG/KG	6 UJ	6 U	6 UJ	5 UJ	5 UJ	6 U	5.7 U

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Parameter	Units	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	
		Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Isopropylbenzene	UG/KG	6 UJ	6 U	6 UJ	5 UJ	5 UJ	6 U		
Meta/Para Xylene	UG/KG							5.7 U	
Methyl Acetate	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U		
Methyl Tertbutyl Ether	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U		
Methyl bromide	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U		
Methyl butyl ketone	UG/KG	6 UJ	6 U	6 UJ	5 UJ	5 UJ	6 U		
Methyl chloride	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U		
Methyl cyclohexane	UG/KG	6 UJ	6 U	5 J	5 U	4 J	6 U		
Methyl ethyl ketone	UG/KG	6 UJ	6 U	6 U	5 UJ	5 U	6 U	11 U	
Methyl isobutyl ketone	UG/KG	6 UJ	6 U	6 U	5 UJ	5 U	6 U	11 U	
Methylene chloride	UG/KG	6 UJ	6 U	6 U	4 J	5 U	6 U	5.7 U	
Ortho Xylene	UG/KG							5.7 U	
Styrene	UG/KG	6 UJ	6 U	6 UJ	5 UJ	5 UJ	6 U		
Tetrachloroethene	UG/KG	6 UJ	6 U	6 UJ	5 UJ	5 UJ	6 U	5.7 U	
Toluene	UG/KG	6 UJ	6 U	8	5 U	4 J	6 U	5.7 U	
Total BTEX	MG/KG								
Total Xylenes	UG/KG	6 R	6 UJ	2 J	5 R	1 J	6 U		
Trans-1,2-Dichloroethene	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U	5.7 U	
Trans-1,3-Dichloropropene	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U		
Trichloroethene	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U	5.7 U	
Trichlorofluoromethane	UG/KG	6 UJ	6 U	6 U	6 J	5 U	6 U		
Vinyl chloride	UG/KG	6 UJ	6 U	6 U	5 U	5 U	6 U	11 U	
Semivolatile Organics									
1,1'-Biphenyl	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U		
1,2,4-Trichlorobenzene	UG/KG								
1,2-Dichlorobenzene	UG/KG								
1,3-Dichlorobenzene	UG/KG								
1,4-Dichlorobenzene	UG/KG								
2,2'-oxybis(1-Chloropropane)	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U		
2,4,5-Trichlorophenol	UG/KG	950 U	920 U	1900 U	920 U	940 U	920 U	380 U	
2,4,6-Trichlorophenol	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U	
2,4-Dichlorophenol	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U	
2,4-Dimethylphenol	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U		
2,4-Dinitrophenol	UG/KG	950 U	920 U	1900 U	920 U	940 U	920 U	1900 U	
2,4-Dinitrotoluene	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U	
2,6-Dinitrotoluene	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U	
2-Chloronaphthalene	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U		
2-Chlorophenol	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U	
2-Methylnaphthalene	UG/KG	380 U	110 J	150 J	65 J	370 U	370 U	380 U	
2-Methylphenol	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U	
2-Nitroaniline	UG/KG	950 U	920 U	1900 U	920 U	940 U	920 U	1900 U	
2-Nitrophenol	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U	

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-04-010-3	WS-59-04-010-4	WS-59-04-010-5	WS-59-04-010-6	WS-59-04-010-7	WS-59-04-010-9	WS-59-OTHERC-001-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-04-010-3	WS-59-04-010-4	WS-59-04-010-5	WS-59-04-010-6	WS-59-04-010-7	WS-59-04-010-9	WS-59-OTHERC-001-1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
3,3'-Dichlorobenzidine	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U
3-Nitroaniline	UG/KG	950 U	920 U	1900 U	920 U	940 U	920 U	1900 U
4,6-Dinitro-2-methylphenol	UG/KG	950 U	920 U	1900 U	920 U	940 U	920 U	
4-Bromophenyl phenyl ether	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	
4-Chloro-3-methylphenol	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U
4-Chloroaniline	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U
4-Chlorophenyl phenyl ether	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	
4-Methylphenol	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U
4-Nitroaniline	UG/KG	950 U	920 U	1900 U	920 U	940 U	920 U	
4-Nitrophenol	UG/KG	950 U	920 U	1900 U	920 U	940 U	920 U	1900 U
Acenaphthene	UG/KG	380 U	310 J	610 J	290 J	60 J	65 J	380 U
Acenaphthylene	UG/KG	380 U	91 J	750 U	37 J	370 U	370 U	380 U
Acetophenone	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	
Aniline	UG/KG							380 U
Anthracene	UG/KG	94 J	580	1200	570	130 J	180 J	380 U
Atrazine	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	
Benzaldehyde	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	
Benzo(a)anthracene	UG/KG	77 J	1100	2000	1300	360 J	690	66 J
Benzo(a)pyrene	UG/KG	78 J	990	1800	1200	330 J	660	380 U
Benzo(h)fluoranthene	UG/KG	100 J	1200	2100	1400	400	830	66 J
Benzo(ghi)perylene	UG/KG	42 J	480	850	600	190 J	330 J	380 U
Benzo(k)fluoranthene	UG/KG	40 J	470	920	530	170 J	340 J	76 J
Benzoic Acid	UG/KG							1900 U
Bis(2-Chloroethoxy)methane	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	
Bis(2-Chloroethyl)ether	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	
Bis(2-Chloroisopropyl)ether	UG/KG							
Bis(2-Ethylhexyl)phthalate	UG/KG	42 J	42 NJ	750 U	58 NJ	39 NJ	65 J	380 U
Butylbenzylphthalate	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U
Caprolactam	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	
Carbazole	UG/KG	380 U	320 J	690 J	330 J	78 J	93 J	
Chrysene	UG/KG	82 J	990	1900	1200 NJ	330 J	620	86 J
Di-n-butylphthalate	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U
Di-n-octylphthalate	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U
Dibenz(a,h)anthracene	UG/KG	380 U	140 J	270 J	190 J	56 J	94 J	380 U
Dibenzofuran	UG/KG	380 U	200 J	410 J	170 J	370 U	370 U	380 U
Diethyl phthalate	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U
Dimethylphthalate	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U
Fluoranthene	UG/KG	170 J	2200	4400	2300	670	1200	110 J
Fluorene	UG/KG	380 U	300 J	600 J	280 J	55 J	64 J	380 U
Hexachlorobenzene	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U
Hexachlorobutadiene	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U
Hexachlorocyclopentadiene	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	
Hexachloroethane	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U
Indeno(1,2,3-cd)pyrene	UG/KG	47 J	530	970	690	200 J	380	40 J

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-04-010-3	WS-59-04-010-4	WS-59-04-010-5	WS-59-04-010-6	WS-59-04-010-7	WS-59-04-010-9	WS-59-OTHERC-001-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-04-010-3	WS-59-04-010-4	WS-59-04-010-5	WS-59-04-010-6	WS-59-04-010-7	WS-59-04-010-9	WS-59-OTHERC-001-1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isophorone	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U
N-Nitrosodiphenylamine	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	
N-Nitrosodipropylamine	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	
Naphthalene	UG/KG	380 U	420	430 U	180 J	370 U	370 U	380 U
Nitrobenzene	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U
Pentachlorophenol	UG/KG	950 U	920 U	1900 U	920 U	940 U	920 U	1900 U
Phenanthrene	UG/KG	95 J	2100	4400	1900	450	610	380 U
Phenol	UG/KG	380 U	360 U	750 U	370 U	370 U	370 U	380 U
Pyrene	UG/KG	140 J	1900	3500	2300	630	1200	120 J
Pyridine	UG/KG							1900 U
Total Unknown PAHs as SV	MG/KG							
Pesticides/PCBs								
4,4'-DDD	UG/KG	2.5 J	3.7 U	11	9.8	9.2 J	8.6	19 U
4,4'-DDE	UG/KG	3.1 J	10 J	24 J	16 NJ	8.1 NJ	6.4 NJ	19 U
4,4'-DDT	UG/KG	2.4 J	19	16	19	10	20	19 U
Aldrin	UG/KG	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	9.7 U
Alpha-BHC	UG/KG	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	9.7 U
Alpha-Chlordane	UG/KG	3.4 J	1.9 U	1.9 U	1.8 U	1.9 U	12	9.7 U
Beta-BHC	UG/KG	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	9.7 U
Delta-BHC	UG/KG	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	9.7 U
Dieldrin	UG/KG	3.8 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	19 U
Endosulfan I	UG/KG	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	9.7 U
Endosulfan II	UG/KG	3.8 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	19 U
Endosulfan sulfate	UG/KG	3.8 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	19 U
Endrin	UG/KG	3.8 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	19 U
Endrin aldehyde	UG/KG	3.8 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	19 U
Endrin ketone	UG/KG	3.8 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	19 U
Gamma-BHC/Lindane	UG/KG	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	9.7 U
Gamma-Chlordane	UG/KG	3.6 J	1.9 U	14 J	8	9.8 J	9.1	9.7 U
Heptachlor	UG/KG	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	9.7 U
Heptachlor epoxide	UG/KG	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	9.7 U
Methoxychlor	UG/KG	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	9.7 U
Toxaphene	UG/KG	190 U	190 U	190 U	180 U	190 U	190 U	190 U
Aroclor-1016	UG/KG	38 U	37 U	38 U	36 U	38 U	37 U	38 U
Aroclor-1221	UG/KG	38 U	37 U	38 U	36 U	38 U	37 U	38 U
Aroclor-1232	UG/KG	38 U	37 U	38 U	36 U	38 U	37 U	38 U
Aroclor-1242	UG/KG	38 U	37 U	38 U	36 U	38 U	37 U	38 U
Aroclor-1248	UG/KG	38 U	37 U	38 U	36 U	38 U	37 U	38 U
Aroclor-1254	UG/KG	38 U	37 U	38 U	36 U	38 U	37 U	38 U
Aroclor-1260	UG/KG	38 U	37 U	38 U	36 U	38 U	37 U	38 U
Metals								

**Table D-1
SEAD-59 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-04-010-3	WS-59-04-010-4	WS-59-04-010-5	WS-59-04-010-6	WS-59-04-010-7	WS-59-04-010-9	WS-59-OTHERC-001-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-04-010-3	WS-59-04-010-4	WS-59-04-010-5	WS-59-04-010-6	WS-59-04-010-7	WS-59-04-010-9	WS-59-OTHERC-001-1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Aluminum	MG/KG	10500 J	11400 J	12200	9710	7840	7710 J	13900
Antimony	MG/KG	1.5 J	2.2 J	2 J	1.8 J	1.1 J	1.3 J	3.3 UJ
Arsenic	MG/KG	5.6 J	0.5 J	8.4	4.9	5	3.9 J	5.9
Barium	MG/KG	74.7 J	81.6 J	90.3	84.2	65.3	97.9 J	130
Beryllium	MG/KG	0.5	0.59	0.63	0.47	0.4	0.38	0.53
Cadmium	MG/KG	0.33	0.38	0.54	0.49	0.46	0.38	0.46 J
Calcium	MG/KG	51900	57700	30400	46600	79200	81300	13900
Chromium	MG/KG	15.5 J	16.9 J	20.4 J	25.3 J	13.5 J	13.4 J	20.2
Cobalt	MG/KG	7.7 J	9.9 J	10.1 J	8.1 J	6.8 J	6.7 J	11.7
Copper	MG/KG	23.2 J	25.5 J	35.3	35.6	34.8	31.3 J	25.4
Cyanide	MG/KG							
Iron	MG/KG	19000	23600	24600 J	19700 J	17900 J	17200	25100 J
Lead	MG/KG	12.7 J	22.3 J	31 J	26.2 J	25 J	38.2 J	42.7 J
Magnesium	MG/KG	12800 J	7840 J	7590 J	9500 J	15500 J	19100 J	4280
Manganese	MG/KG	504 J	529 J	519 J	411 J	368 J	362 J	771 J
Mercury	MG/KG	0.14	0.27 J	0.42 J	0.95 J	0.51 J	0.4 J	0.16
Nickel	MG/KG	25 J	27 J	31.6 J	26.2 J	31.3 J	20.6 J	25.5
Potassium	MG/KG	1390 J	1640 J	1380	1140	1090	1030 J	1180
Selenium	MG/KG	0.44 U	0.45 U	0.43 U	0.43 U	0.43 U	0.37 U	0.56 U
Silver	MG/KG	0.94	0.8	2.1	2.6	2.1	1.9 J	0.56 U
Sodium	MG/KG	132 J	119 J	97.1	112	137	147 J	228
Thallium	MG/KG	0.22 U	0.22 U	0.22 U	0.21 U	0.22 U	0.19 U	0.83 J
Vanadium	MG/KG	17.7 J	20.4 J	21.4	16.4	14.7	13.5 J	25
Zinc	MG/KG	60.7 J	75 J	87.4 J	81.3 J	72.9 J	61.6 J	86.1 J

Note(s):

(1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)

(2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected; the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision

Seneca Army Depot Activity											
Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	FD-59-WS-03	WS-59-01-005-4	WS-59-01-005-5	WS-59-01-006-1	WS-59-01-006-12	WS-59-01-006-3	WS-59-01-006-7	WS-59-01-006-9	WS-59-01-007-1	WS-59-01-007-1	WS-59-01-007-1
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	FD-59-WS-03	WS-59-01-005-4	WS-59-01-005-5	WS-59-01-006-1	WS-59-01-006-12	WS-59-01-006-3	WS-59-01-006-7	WS-59-01-006-9	WS-59-01-007-1	WS-59-01-007-1	WS-59-01-007-1
Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
	I	I	I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics											
1,1,1-Trichloroethane	UG/KG	5.7 U	5.7 U	5.8 U	5.7 U	5.5 U	5.5 U	5.7 U	5.7 U	5.8 U	5.8 U
1,1,2,2-Tetrachloroethane	UG/KG	5.7 UJ	5.7 U	5.8 U	5.7 U	5.5 UJ	5.5 U	5.7 U	5.7 R	5.8 U	5.8 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5.7 U	5.7 U	5.8 U	5.7 U	5.5 U	5.5 U	5.7 U	5.7 U	5.8 U	5.8 U
1,1,2-Trichloroethane	UG/KG										
1,1-Dichloroethane	UG/KG	5.7 U	5.7 U	5.8 U	5.7 U	5.5 U	5.5 U	5.7 U	5.7 U	5.8 U	5.8 U
1,1-Dichloroethene	UG/KG	5.7 U	5.7 U	5.8 U	5.7 U	5.5 U	5.5 U	5.7 U	5.7 U	5.8 U	5.8 U
1,2,3-Trichloropropane	UG/KG	5.7 UJ	5.7 U	5.8 U	5.7 U	5.5 UJ	5.5 U	5.7 U	5.7 R	5.8 U	5.8 U
1,2,4-Trichlorobenzene	UG/KG	5.7 UJ	5.7 U	5.8 U	5.7 U	5.5 UJ	5.5 U	5.7 U	5.7 R	5.8 U	5.8 U
1,2-Dibromo-3-chloropropane	UG/KG										
1,2-Dibromoethane	UG/KG										
1,2-Dichlorobenzene	UG/KG	5.7 UJ	5.7 U	5.8 U	5.7 U	5.5 UJ	5.5 U	5.7 U	5.7 R	5.8 U	5.8 U
1,2-Dichloroethane	UG/KG	5.7 U	5.7 U	5.8 U	5.7 U	5.5 U	5.5 U	5.7 U	5.7 U	5.8 U	5.8 U
1,2-Dichloropropane	UG/KG										
1,3-Dichlorobenzene	UG/KG	5.7 UJ	5.7 U	5.8 U	5.7 U	5.5 UJ	5.5 U	5.7 U	5.7 R	5.8 U	5.8 U
1,3-Dichloropropane	UG/KG	5.7 U	5.7 U	5.8 U	5.7 U	5.5 U	5.5 U	5.7 U	5.7 UJ	5.8 U	5.8 U
1,4-Dichlorobenzene	UG/KG	5.7 UJ	5.7 U	5.8 U	5.7 U	5.5 UJ	5.5 U	5.7 U	5.7 R	5.8 U	5.8 U
Acetone	UG/KG	23 U	23 U	23 U	23 U	22 U	46	48 J	54 J	25	25
Benzene	UG/KG	5.7 U	5.7 U	5.8 U	5.7 U	5.5 U	5.5 U	5.7 U	5.7 U	5.8 U	5.8 U
Bromodichloromethane	UG/KG										
Bromoform	UG/KG										
Carbon disulfide	UG/KG	5.7 U	5.7 U	5.8 U	5.7 U	5.5 U	5.5 U	5.7 U	5.7 U	5.8 U	5.8 U
Carbon tetrachloride	UG/KG	5.7 U	5.7 U	5.8 U	5.7 U	5.5 U	5.5 U	5.7 U	5.7 U	5.8 U	5.8 U
Chlorobenzene	UG/KG	5.7 U	5.7 U	5.8 U	5.7 U	5.5 U	5.5 U	5.7 U	5.7 UJ	5.8 U	5.8 U
Chlorodibromomethane	UG/KG	5.7 U	5.7 U	5.8 U	5.7 U	5.5 U	5.5 U	5.7 U	5.7 UJ	5.8 U	5.8 U
Chloroethane	UG/KG	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	12 U	12 U
Chloroform	UG/KG	5.7 U	5.7 U	5.8 U	5.7 U	5.5 U	5.5 U	5.7 U	5.7 U	5.8 U	5.8 U
Cis-1,2-Dichloroethene	UG/KG										
Cis-1,3-Dichloropropene	UG/KG										
Cyclohexane	UG/KG										
Dichlorodifluoromethane	UG/KG										
Ethyl benzene	UG/KG	5.7 U	5.7 U	5.8 U	5.7 U	5.5 U	5.5 U	5.7 U	5.7 UJ	5.8 U	5.8 U
Isopropylbenzene	UG/KG										
Meta/Para Xylene	UG/KG	5.7 U	5.7 U	5.8 U	5.7 U	5.5 U	5.5 U	5.7 U	5.7 UJ	5.8 U	5.8 U
Methyl Acetate	UG/KG										
Methyl Tertbutyl Ether	UG/KG										
Methyl bromide	UG/KG										
Methyl butyl ketone	UG/KG										
Methyl chloride	UG/KG										

Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	FD-59-WS-03	WS-59-01-005-4	WS-59-01-005-5	WS-59-01-006-1	WS-59-01-006-12	WS-59-01-006-3	WS-59-01-006-7	WS-59-01-006-9	WS-59-01-007-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	FD-59-WS-03	WS-59-01-005-4	WS-59-01-005-5	WS-59-01-006-1	WS-59-01-006-12	WS-59-01-006-3	WS-59-01-006-7	WS-59-01-006-9	WS-59-01-007-1
	Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	J	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl cyclohexane	UG/KG									
Methyl ethyl ketone	UG/KG	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	2.7 J
Methyl isobutyl ketone	UG/KG	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	12 U
Methylene chloride	UG/KG	1.4 J	5.7 U	5.8 U	5.7 U	5.5 U	5.5 U	5.7 U	5.7 U	5.8 U
Ortho Xylene	UG/KG	5.7 U	5.7 U	5.8 U	5.7 U	5.5 U	5.5 U	5.7 U	5.7 U	5.8 U
Styrene	UG/KG									
Tetrachloroethene	UG/KG	5.7 U	5.7 U	5.8 U	5.7 U	5.5 U	5.5 U	5.7 U	5.7 U	5.8 U
Toluene	UG/KG	5.7 U	5.7 U	5.8 U	5.7 U	5.5 U	5.5 U	5.7 U	5.7 U	5.8 U
Total Xylenes	UG/KG									
Trans-1,2-Dichloroethene	UG/KG	5.7 U	5.7 U	5.8 U	5.7 U	5.5 U	5.5 U	5.7 U	5.7 U	5.8 U
Trans-1,3-Dichloropropene	UG/KG									
Trichloroethene	UG/KG	5.7 U	5.7 U	5.8 U	5.7 U	2.7 J	5.5 U	1.1 J	1.7 J	5.8 U
Trichlorofluoromethane	UG/KG									
Vinyl chloride	UG/KG	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	12 U
Semivolatile Organics										
1,1'-Biphenyl	UG/KG									
2,2'-oxybis(1-Chloropropane)	UG/KG									
2,4,5-Trichlorophenol	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U
2,4,6-Trichlorophenol	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U
2,4-Dichlorophenol	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U
2,4-Dimethylphenol	UG/KG									
2,4-Dinitrophenol	UG/KG	9600 U	3900 U	2000 U	9600 U	9300 U	9400 U	9700 U	19000 U	9900 U
2,4-Dinitrotoluene	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U
2,6-Dinitrotoluene	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U
2-Chloronaphthalene	UG/KG									
2-Chlorophenol	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U
2-Methylnaphthalene	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	210 J	3800 U	1200 J
2-Methylphenol	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U
2-Nitroaniline	UG/KG	9600 U	3900 U	2000 U	9600 U	9300 U	9400 U	9700 U	19000 U	9900 U
2-Nitrophenol	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U
3,3'-Dichlorobenzidine	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U
3-Nitroaniline	UG/KG	9600 U	3900 U	2000 U	9600 U	9300 U	9400 U	9700 U	19000 U	9900 U
4,6-Dinitro-2-methylphenol	UG/KG									
4-Bromophenyl phenyl ether	UG/KG									
4-Chloro-3-methylphenol	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U
4-Chloroaniline	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U
4-Chlorophenyl phenyl ether	UG/KG									
4-Methylphenol	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U
4-Nitroaniline	UG/KG									
4-Nitrophenol	UG/KG	9600 U	3900 U	2000 U	9600 U	9300 U	9400 U	9700 U	19000 U	9900 U
Aceonaphthene	UG/KG	200 J	110 J	380 U	360 J	330 J	520 J	460 J	440 J	720 J
Aceonaphthylene	UG/KG	1300 J	690 J	180 J	2400	3300	2500	2000	1600 J	2700
Aceophenone	UG/KG									
Aniline	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U
Anthracene	UG/KG	1000 J	730 J	150 J	2300	2400	2400	1900	2000 J	2800
Atrazine	UG/KG									

Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision

Parameter	Units	Seneca Army Depot Activity									
		SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	FD-59-WS-03	WS-59-01-005-4	WS-59-01-005-5	WS-59-01-006-1	WS-59-01-006-12	WS-59-01-006-3	WS-59-01-006-7	WS-59-01-006-9	WS-59-01-007-1	WS-59-01-007-1	WS-59-01-007-1
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	FD-59-WS-03	WS-59-01-005-4	WS-59-01-005-5	WS-59-01-006-1	WS-59-01-006-12	WS-59-01-006-3	WS-59-01-006-7	WS-59-01-006-9	WS-59-01-007-1	WS-59-01-007-1	WS-59-01-007-1
Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzaldehyde	UG/KG										
Benz(a)anthracene	UG/KG	2000	1700	440	5500	5300	5300	4300	5600	5200	
Benzo(a)pyrene	UG/KG	2400 J	1800	500	6000	6400 J	6900	5400	7400	5400	
Benzo(b)fluoranthene	UG/KG	1600 J	1200	400	4000	4300	4600	3900	5400	3600	
Benzo(ghi)perylene	UG/KG	1800 J	910	400	4100	4500	4800	4200	4900	3300	
Benzo(k)fluoranthene	UG/KG	1600 J	1300	380 J	4300	4100	4300	3700	5400	3600	
Benzoic Acid	UG/KG	9600 UJ	3900 U	2000 U	9600 U	9300 UJ	9400 U	9700 UJ	19000 U	9900 UJ	
Bis(2-Chloroethoxy)methane	UG/KG										
Bis(2-Chloroethyl)ether	UG/KG										
Bis(2-Ethylhexyl)phthalate	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U	
Butylbenzylphthalate	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U	
Caprolactam	UG/KG										
Carbazole	UG/KG										
Chrysene	UG/KG	2000	1700	460	5300	5100	5400	4400	5700	5000	
Di-n-butylphthalate	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U	
Di-n-octylphthalate	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U	
Dibenz(a,h)anthracene	UG/KG	560 J	310 J	120 J	1400 J	1500 J	1600 J	1400 J	1500 J	1100 J	
Dibenzofuran	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	210 J	1900 U	3800 U	450 J	
Diethyl phthalate	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U	
Dimethylphthalate	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U	
Fluoranthene	UG/KG	3600 J	2900	840	9900	9600 J	11000	8900	9500	11000	
Fluorene	UG/KG	1900 U	160 J	380 U	510 J	470 J	490 J	500 J	560 J	1300 J	
Hexachlorobenzene	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U	
Hexachlorobutadiene	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U	
Hexachlorocyclopentadiene	UG/KG										
Hexachloroethane	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U	
Indeno(1,2,3-cd)pyrene	UG/KG	1600 J	860	350 J	3600 J	4000 J	4500 J	3600 J	4700 J	3000 J	
Isophorone	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U	
N-Nitrosodiphenylamine	UG/KG										
N-Nitrosodipropylamine	UG/KG										
Naphthalene	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	240 NJ	3800 U	1000 J	
Nitrobenzene	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U	
Pentachlorophenol	UG/KG	9600 U	3900 U	2000 U	9600 U	9300 U	9400 U	9700 U	19000 U	9900 U	
Phenanthrene	UG/KG	1700 J	1600	370 J	5200	5200	5300	4400	4900	7800	
Phenol	UG/KG	1900 U	760 U	380 U	1900 U	1800 U	1800 U	1900 U	3800 U	1900 U	
Pyrene	UG/KG	3500 J	2500	820	9500	9000 J	9600	7400	8900	9800	
Pyridine	UG/KG	9600 U	3900 U	2000 U	9600 U	9300 U	9400 U	9700 U	19000 U	9900 U	
Pesticides/PCBs											
4,4'-DDD	UG/KG	120 J	25 J	19 U	23	18 UJ	20	49	90	28	
4,4'-DDE	UG/KG	260 J	100	96	140 J	18 UJ	110 J	100	230	28	
4,4'-DDT	UG/KG	520 J	150	78	110	18 UJ	52 J	130	190	51	
Aldrin	UG/KG	38 U	9.7 U	9.9 U	9.6 U	9.3 U	9.4 U	9.7 U	9.7 U	10 U	
Alpha-BHC	UG/KG	38 U	9.7 U	9.9 U	9.6 U	9.3 U	9.4 U	9.7 U	9.7 U	10 U	
Alpha-Chlordane	UG/KG	38 U	9.7 U	9.9 U	9.6 U	9.3 U	9.4 U	9.7 U	9.7 U	10 U	
Beta-BHC	UG/KG	38 U	9.7 U	9.9 U	9.6 U	9.3 U	9.4 U	9.7 U	9.7 U	10 U	
Delta-BHC	UG/KG	38 U	9.7 U	9.9 U	9.6 U	9.3 U	9.4 U	9.7 U	9.7 U	10 U	

Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	FD-59-WS-03	WS-59-01-005-4	WS-59-01-005-5	WS-59-01-006-1	WS-59-01-006-12	WS-59-01-006-3	WS-59-01-006-7	WS-59-01-006-9	WS-59-01-007-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	FD-59-WS-03	WS-59-01-005-4	WS-59-01-005-5	WS-59-01-006-1	WS-59-01-006-12	WS-59-01-006-3	WS-59-01-006-7	WS-59-01-006-9	WS-59-01-007-1
	Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dieldrin	UG/KG	75 U	19 U	19 U	19 U	18 U	18 U	19 U	19 U	19 U
Endosulfan I	UG/KG	38 U	9.7 U	9.9 U	9.6 U	9.3 U	9.4 U	9.7 U	9.7 U	10 U
Endosulfan II	UG/KG	75 U	19 U	19 U	19 U	18 U	18 U	19 U	19 U	19 U
Endosulfan sulfate	UG/KG	75 U	19 U	19 U	19 U	18 U	18 U	19 U	19 U	19 U
Endrin	UG/KG	75 U	19 U	19 U	19 U	18 U	18 U	19 U	19 U	19 U
Endrin aldehyde	UG/KG	75 U	19 U	19 U	19 U	18 U	18 U	19 U	19 U	19 U
Endrin ketone	UG/KG	75 U	19 U	19 U	19 U	18 U	18 U	19 U	19 U	19 U
Gamma-BHC/Lindane	UG/KG	38 U	9.7 U	9.9 U	9.6 U	9.3 U	9.4 U	9.7 U	9.7 U	10 U
Gamma-Chlordane	UG/KG	38 U	9.7 U	21 J	9.6 U	9.3 U	9.4 U	9.7 U	9.7 U	10 U
Heptachlor	UG/KG	38 U	9.7 U	9.9 U	9.6 U	9.3 U	9.4 U	9.7 U	9.7 U	10 U
Heptachlor epoxide	UG/KG	38 U	9.7 U	9.9 U	9.6 U	9.3 U	9.4 U	9.7 U	9.7 U	10 U
Methoxychlor	UG/KG	380 U	97 U	99 U	96 U	93 U	94 U	97 U	97 U	99 U
Toxaphene	UG/KG	750 U	190 U	190 U	190 U	180 U	180 U	190 U	190 U	190 U
Aroclor-1016	UG/KG	37 U	38 U	38 U	37 U	36 U	36 U	38 U	38 U	39 U
Aroclor-1221	UG/KG	37 U	38 U	38 U	37 U	36 U	36 U	38 U	38 U	39 U
Aroclor-1232	UG/KG	37 U	38 U	38 U	37 U	36 U	36 U	38 U	38 U	39 U
Aroclor-1242	UG/KG	37 U	38 U	38 U	37 U	36 U	36 U	38 U	38 U	39 U
Aroclor-1248	UG/KG	37 U	38 U	38 U	37 U	36 U	36 U	38 U	38 U	39 U
Aroclor-1254	UG/KG	37 U	38 U	38 U	37 U	36 U	36 U	38 U	38 U	39 U
Aroclor-1260	UG/KG	37 U	38 U	38 U	37 U	36 U	36 U	38 U	38 U	39 U
Metals										
Aluminum	MG/KG	9910	11000	13400	9740	10700	11900	10900	11400	10800
Antimony	MG/KG	3.4 UJ	3.4 UJ	3.4 UJ	3.4 UJ	3.2 UJ	3.3 UJ	3.3 UJ	3.4 UJ	3.4 UJ
Arsenic	MG/KG	5.8 J	4.1	5.4	4.5	4.8 J	5.1	5.1 J	5.8 J	4.8 J
Barium	MG/KG	85.1	88.1	128	93.5	80.1	99.5	88.6	90.8	98
Beryllium	MG/KG	0.27	0.69	0.16	0.2	0.27	0.21	0.34	0.58	0.36
Cadmium	MG/KG	0.61	0.28 U	0.67	0.57 J	0.66	0.43 J	0.73	0.76	0.62
Calcium	MG/KG	52900	25000	17500	45300	59000	70600	46900	41200	41600
Chromium	MG/KG	17	19	20.6	25.6	18.8	19.1	22.5	21.3	19.4
Cobalt	MG/KG	10.2	8.6	10.2	9.1	10.4	10.5	11.3	13.9	10.1
Copper	MG/KG	28.2 J	30.5 J	31.8	32.3	29.1 J	31.3	32.5 J	43.6 J	37.4 J
Iron	MG/KG	18100	20600	22200	18800	19600	21500	21300	21200	18800
Lead	MG/KG	50.9	55.3 J	38.1	82.9	69.1	56.7	77	51.8	64.6
Magnesium	MG/KG	9070	5680	6320	7410	8020	8340	7390	7690	7170
Manganese	MG/KG	461	387	529	451	529	642	547	476	479
Mercury	MG/KG	0.06	0.08	0.1	0.06	0.04	0.05	0.07	0.08	0.04
Nickel	MG/KG	26.9	25.5	26.5	26.3	30	26.5	33.8	36.1	28
Potassium	MG/KG	1060	1180	1320	1060	1050	1190	1120	1200	1120
Selenium	MG/KG	0.57 U	0.57 U	0.56 U	0.57 UJ	0.53 U	0.54 UJ	0.55 U	0.57 U	0.56 U
Silver	MG/KG	0.57 UJ	0.57 U	0.6 J	0.57 U	0.53 UJ	0.54 U	0.55 UJ	0.57 UJ	1.1 J
Sodium	MG/KG	178	111	68.5	93	148	107	225	192 J	151 J
Thallium	MG/KG	0.57 U	0.57 U	0.87 J	0.57 U	0.53 U	0.69 J	0.55 U	0.65 J	0.69 J
Vanadium	MG/KG	18.6	20.1	23	17.1	18.3	20.6	19.5	19.9	18.9
Zinc	MG/KG	135 J	81.9 J	87.9	89.8	87.2 J	110	106 J	185 J	84 J

**Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	FD-59-WS-03	WS-59-01-005-4	WS-59-01-005-5	WS-59-01-006-1	WS-59-01-006-12	WS-59-01-006-3	WS-59-01-006-7	WS-59-01-006-9	WS-59-01-007-1	WS-59-01-007-1
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	FD-59-WS-03	WS-59-01-005-4	WS-59-01-005-5	WS-59-01-006-1	WS-59-01-006-12	WS-59-01-006-3	WS-59-01-006-7	WS-59-01-006-9	WS-59-01-007-1	WS-59-01-007-1
Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
	I	I	I	I	I	I	I	I	I	I

Note(s):
 (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
 (2) - Sample Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis

IJ = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected; the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-007-10	WS-59-01-007-11	WS-59-01-007-12	WS-59-01-007-13	WS-59-01-007-14	WS-59-01-007-2	WS-59-01-007-5	WS-59-01-007-6	WS-59-01-007-8	WS-59-01-008-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-007-10	WS-59-01-007-11	WS-59-01-007-12	WS-59-01-007-13	WS-59-01-007-14	WS-59-01-007-2	WS-59-01-007-5	WS-59-01-007-6	WS-59-01-007-8	WS-59-01-008-1
	Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics											
1,1,1-Trichloroethane	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
1,1,2,2-Tetrachloroethane	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
1,1,2-Trichloroethane	UG/KG										
1,1-Dichloroethane	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
1,1-Dichloroethene	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
1,2,3-Trichloropropane	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
1,2,4-Trichlorobenzene	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
1,2-Dibromo-3-chloropropane	UG/KG										
1,2-Dibromoethane	UG/KG										
1,2-Dichlorobenzene	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
1,2-Dichloroethane	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
1,2-Dichloropropane	UG/KG										
1,3-Dichlorobenzene	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
1,3-Dichloropropane	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
1,4-Dichlorobenzene	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
Acetone	UG/KG	17 J	23 U	22 U	5.1 J	22 U	25	5.8 J	23 U	23 U	24 U
Benzene	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
Bromodichloromethane	UG/KG										
Bromoform	UG/KG										
Carbon disulfide	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
Carbon tetrachloride	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
Chlorobenzene	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
Chlorodibromomethane	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
Chloroethane	UG/KG	11 U	12 U	11 U	12 U	11 U	11 U	11 U	12 U	11 U	12 U
Chloroform	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
Cis-1,2-Dichloroethene	UG/KG										
Cis-1,3-Dichloropropene	UG/KG										
Cyclohexane	UG/KG										
Dichlorodifluoromethane	UG/KG										
Ethyl benzene	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
Isopropylbenzene	UG/KG										
Meta/Para Xylene	UG/KG	5.6 U	5.8 U	5.6 U	2.3 J	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
Methyl Acetate	UG/KG										
Methyl Tertiary Ether	UG/KG										
Methyl bromide	UG/KG										
Methyl butyl ketone	UG/KG										
Methyl chloride	UG/KG										

Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-007-10	WS-59-01-007-11	WS-59-01-007-12	WS-59-01-007-13	WS-59-01-007-14	WS-59-01-007-2	WS-59-01-007-5	WS-59-01-007-6	WS-59-01-007-8	WS-59-01-008-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-007-10	WS-59-01-007-11	WS-59-01-007-12	WS-59-01-007-13	WS-59-01-007-14	WS-59-01-007-2	WS-59-01-007-5	WS-59-01-007-6	WS-59-01-007-8	WS-59-01-008-1
	Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl cyclohexane	UG/KG										
Methyl ethyl ketone	UG/KG	4.6 J	12 U	11 U	2.6 J	11 U	11 U	11 U	12 U	11 U	12 U
Methyl isobutyl ketone	UG/KG	11 U	12 U	11 U	12 U	11 U	11 U	11 U	12 U	11 U	12 U
Methylene chloride	UG/KG	5.6 U	5.8 U	5.6 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.6 U	5.9 U
Ortho Xylene	UG/KG	5.6 U	5.8 U	5.6 U	1.6 J	1 J	5.7 U	5.7 U	5.8 U	1.4 J	1.7 J
Styrene	UG/KG										
Tetrachloroethene	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
Toluene	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
Total Nylenes	UG/KG										
Trans-1,2-Dichloroethene	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	5.6 U	5.9 U
Trans-1,1-Dichloropropene	UG/KG										
Trichloroethene	UG/KG	5.6 U	5.8 U	5.6 U	5.8 U	5.6 U	5.7 U	5.7 U	5.8 U	1.4 J	5.9 U
Trichlorofluoromethane	UG/KG										
Vinyl chloride	UG/KG	11 U	12 U	11 U	12 U	11 U	11 U	11 U	12 U	11 U	12 U
Semivolatile Organics											
1,1'-Biphenyl	UG/KG										
2,2-dimethyl-1-Chloropropane	UG/KG										
2,4,5-Trichlorophenol	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	2000 U
2,4,6-Trichlorophenol	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	2000 U
2,4-Dichlorophenol	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	2000 U
2,4-Dimethylphenol	UG/KG										
2,4-Dinitrophenol	UG/KG	9500 U	9900 U	9600 U	9900 U	19000 U	9700 U	9700 U	9900 U	19000 U	10000 U
2,4-Dinitrotoluene	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	2000 U
2,6-Dinitrotoluene	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	2000 U
2-Chloronaphthalene	UG/KG										
2-Chlorophenol	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	2000 U
2-Methylnaphthalene	UG/KG	1800 U	1900 U	290 J	860 J	600 J	240 J	1900 U	1900 U	3700 U	610 J
2-Methylphenol	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	2000 U
2-Nitroaniline	UG/KG	9500 U	9900 U	9600 U	9900 U	19000 U	9700 U	9700 U	9900 U	19000 U	10000 U
2-Nitrophenol	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	2000 U
3,3'-Dichlorobenzidine	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	2000 U
3-Nitroaniline	UG/KG	9500 U	9900 U	9600 U	9900 U	19000 U	9700 U	9700 U	9900 U	19000 U	10000 U
4,6-Dinitro-2-methylphenol	UG/KG										
4-Bromophenyl phenyl ether	UG/KG										
4-Chloro-3-methylphenol	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	2000 U
4-Chloroaniline	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	2000 U
4-Chlorophenyl phenyl ether	UG/KG										
4-Methylphenol	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	2000 U
4-Nitroaniline	UG/KG										
4-Nitrophenol	UG/KG	9500 U	9900 U	9600 U	9900 U	19000 U	9700 U	9700 U	9900 U	19000 U	10000 U
Acenaphthene	UG/KG	250 J	370 J	580 J	780 J	1500 J	340 J	370 J	410 J	780 J	630 J
Acenaphthylene	UG/KG	960 J	1300 J	2200 J	1600 J	3500 J	1100 J	1500 J	1200 J	3000 J	1500 J
Acetophenone	UG/KG										
Aniline	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	2000 U
Anthracene	UG/KG	880 J	1300 J	2300 J	2200 J	6600 J	1400 J	1300 J	1600 J	3100 J	2500 J
Atrazine	UG/KG										

Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	WS-59-01-007-10	WS-59-01-007-11	WS-59-01-007-12	WS-59-01-007-13	WS-59-01-007-14	WS-59-01-007-2	WS-59-01-007-5	WS-59-01-007-6	WS-59-01-007-8	WS-59-01-008-1	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample ID	WS-59-01-007-10	WS-59-01-007-11	WS-59-01-007-12	WS-59-01-007-13	WS-59-01-007-14	WS-59-01-007-2	WS-59-01-007-5	WS-59-01-007-6	WS-59-01-007-8	WS-59-01-008-1	
Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0	
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	
Units	I	I	I	I	I	I	I	I	I	I	
Value (Q)											
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Benzaldehyde	UG/KG										
Benzo(a)anthracene	UG/KG	2200	3000	5400	3800	13000	4300	3600	3400	6900	
Benzo(a)pyrene	UG/KG	2700	3100	5900	4300	14000	4600	4400	3600	8200	
Benzo(b)fluoranthene	UG/KG	2000	2300	4300	2900	9800	3300	3200	2800	5800	
Benzo(ghi)perylene	UG/KG	1700 J	1600 J	2900	2100	6800	2600	3000	2000	4200	
Benzo(k)fluoranthene	UG/KG	2000	2400	4500	3200	11000	3400	3400	2700	6300	
Benzoic Acid	UG/KG	9500 U	9900 U	9600 U	9900 U	19000 U	9700 U	9700 U	9900 U	19000 U	
Bis(2-Chloromethoxy)methane	UG/KG										
Bis(2-Chloroethyl)ether	UG/KG										
Bis(2-Ethylhexyl)phthalate	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	
Butylbenzylphthalate	UG/KG	1800 UJ	1900 UJ	1900 UJ	1900 UJ	3700 UJ	1900 U	1900 U	1900 UJ	3700 UJ	
Caprolactam	UG/KG										
Carbazole	UG/KG										
Chrysene	UG/KG	2300	3200	5400	3800	13000	4200	3600	3300	7000	
Di-n-butylphthalate	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	
Di-n-octylphthalate	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	
Dibenz(a,h)anthracene	UG/KG	550 J	550 J	1100 J	780 J	2500 J	870 J	940 J	740 J	1600 J	
Dibenzofuran	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	
Diethyl phthalate	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	
Dimethylphthalate	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	
Fluoranthene	UG/KG	4400	7500	11000	8100	29000	7600	7000	7200	14000	
Fluorene	UG/KG	240 J	420 J	810 J	1400 J	2300 J	470 J	460 J	730 J	1100 J	
Hexachlorobenzene	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	
Hexachlorobutadiene	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	
Hexachlorocyclopentadiene	UG/KG										
Hexachloroethane	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	
Indeno(1,2,3-cd)pyrene	UG/KG	1600 J	1600 J	2800 J	2000 J	7000 J	2500 J	2600 J	2000 J	4100 J	
Isophorone	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	
N-Nitrosodiphenylamine	UG/KG										
N-Nitrosodipropylamine	UG/KG										
Naphthalene	UG/KG	1800 U	220 NJ	500 J	1200 J	880 J	260 J	200 J	1900 U	440 NJ	
Nitrobenzene	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	
Pentachloroplenol	UG/KG	9500 U	9900 U	9600 U	9900 U	19000 U	9700 U	9400 U	9400 U	19000 U	
Phenanthrene	UG/KG	2200	4000	6000	6400	17000	3000	3600	4800	7700	
Phenol	UG/KG	1800 U	1900 U	1900 U	1900 U	3700 U	1900 U	1900 U	1900 U	3700 U	
Pyrene	UG/KG	3500	5600	9300	6300	19000	6500	7100	6100	13000	
Pyridine	UG/KG	9500 U	9900 U	9600 U	9900 U	19000 U	9700 U	9700 U	9900 U	19000 U	
Pesticides/PCBs											
4,4'-DDD	UG/KG	19	30	29	65	27	19 U	53	26	21	
4,4'-DDE	UG/KG	22	52 J	35	96 J	47	50	47	42 J	29	
4,4'-DDT	UG/KG	20	34	29	95	59	52	32	33	43	
Aldrin	UG/KG	9.5 U	9.9 U	9.6 U	9.9 U	9.5 U	9.7 U	9.7 U	10 U	9.6 U	
Alpha-BHC	UG/KG	9.5 U	9.9 U	9.6 U	9.9 U	9.5 U	9.7 U	9.7 U	10 U	9.6 U	
Alpha-Chlordane	UG/KG	9.5 U	9.9 U	9.6 U	9.9 U	9.5 U	9.7 U	9.7 U	10 U	9.6 U	
Beta-BHC	UG/KG	9.5 U	9.9 U	9.6 U	9.9 U	9.5 U	9.7 U	9.7 U	10 U	9.6 U	
Delta-BHC	UG/KG	9.5 U	9.9 U	9.6 U	9.9 U	9.5 U	9.7 U	9.7 U	10 U	9.6 U	

Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility	SFAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	WS-59-01-007-10	WS-59-01-007-11	WS-59-01-007-12	WS-59-01-007-13	WS-59-01-007-14	WS-59-01-007-2	WS-59-01-007-5	WS-59-01-007-6	WS-59-01-007-8	WS-59-01-008-1	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample ID	WS-59-01-007-10	WS-59-01-007-11	WS-59-01-007-12	WS-59-01-007-13	WS-59-01-007-14	WS-59-01-007-2	WS-59-01-007-5	WS-59-01-007-6	WS-59-01-007-8	WS-59-01-008-1	
Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0	
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dieldrin	UG/KG	18 U	19 U	19 U	19 U	18 U	19 U	19 U	19 U	19 U	20 U
Endosulfan I	UG/KG	9.5 U	9.9 U	9.6 U	9.9 U	9.5 U	9.7 U	9.7 U	10 U	9.6 U	10 U
Endosulfan II	UG/KG	18 U	19 U	19 U	19 U	18 U	19 U	19 U	19 U	19 U	20 U
Endosulfan sulfate	UG/KG	18 U	19 U	19 U	19 U	18 U	19 U	19 U	19 U	19 U	20 U
Endrin	UG/KG	18 U	19 U	19 U	19 U	18 U	19 U	19 U	19 U	19 U	20 U
Endrin aldehyde	UG/KG	18 U	19 U	19 U	19 U	18 U	19 U	19 U	19 U	19 U	20 U
Endrin ketone	UG/KG	18 U	19 U	19 U	19 U	18 U	19 U	19 U	19 U	19 U	20 U
Gamma-BHC ¹ -Lindane	UG/KG	9.5 U	9.9 U	9.6 U	9.9 U	9.5 U	9.7 U	9.7 U	10 U	9.6 U	10 U
Gamma-Chlordane	UG/KG	9.5 U	9.9 U	9.6 U	9.9 U	9.5 U	9.7 U	9.7 U	10 U	9.6 U	10 U
Heptachlor	UG/KG	9.5 U	9.9 U	9.6 U	9.9 U	9.5 U	9.7 U	9.7 U	10 U	9.6 U	10 U
Heptachlor epoxide	UG/KG	9.5 U	9.9 U	9.6 U	9.9 U	9.5 U	9.7 U	9.7 U	10 U	9.6 U	10 U
Methoxychlor	UG/KG	95 U	99 U	96 U	99 U	95 U	97 U	97 U	99 U	96 U	100 U
Toxaphene	UG/KG	180 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	200 U
Aroclor-1016	UG/KG	37 U	38 U	37 U	38 U	37 U	38 U	38 U	38 U	37 U	39 U
Aroclor-1221	UG/KG	37 U	38 U	37 U	38 U	37 U	38 U	38 U	38 U	37 U	39 U
Aroclor-1232	UG/KG	37 U	38 U	37 U	38 U	37 U	38 U	38 U	38 U	37 U	39 U
Aroclor-1242	UG/KG	37 U	38 U	37 U	38 U	37 U	38 U	38 U	38 U	37 U	39 U
Aroclor-1248	UG/KG	37 U	38 U	37 U	38 U	37 U	38 U	38 U	38 U	37 U	39 U
Aroclor-1254	UG/KG	37 U	38 U	37 U	38 U	37 U	38 U	38 U	38 U	37 U	39 U
Aroclor-1260	UG/KG	37 U	38 U	37 U	38 U	37 U	38 U	38 U	38 U	37 U	39 U
Metals											
Aluminum	MG/KG	8340	8800	10400	11000	10700	11300	10700	10900	9580	12200
Antimony	MG/KG	3.2 UJ	3.4 UJ	3.3 UJ	3.5 UJ	3.3 UJ	3.4 UJ	3.3 UJ	3.4 UJ	3.2 UJ	3.5 UJ
Arsenic	MG/KG	4.4	4.6	5.9	5	4.6	5.3	4.5	4.9	4.8	5.2
Barium	MG/KG	74.7	69.7	81.4	87.8	78.5	89.6	84.9	95.4	81.5	101
Beryllium	MG/KG	0.21	0.28	0.3	0.4	0.38	0.38	0.28	0.32	0.27	0.36 J
Cadmium	MG/KG	0.7	0.64	0.72	0.72	0.72	0.66	0.76	0.64	0.66	0.52 J
Calcium	MG/KG	94200	64700	59200	39800	54000	33400	53300	36800	82600	33800 J
Chromium	MG/KG	21.4	17.7	18	19.2	19.6	31.8	19.9	18.7	17.6	20.5
Cobalt	MG/KG	8.1	8.2	13.9	11.5	11	11.5	10.4	9.7	10.8	10.3
Copper	MG/KG	27.3	25.9	36.2	38.3	30.8	31.4 J	28.2	33.9	26.9	29.4
Iron	MG/KG	16100	16500	20900	21200	20900	20300	19300	19800	18200	21900
Lead	MG/KG	66.2 J	47.9 J	59.4 J	45.5 J	32.7 J	42.9	77.5 J	38.8 J	37.4 J	33.9 J
Magnesium	MG/KG	8830	9950	10200	7750	10200	7020	8370	9510	10300	7700 J
Manganese	MG/KG	438	419	453	499	510	474	475	459	560	416
Mercury	MG/KG	0.1	0.07	0.05	0.07	0.04	0.08	0.05	0.05	0.06	0.11
Nickel	MG/KG	26.5	26.3	56.6	31.2	33.3	31.7	33.2	27.9	28.7	30.7
Potassium	MG/KG	939	949	1090	1110	1120	1150	1090	1080	1080	1490
Selenium	MG/KG	0.53 U	0.56 UJ	0.56 UJ	0.58 UJ	0.69 J	0.56 U	0.56 U	0.57 U	0.54 U	0.59 U
Silver	MG/KG	0.53 UJ	0.56 UJ	0.55 UJ	0.58 UJ	0.55 UJ	0.85 J	0.56 UJ	0.57 UJ	0.54 UJ	0.59 U
Sodium	MG/KG	121	136	123	118	106	115	110	128	174	174
Thallium	MG/KG	0.53 U	0.67 J	0.6 J	0.58 U	0.6 J	0.56 U	0.56 U	0.57 U	0.59 J	0.78 J
Vanadium	MG/KG	35.4	23.2	20.8	21.2	18.6	19.4	20.2	21.1	18.7	22.9
Zinc	MG/KG	90.8	87.4	78.6	98.1	85.5	113 J	88.9	88.5	77.9	118 J

**Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	WS-59-01-007-10	WS-59-01-007-11	WS-59-01-007-12	WS-59-01-007-13	WS-59-01-007-14	WS-59-01-007-2	WS-59-01-007-5	WS-59-01-007-6	WS-59-01-007-8	WS-59-01-008-1	WS-59-01-008-1
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	WS-59-01-007-10	WS-59-01-007-11	WS-59-01-007-12	WS-59-01-007-13	WS-59-01-007-14	WS-59-01-007-2	WS-59-01-007-5	WS-59-01-007-6	WS-59-01-007-8	WS-59-01-008-1	WS-59-01-008-1
Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
	I	I	I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)

Notes:

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected; the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-008-2	WS-59-01-008-3	WS-59-01-011-1	WS-59-01-011-2	WS-59-01-011-5	WS-59-01-011-6	WS-59-01-011-7	WS-59-01-011-8	WS-59-01-011-9	WS-59-01-012-2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-008-2	WS-59-01-008-3	WS-59-01-011-1	WS-59-01-011-2	WS-59-01-011-5	WS-59-01-011-6	WS-59-01-011-7	WS-59-01-011-8	WS-59-01-011-9	WS-59-01-012-2
	Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics											
1,1,1-Trichloroethane	UG/KG	5.6 U	5.8 U	5 U	6 U	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
1,1,2,2-Tetrachloroethane	UG/KG	5.6 U	5.8 U	5 U	6 U	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5.6 U	5.8 U	5 U	6 U	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
1,1,2-Trichloroethane	UG/KG			5 U	6 U						6 U
1,1-Dichloroethane	UG/KG	5.6 U	5.8 U	5 U	6 U	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
1,1-Dichloroethene	UG/KG	5.6 U	5.8 U	5 U	6 U	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
1,2,3-Trichloropropane	UG/KG	5.6 U	5.8 U			5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	
1,2,4-Trichlorobenzene	UG/KG	5.6 U	5.8 U	5 U	6 U	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
1,2-Dibromo-3-chloropropane	UG/KG			5 U	6 U						6 U
1,2-Dibromoethane	UG/KG			5 U	6 U						6 U
1,2-Dichlorobenzene	UG/KG	5.6 U	5.8 U	5 U	6 U	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
1,2-Dichloroethane	UG/KG	5.6 U	5.8 U	5 U	6 U	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
1,2-Dichloropropane	UG/KG			5 U	6 U						6 U
1,3-Dichlorobenzene	UG/KG	5.6 U	5.8 U	5 U	6 U	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
1,3-Dichloropropane	UG/KG	5.6 U	5.8 U			5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	
1,4-Dichlorobenzene	UG/KG	5.6 U	5.8 U	5 U	6 U	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
Acetone	UG/KG	22 U	23 U	5 U	6 U	23 U	22 U	23 U	22 U	24 U	69 U
Benzene	UG/KG	5.6 U	5.8 U	5 U	6 U	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
Bromodichloromethane	UG/KG			5 U	6 U						6 U
Bromoform	UG/KG			5 U	6 U						6 U
Carbon disulfide	UG/KG	5.6 U	5.8 U	5 U	6 U	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
Carbon tetrachloride	UG/KG	5.6 U	5.8 U	5 U	6 U	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
Chlorobenzene	UG/KG	5.6 U	5.8 U	5 U	6 U	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
Chlorodibromomethane	UG/KG	5.6 U	5.8 U	5 U	6 U	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
Chloroethane	UG/KG	11 U	12 U	5 U	6 U	11 U	11 U	12 U	11 U	12 U	6 U
Chloroform	UG/KG	5.6 U	5.8 U	5 U	6 U	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
Cis-1,2-Dichloroethene	UG/KG			5 U	6 U						6 U
Cis-1,3-Dichloropropene	UG/KG			5 U	6 U						6 U
Cyclohexane	UG/KG			5 U	6 U						6 U
Dichlorodifluoromethane	UG/KG			5 U	6 U						6 U
Ethyl benzene	UG/KG	5.6 U	5.8 U	5 U	6 U	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
Isopropylbenzene	UG/KG			5 U	6 U						6 U
Meta/Para Xylene	UG/KG	5.6 U	5.8 U			5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	
Methyl Acetate	UG/KG			5 U	6 U						6 U
Methyl Tertbutyl Ether	UG/KG			5 U	6 U						6 U
Methyl bromide	UG/KG			5 U	6 U						6 U
Methyl butyl ketone	UG/KG			5 U	6 U						6 U
Methyl chloride	UG/KG			5 U	6 U						6 U

Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-008-2	WS-59-01-008-3	WS-59-01-011-1	WS-59-01-011-2	WS-59-01-011-5	WS-59-01-011-6	WS-59-01-011-7	WS-59-01-011-8	WS-59-01-011-9	WS-59-01-012-2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-008-2	WS-59-01-008-3	WS-59-01-011-1	WS-59-01-011-2	WS-59-01-011-5	WS-59-01-011-6	WS-59-01-011-7	WS-59-01-011-8	WS-59-01-011-9	WS-59-01-012-2
	Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl cyclohexane	UG/KG			5 U	6 UJ						6 U
Methyl ethyl ketone	UG/KG	11 U	12 U	5 U	6 UJ	11 U	11 U	12 U	11 U	12 U	7 J
Methyl isobutyl ketone	UG/KG	11 U	12 U	5 U	6 UJ	11 U	11 U	12 U	11 U	12 U	6 U
Methylene chloride	UG/KG	5.6 U	5.8 U	5 U	6 UJ	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
Ortho Xylene	UG/KG	5.6 U	5.8 U			5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	
Styrene	UG/KG			5 U	6 UJ						6 U
Tetrachloroethene	UG/KG	5.6 U	5.8 U	5 U	6 UJ	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
Toluene	UG/KG	5.6 U	5.8 U	5 U	6 UJ	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
Total Xylenes	UG/KG			3 J	6 UJ						6 UJ
Trans-1,2-Dichloroethene	UG/KG	5.6 U	5.8 U	5 U	6 UJ	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
Trans-1,3-Dichloropropene	UG/KG			5 U	6 UJ						6 U
Trichloroethene	UG/KG	5.6 U	5.8 U	5 U	6 UJ	5.7 U	5.6 U	5.8 U	5.6 U	5.9 U	6 U
Trichlorofluoromethane	UG/KG			5 U	6 UJ						6 U
Vinyl chloride	UG/KG	11 U	12 U	5 U	6 UJ	11 U	11 U	12 U	11 U	12 U	6 U
Semivolatile Organics											
1,1'-Biphenyl	UG/KG			1800 U	1900 U						59 J
2,2'-oxybis(1-Chloropropane)	UG/KG			1800 U	1900 U						380 U
2,4,5-Trichlorophenol	UG/KG	3700 U	1900 U	4500 U	4700 U	750 U	1900 U	3800 U	1800 U	2000 U	950 U
2,4,6-Trichlorophenol	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 U
2,4-Dichlorophenol	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 U
2,4-Dimethylphenol	UG/KG			1800 U	1900 U						380 U
2,4-Dinitrophenol	UG/KG	19000 U	9900 U	4500 U	4700 U	3900 U	9600 U	20000 U	9500 U	10000 U	950 UJ
2,4-Dinitrotoluene	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 U
2,6-Dinitrotoluene	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 U
2-Chloronaphthalene	UG/KG			1800 U	1900 U						380 U
2-Chlorophenol	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 U
2-Methylnaphthalene	UG/KG	3700 U	570 J	940 J	240 J	750 U	490 J	3800 U	580 J	210 J	300 J
2-Methylphenol	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 U
2-Nitroaniline	UG/KG	19000 U	9900 U	4500 U	4700 U	3900 U	9600 U	20000 U	9500 U	10000 U	950 U
2-Nitrophenol	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 U
3,3'-Dichlorobenzidine	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 UJ
3-Nitroaniline	UG/KG	19000 U	9900 U	4500 U	4700 U	3900 U	9600 U	20000 U	9500 U	10000 U	950 U
4,6-Dinitro-2-methylphenol	UG/KG			4500 U	4700 U						950 U
4-Bromophenyl phenyl ether	UG/KG			1800 U	1900 U						380 U
4-Chloro-3-methylphenol	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 U
4-Chloroaniline	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 UJ
4-Chlorophenyl phenyl ether	UG/KG			1800 U	1900 U						380 U
4-Methylphenol	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 U
4-Nitroaniline	UG/KG			4500 U	4700 U						950 U
4-Nitrophenol	UG/KG	19000 U	9900 U	4500 U	4700 U	3900 U	9600 U	20000 U	9500 U	10000 U	950 U
Acenaphthene	UG/KG	530 J	660 J	1200 J	420 J	560 J	900 J	1300 J	520 J	1200 J	440
Acenaphthylene	UG/KG	2700 J	2200	1600 J	1400 J	620 J	1700 J	3200 J	3300	2600	930
Acetophenone	UG/KG			1800 U	1900 U						380 U
Aniline	UG/KG	3700 U	1900 U			750 U	1900 U	3800 U	1800 U	2000 U	380 U
Anthracene	UG/KG	2400 J	2900	4100	2300	540 J	2200	4300	4900	2500	1500
Atrazine	UG/KG			1800 U	1900 U						380 U

Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-008-2	WS-59-01-008-3	WS-59-01-011-1	WS-59-01-011-2	WS-59-01-011-5	WS-59-01-011-6	WS-59-01-011-7	WS-59-01-011-8	WS-59-01-011-9	WS-59-01-012-2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-008-2	WS-59-01-008-3	WS-59-01-011-1	WS-59-01-011-2	WS-59-01-011-5	WS-59-01-011-6	WS-59-01-011-7	WS-59-01-011-8	WS-59-01-011-9	WS-59-01-012-2
	Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzaldehyde	UG/KG			1800 U	1900 U						380 U
Benzo(a)anthracene	UG/KG	8400	7800	8200	6900	1600	5800	14000	12000	7700	5700 NJ
Benzo(a)pyrene	UG/KG	11000	9400	9500	7400	1900	6300	16000	15000	9900	5700
Benzo(b)fluoranthene	UG/KG	7300	6700	10000	8100	1600	4600	11000	11000	7700	6500
Benzo(g)herylene	UG/KG	6400	5500	5400	4200	1000	3100	8000	7000	5200	2700 J
Benzo(k)fluoranthene	UG/KG	7200	6500	4200	3200	1600	5100	13000	11000	7600	3200
Benzoic Acid	UG/KG	19000 U	9900 U			3900 UJ	9600 UJ	20000 UJ	9500 UJ	10000 UJ	
Bis(2-Chloroethoxy)methane	UG/KG			1800 U	1900 U						380 U
Bis(2-Chloroethyl)ether	UG/KG			1800 U	1900 U						380 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	130 NJ
Butylbenzylphthalate	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 UJ
Caprolactam	UG/KG			1800 U	1900 U						380 U
Carbazole	UG/KG			1100 J	320 J						240 J
Chrysene	UG/KG	8500	7900	8000	6600	1600	5900	13000	12000	7700	5600
Di-n-butylphthalate	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 U
Di-n-octylphthalate	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 UJ
Dibenz(a,h)anthracene	UG/KG	2200 J	1900 J	1600 J	1200 J	330 J	1100 J	2800 J	2600 J	1900 J	820 J
Dibenzofuran	UG/KG	3700 U	460 J	950 J	230 J	750 U	420 J	510 J	770 J	240 J	260 J
Diethyl phthalate	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 UJ
Dimethylphthalate	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 UJ
Fluoranthene	UG/KG	14000	14000	13000	12000	2900	10000	23000	21000	12000	7300
Fluorene	UG/KG	700 J	1200 J	1900	700 J	140 J	880 J	1200 J	1800 J	700 J	690
Hexachlorobenzene	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 U
Hexachlorobutadiene	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 UJ
Hexachlorocyclopentadiene	UG/KG			1800 U	1900 U						380 UJ
Hexachloroethane	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 UJ
Indene(1,2,3-cd)pyrene	UG/KG	5900 J	5200 J	5800	4500	1000 J	3000 J	8000 J	7000 J	5100 J	2600 J
Isophorone	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 UJ
N-Nitrosodiphenylamine	UG/KG			1800 U	1900 U						380 U
N-Nitrosodipropylamine	UG/KG			1800 U	1900 U						380 UJ
Naphthalene	UG/KG	3700 U	370 J	1100 J	260 J	750 U	520 J	400 J	570 J	270 J	350 J
Nitrobenzene	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 UJ
Pentachlorophenol	UG/KG	19000 U	9900 U	4500 U	4700 U	3900 U	9600 U	20000 U	9500 U	10000 U	950 U
Phenanthrene	UG/KG	4500	7600	12000	5200	1400	6400	9500	12000	4600	3400
Phenol	UG/KG	3700 U	1900 U	1800 U	1900 U	750 U	1900 U	3800 U	1800 U	2000 U	380 UJ
Pyrene	UG/KG	13000	12000	13000	14000	2600	12000	20000	18000	11000	9300
Pyridine	UG/KG	19000 U	9900 U			3900 U	9600 U	20000 U	9500 U	10000 U	
Pesticides/PCBs											
4,4'-DDD	UG/KG	19	43	60 J	15 J	95	70	35	48	20 U	93 NJ
4,4'-DDE	UG/KG	18 U	19 U	36 NJ	28 NJ	51 J	130	71	120	51	24 NJ
4,4'-DDT	UG/KG	33 J	35	110 J	38 J	70 J	160	110 J	120	45 J	7
Aldrin	UG/KG	9.5 U	10 U	9.2 U	1.9 U	9.6 U	9.6 U	9.9 U	9.5 U	10 U	2 U
Alpha-BHC	UG/KG	9.5 U	10 U	9.2 U	4.4	9.6 U	9.6 U	9.9 U	9.5 U	10 U	2 U
Alpha-Chlordane	UG/KG	9.5 U	10 U	9.2 U	1.5	9.6 U	18 J	9.9 U	27 J	10 U	2 U
Beta-BHC	UG/KG	9.5 U	10 U	9.2 U	1.9 U	9.6 U	9.6 U	9.9 U	9.5 U	10 U	2 U
Delta-BHC	UG/KG	9.5 U	10 U	9.2 U	1.9 U	9.6 U	9.6 U	9.9 U	9.5 U	10 U	2 U

**Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-008-2	WS-59-01-008-3	WS-59-01-011-1	WS-59-01-011-2	WS-59-01-011-3	WS-59-01-011-6	WS-59-01-011-7	WS-59-01-011-8	WS-59-01-011-9	WS-59-01-012-2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-008-2	WS-59-01-008-3	WS-59-01-011-1	WS-59-01-011-2	WS-59-01-011-3	WS-59-01-011-6	WS-59-01-011-7	WS-59-01-011-8	WS-59-01-011-9	WS-59-01-012-2
	Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dieldrin	UG/KG	18 U	19 U	18 U	18 U	3.8 U	19 U	19 U	18 U	20 U	3.8 U
Endosulfan I	UG/KG	9.5 U	10 U	9.2 U	1.9 U	9.6 U	9.6 U	9.9 U	9.5 U	10 U	2 U
Endosulfan II	UG/KG	18 U	19 U	18 U	3.8 U	19 U	19 U	19 U	18 U	20 U	3.8 U
Endosulfan sulfate	UG/KG	18 U	19 U	18 U	3.8 U	19 U	19 U	19 U	18 U	20 U	3.8 U
Endrin	UG/KG	18 U	19 U	18 U	3.8 U	19 U	19 U	19 U	18 U	20 U	3.8 U
Endrin aldehyde	UG/KG	18 U	19 U	18 U	3.8 U	19 U	19 U	19 U	18 U	20 U	3.8 U
Endrin ketone	UG/KG	18 U	19 U	18 U	1.5 J	19 U	19 U	19 U	18 U	20 U	3.8 U
Gamma-BHC/Lindane	UG/KG	9.5 U	10 U	9.2 U	1.9 U	9.6 U	9.6 U	9.9 U	9.5 U	10 U	2 U
Gamma-Chlordane	UG/KG	9.5 U	10 U	9.2 U	7.9	9.6 U	15	9.9 U	21 J	10 U	2 U
Heptachlor	UG/KG	9.5 U	10 U	9.2 U	1.9 U	9.6 U	9.6 U	9.9 U	9.5 U	10 U	2 U
Heptachlor epoxide	UG/KG	9.5 U	10 U	9.2 U	1.9 U	9.6 U	9.6 U	9.9 U	9.5 U	10 U	2 U
Methoxychlor	UG/KG	95 U	99 U	92 U	19 U	96 U	96 U	99 U	95 U	100 U	20 U
Toxaphene	UG/KG	180 U	190 U	920 U	190 U	190 U	190 U	190 U	200 U	200 U	200 U
Aroclor-1016	UG/KG	37 U	39 U	36 U	38 U	37 U	37 U	38 U	37 U	39 U	38 U
Aroclor-1221	UG/KG	37 U	39 U	36 U	38 U	37 U	37 U	38 U	37 U	39 U	38 U
Aroclor-1232	UG/KG	37 U	39 U	36 U	38 U	37 U	37 U	38 U	37 U	39 U	38 U
Aroclor-1242	UG/KG	37 U	39 U	36 U	38 U	37 U	37 U	38 U	37 U	39 U	38 U
Aroclor-1248	UG/KG	37 U	39 U	36 U	38 U	37 U	37 U	38 U	37 U	39 U	38 U
Aroclor-1254	UG/KG	37 U	39 U	36 U	38 U	37 U	37 U	38 U	37 U	39 U	38 U
Aroclor-1260	UG/KG	37 U	39 U	36 U	38 U	37 U	37 U	38 U	37 U	39 U	38 U
Metals											
Aluminum	MG/KG	11100	10500	12300 J	12600 J	9220	9890	7260	10300	11200	10800 J
Antimony	MG/KG	3.2 UJ	3.5 UJ	1.9 J	1.3 J	15.6 J	3.2 UJ	3.5 UJ	3.4 UJ	3.5 UJ	1.7 J
Arsenic	MG/KG	4.9	4.1	5.4 J	5.8 J	3.6 J	4.7 J	3.9 J	4 J	4.7 J	5 J
Barium	MG/KG	82.6	115	84.7 J	104 J	97.6	75.5	53.6	80.1	114	71.2 J
Beryllium	MG/KG	0.34 J	0.14 J	0.61	0.63	0.22	0.34	0.24	0.38	0.41	0.57
Cadmium	MG/KG	0.62	0.41 J	0.46	0.46	0.35 J	0.33 J	0.29 J	0.37 J	0.6	0.48
Calcium	MG/KG	49700 J	68800 J	52200 J	32900 J	46100	51600	44700	61900	34400	86700 J
Chromium	MG/KG	20.5	16.7	19.9 J	19 J	15.4 J	17.4 J	15.3 J	18.4 J	19.4 J	18.6 J
Cobalt	MG/KG	10.3	8.4	10.1 J	8.5 J	8.5	10.6	7.7	11.2	12.6	10.1 J
Copper	MG/KG	27.2	25	25.6 J	26.4 J	25.3 J	26.8 J	18.4 J	44.7 J	26.8 J	27.5 J
Iron	MG/KG	26500	18800 J	23100	21700	17000	20300	16300	19900	23200	22700 J
Lead	MG/KG	34.8 J	28.1 J	33.4 J	34.2 J	41.5 J	34.2 J	40.9 J	49.4 J	32.9 J	32.9 J
Magnesium	MG/KG	11300 J	26600 J	7240 J	6890 J	10800	9720	8370	8540	7680	8010 J
Manganese	MG/KG	466	619	499 J	446 J	452	456	361	475	1080	489 J
Mercury	MG/KG	0.04	0.05	0.04	0.07	0.08	0.05	0.06	0.06	0.07	0.05
Nickel	MG/KG	32	24.6	31 J	26.1 J	23.8 J	29.4 J	22.5 J	33.5 J	36.1 J	32.8 J
Potassium	MG/KG	1290	1420	1580 J	1360 J	936	1060	751	1100	1150	1340 J
Selenium	MG/KG	0.54 U	0.58 U	0.37 U	0.41 U	1.1 UJ	1.1 UJ	1.2 UJ	1.1 UJ	1.2 UJ	0.43 U
Silver	MG/KG	0.54 U	0.58 U	0.56	0.93	0.55 U	0.56 U	0.55 U	0.52 U	0.56 U	0.11 U
Sodium	MG/KG	134	137	200 J	199 J	240	206	129	115	148	163 J
Thallium	MG/KG	0.61 J	0.74 J	0.19 U	0.21 U	0.67 J	0.56 J	0.58 U	0.64 J	0.93 J	0.22 U
Vanadium	MG/KG	22.5	20.4	22 J	21.8 J	16.1	17.7	13.4	18.4	20.3	18 J
Zinc	MG/KG	84.5 J	75 J	73.7 J	78.4 J	96 J	80.4 J	57 J	89.3 J	80.9 J	69.3 J

**Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	WS-59-01-008-2	WS-59-01-008-3	WS-59-01-011-1	WS-59-01-011-2	WS-59-01-011-5	WS-59-01-011-6	WS-59-01-011-7	WS-59-01-011-8	WS-59-01-011-9	WS-59-01-012-2
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	WS-59-01-008-2	WS-59-01-008-3	WS-59-01-011-1	WS-59-01-011-2	WS-59-01-011-5	WS-59-01-011-6	WS-59-01-011-7	WS-59-01-011-8	WS-59-01-011-9	WS-59-01-012-2
Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
	I	I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)

Note(s)

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
 - (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample/Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.
- U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected, the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-012-3	WS-59-01-013-2	WS-59-01-014-5	WS-59-01-015-14	WS-59-01-015-15	WS-59-01-015-16	WS-59-01-015-17	WS-59-01-015-20	WS-59-01-015-3	WS-59-01-015-4
	Maxtrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-012-3	WS-59-01-013-2	WS-59-01-014-5	WS-59-01-015-14	WS-59-01-015-15	WS-59-01-015-16	WS-59-01-015-17	WS-59-01-015-20	WS-59-01-015-3	WS-59-01-015-4
	Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics											
1,1,1-Trichloromethane	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
1,1,2,2-Tetrachloroethane	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
1,1,2-Trichloroethane	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
1,1-Dichloromethane	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
1,1-Dichloroethane	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
1,2,3-Trichloropropane	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
1,2,4-Trichlorobenzene	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
1,2-Dibromo-3-chloropropane	UG/KG			5 U							
1,2-Dibromoethane	UG/KG			5 U							
1,2-Dichlorobenzene	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
1,2-Dichloromethane	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
1,2-Dichloropropane	UG/KG			5 U							
1,3-Dichlorobenzene	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
1,3-Dichloropropane	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
1,4-Dichlorobenzene	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
Acetone	UG/KG	22 U	23 U	11 NJ	24 U	23 U	23 U	23 U	23 U	25 U	24 U
Benzene	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
Bromodichloromethane	UG/KG			5 U							
Bromoform	UG/KG			5 U							
Carbon disulfide	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
Carbon tetrachloride	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
Chlorobenzene	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
Chlorodibromomethane	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
Chloroethane	UG/KG	11 U	11 U	5 U	12 U	12 U	11 U	11 U	11 U	12 U	12 U
Chloroform	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
Cis-1,2-Dichloroethene	UG/KG			5 U							
Cis-1,3-Dichloropropene	UG/KG			5 U							
Cyclohexane	UG/KG			5 U							
Dichlorodifluoromethane	UG/KG			5 U							
Ethyl benzene	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
Isopropylbenzene	UG/KG			5 U							
Meta/Para Xylene	UG/KG	5.6 U	5.7 U		6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
Methyl Acetate	UG/KG			5 U							
Methyl Tertbutyl Ether	UG/KG			5 U							
Methyl bromide	UG/KG			5 U							
Methyl butyl ketone	UG/KG			5 U							
Methyl chloride	UG/KG			5 U							

Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	WS-59-01-012-3	WS-59-01-013-2	WS-59-01-014-5	WS-59-01-015-14	WS-59-01-015-15	WS-59-01-015-16	WS-59-01-015-17	WS-59-01-015-20	WS-59-01-015-3	WS-59-01-015-4	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	WS-59-01-012-3	WS-59-01-013-2	WS-59-01-014-5	WS-59-01-015-14	WS-59-01-015-15	WS-59-01-015-16	WS-59-01-015-17	WS-59-01-015-20	WS-59-01-015-3	WS-59-01-015-4	
Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
	1	1	1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl cyclohexane	UG/KG			5 U							
Methyl ethyl ketone	UG/KG	11 U	11 U	5 U	12 U	12 U	11 U	11 U	11 U	12 U	12 U
Methyl isobutyl ketone	UG/KG	11 U	11 U	5 U	12 U	12 U	11 U	11 U	11 U	12 U	12 U
Methylene chloride	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
Ortho Xylene	UG/KG	5.6 U	5.7 U		6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
Styrene	UG/KG			5 U							
Tetrachloroethene	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
Toluene	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
Total Xylenes	UG/KG			5 U							
Trans-1,2-Dichloroethene	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
Trans-1,3-Dichloropropene	UG/KG			5 U							
Trichloroethene	UG/KG	5.6 U	5.7 U	5 U	6 U	5.8 U	5.7 U	5.7 U	5.7 U	6.1 U	5.9 U
Trichlorofluoromethane	UG/KG			5 U							
Vinyl chloride	UG/KG	11 U	11 U	5 U	12 U	12 U	11 U	11 U	11 U	12 U	12 U
Semivolatile Organics											
1,1'-Biphenyl	UG/KG			370 U							
2,2'-oxybis(1-Chloropropane)	UG/KG			370 U							
2,4,5-Trichlorophenol	UG/KG	1800 U	1900 U	930 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
2,4,6-Trichlorophenol	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
2,4-Dichlorophenol	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
2,4-Dimethylphenol	UG/KG			370 U							
2,4-Dinitrophenol	UG/KG	9500 U	9600 U	930 U	10000 U	9900 U	9700 U	9800 U	9600 U	2100 U	10000 U
2,4-Dinitrotoluene	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
2,6-Dinitrotoluene	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
2-Chloronaphthalene	UG/KG			370 U							
2-Chlorophenol	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
2-Methylnaphthalene	UG/KG	710 J	200 J	39 J	2000 U	1900 U	440 J	1900 U	210 J	140 J	1900 U
2-Methylphenol	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
2-Nitroaniline	UG/KG	9500 U	9600 U	930 U	10000 U	9900 U	9700 U	9800 U	9600 U	2100 U	10000 U
2-Nitrophenol	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
3,3'-Dichlorobenzidine	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
3-Nitroaniline	UG/KG	9500 U	9600 U	930 U	10000 U	9900 U	9700 U	9800 U	9600 U	2100 U	10000 U
4,6-Dinitro-2-methylphenol	UG/KG			930 U							
4-Bromophenyl phenyl ether	UG/KG			370 U							
4-Chloro-3-methylphenol	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
4-Chloroaniline	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
4-Chlorophenyl phenyl ether	UG/KG			370 U							
4-Methylphenol	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
4-Nitroaniline	UG/KG			930 U							
4-Nitrophenol	UG/KG	9500 U	9600 U	930 U	10000 U	9900 U	9700 U	9800 U	9600 U	2100 U	10000 U
Acenaphthene	UG/KG	850 J	480 J	370 U	340 J	380 J	450 J	520 J	46 J	46 J	1900 U
Acenaphthylene	UG/KG	3000	1000 J	97 J	1500 J	1400 J	1300 J	1800 J	2000	130 J	1400 J
Acetophenone	UG/KG			370 U							
Aniline	UG/KG	1800 U	1900 U		2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
Anthracene	UG/KG	3400	1700 J	110 J	1600 J	1600 J	1500 J	2000	2300	120 J	990 J
Atrazine	UG/KG			370 U							

Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Parameter	Units	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
		Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzaldehyde	UG/KG			370 U							
Benz(a)anthracene	UG/KG	10000	4600	370 NJ	4200	4000	3400	5400	5600	460	4200
Benz(a)pyrene	UG/KG	16000	5100	430	4800	4300	4000	5400	5900	550	6200
Benzo(b)fluoranthene	UG/KG	11000	3900	550	3600	3200	2700	3600	4500	410	4700
Benz(ghi)perylene	UG/KG	7600	3400	280 J	2900	2500	2400	2800	2700	400 J	4200
Benz(k)fluoranthene	UG/KG	13000	4000	200 J	3800	3300	3000	4300	4900	420	4700
Benzoic Acid	UG/KG	9500 UJ	9600 UJ		10000 UJ	9900 UJ	9700 U	9800 U	9600 U	2100 UJ	10000 U
Bis(2-Chloroethoxy)methane	UG/KG			370 U							
Bis(2-Chloroethyl)ether	UG/KG			370 U							
Bis(2-Ethylhexyl)phthalate	UG/KG	1800 U	1900 U	110 J	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
Butylbenzylphthalate	UG/KG	1800 U	1900 UJ	370 U	2000 U	1900 U	1900 UJ	1900 UJ	1900 UJ	410 UJ	1900 U
Caprolactam	UG/KG			370 U							
Carbazole	UG/KG			42 J							
Chrysene	UG/KG	11000	4700	420	4300	3900	3400	5300	5400	480	4300 NJ
Di-n-butylphthalate	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
Di-n-octylphthalate	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
Dibenz(a,h)anthracene	UG/KG	2900 J	1100 J	73 J	880 J	780 J	770 J	890 J	1000 J	120 J	1300 J
Dibenzofuran	UG/KG	650 J	310 J	370 U	240 J	240 J	310 J	320 J	330 J	410 U	1900 U
Diethyl phthalate	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
Dimethylphthalate	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
Fluoranthene	UG/KG	20000	7800	660	7700	7000	5700	10000	11000	680	5000
Fluorene	UG/KG	1300 J	690 J	370 U	490 J	570 J	690 J	740 J	800 J	51 NJ	1900 U
Hexachlorobenzene	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
Hexachlorobutadiene	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
Hexachlorocyclopentadiene	UG/KG			370 U							
Hexachloroethane	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
Indeno(1,2,3-cd)pyrene	UG/KG	7800 J	3200 J	290 J	2600 J	2300 J	2200 J	2600 J	2700 J	360 J	3800 J
Isophorone	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
N-Nitrosodiphenylamine	UG/KG			370 U							
N-Nitrosodipropylamine	UG/KG			370 U							
Naphthalene	UG/KG	840 J	290 J	46 J	2000 U	1900 U	520 J	220 NJ	280 NJ	54 J	1900 U
Nitrobenzene	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
Pentachlorophenol	UG/KG	9500 U	9600 U	660 J	10000 U	9900 U	9700 U	9800 U	9600 U	2100 U	10000 U
Phenanthrene	UG/KG	8100	4500	250 J	4800	4400	4200	5100	5600	280 J	1400 J
Phenol	UG/KG	1800 U	1900 U	370 U	2000 U	1900 U	1900 U	1900 U	1900 U	410 U	1900 U
Pyrene	UG/KG	22000	7800	650	8200	7400	6600 J	10000 J	9400 J	730	5200
Pyridine	UG/KG	9500 U	9600 U		10000 U	9900 U	9700 U	9800 U	9600 U	2100 U	10000 U
Pesticides/PCBs											
4,4'-DDD	UG/KG	51 J	34 J	24	450	36	21 J	76	19 U	20 U	19 U
4,4'-DDE	UG/KG	160	43	49	86 J	31 J	19 U	61 J	19 U	20 U	19 U
4,4'-DDT	UG/KG	92 J	33 J	45	520	55	22 J	60 J	19 U	20 U	19 U
Aldrin	UG/KG	9.5 U	9.6 U	1.9 U	10 U	9.9 U	9.7 U	9.8 U	9.6 U	10 U	10 U
Alpha-BHC	UG/KG	9.5 U	9.6 U	1.9 U	10 U	9.9 U	9.7 U	9.8 U	9.6 U	10 U	10 U
Alpha-Chlordane	UG/KG	9.5 U	9.6 U	3.4	10 U	9.9 U	9.7 U	9.8 U	9.6 U	10 U	10 U
Beta-BHC	UG/KG	9.5 U	9.6 U	13 NJ	10 U	9.9 U	9.7 U	9.8 U	9.6 U	10 U	10 U
Delta-BHC	UG/KG	9.5 U	9.6 U	1.9 U	10 U	9.9 U	9.7 U	9.8 U	9.6 U	10 U	10 U

Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-012-3	WS-59-01-013-2	WS-59-01-014-5	WS-59-01-015-14	WS-59-01-015-15	WS-59-01-015-16	WS-59-01-015-17	WS-59-01-015-20	WS-59-01-015-3	WS-59-01-015-4
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-012-3	WS-59-01-013-2	WS-59-01-014-5	WS-59-01-015-14	WS-59-01-015-15	WS-59-01-015-16	WS-59-01-015-17	WS-59-01-015-20	WS-59-01-015-3	WS-59-01-015-4
	Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dieldrin	UG/KG	18 U	19 U	3.7 U	20 U	19 U	19 U	19 U	19 U	20 U	19 U
Endosulfan I	UG/KG	9.5 U	9.6 U	1.9 U	10 U	9.9 U	9.7 U	9.8 U	9.6 U	10 U	10 U
Endosulfan II	UG/KG	18 U	19 U	3.7 U	20 U	19 U	19 U	19 U	19 U	20 U	19 U
Endosulfan sulfate	UG/KG	18 U	19 U	3.7 U	20 U	19 U	19 U	19 U	19 U	20 U	19 U
Endrin	UG/KG	18 U	19 U	3.7 U	20 U	19 U	19 U	19 U	19 U	20 U	19 U
Endrin aldehyde	UG/KG	18 U	19 U	3.7 U	20 U	19 U	19 U	19 U	19 U	20 U	19 U
Endrin ketone	UG/KG	18 U	19 U	3.7 U	20 U	19 U	19 U	19 U	19 U	20 U	19 U
Gamma-BHC Lindane	UG/KG	9.5 U	9.6 U	1.9 U	10 U	9.9 U	9.7 U	9.8 U	9.6 U	10 U	10 U
Gamma-Chlordane	UG/KG	9.5 U	9.6 U	1.9 U	10 U	9.9 U	9.7 U	9.8 U	9.6 U	10 U	10 U
Heptachlor	UG/KG	9.5 U	9.6 U	1.9 U	10 U	9.9 U	9.7 U	9.8 U	9.6 U	10 U	10 U
Heptachlor epoxide	UG/KG	9.5 U	9.6 U	1.9 U	10 U	9.9 U	9.7 U	9.8 U	9.6 U	10 U	10 U
Methoxychlor	UG/KG	95 U	96 U	19 U	100 U	99 U	97 U	98 U	96 U	100 U	100 U
Toxaphene	UG/KG	180 U	190 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	190 U
Aroclor-1016	UG/KG	37 U	37 U	37 U	39 U	38 U	38 U	38 U	37 U	41 U	39 U
Aroclor-1221	UG/KG	37 U	37 U	37 U	39 U	38 U	38 U	38 U	37 U	41 U	39 U
Aroclor-1232	UG/KG	37 U	37 U	37 U	39 U	38 U	38 U	38 U	37 U	41 U	39 U
Aroclor-1242	UG/KG	37 U	37 U	37 U	39 U	38 U	38 U	38 U	37 U	41 U	39 U
Aroclor-1248	UG/KG	37 U	37 U	37 U	39 U	38 U	38 U	38 U	37 U	41 U	39 U
Aroclor-1254	UG/KG	37 U	37 U	37 U	39 U	38 U	38 U	38 U	37 U	41 U	39 U
Aroclor-1260	UG/KG	37 U	37 U	37 U	39 U	38 U	38 U	38 U	37 U	41 U	39 U
Metals											
Aluminum	MG/KG	10200	12000	10700 J	11400	10100	12100	11000	12400	11400	10600
Antimony	MG/KG	3.2 UJ	3.3 U	1.7 J	43.9 J	3.7 J	12	3.4 U	3.4 U	3.6 UJ	3.4 UJ
Arsenic	MG/KG	4.9 J	5	7.3 J	4.5 J	4.1 J	4.5	5.1	4.8	4.8	4.8
Barium	MG/KG	77.9	97.6	101 J	135	93.3	91.6	133	104	107	84.7
Beryllium	MG/KG	0.42	0.38	0.58	0.32	0.32	0.4	0.3	0.41	0.27	0.13
Cadmium	MG/KG	0.6	0.52 J	0.54	0.89	0.36 J	0.55 J	0.57 J	0.51 J	0.64	0.73
Calcium	MG/KG	46300	42900	41300 J	38300	69600	76800	96100	66700	17600	29600
Chromium	MG/KG	17.6 J	22	18.2 J	19.9 J	15.5 J	27.7	18.1	21.5	18.6	18.2
Cobalt	MG/KG	12.6	11.1	10.1 J	10.1	8.8	11.1	9.8	12.1	10.4	10.3
Copper	MG/KG	30 J	29.5	25 J	24.6 J	22.6 J	36.2	32.3	37.4	24.3	24.9
Iron	MG/KG	20800	23200	24500 J	20800	18600	22700	19800	23700	23200	21900
Lead	MG/KG	42.4 J	44.1 J	33.4 J	19.5 J	31.2 J	149 J	61.6 J	65.4 J	20.5 J	27.8 J
Magnesium	MG/KG	7890	9440	7060 J	7250	6890	7820	15600	8980	4890	7020
Manganese	MG/KG	534	528	632 J	471	646	591	536	557	734	467
Mercury	MG/KG	0.08	0.05	0.07 J	0.06	0.06	0.04	0.05	0.07	0.05	0.08
Nickel	MG/KG	33.4 J	34.2	29.1 J	27.5 J	23.3 J	31.6	26.5	34.3	27.7	29.8
Potassium	MG/KG	1160	1320	1100 J	1070	949	1260	1200	1290	1200	1140
Selenium	MG/KG	1.1 UJ	0.72 J	0.43 U	1.2 UJ	1.1 UJ	0.55 U	0.57 U	0.57 U	0.61 UJ	0.56 UJ
Silver	MG/KG	0.56 U	0.55 U	0.74	0.57 U	0.55 U	0.55 U	0.57 U	0.57 U	0.61 UJ	0.56 UJ
Sodium	MG/KG	103	191	294 J	92.4	106	110	131	125	252	221
Thallium	MG/KG	0.68 J	0.76 J	0.22 U	0.88 J	0.98 J	0.99 J	0.95 J	0.85 J	0.94 J	0.65 J
Vanadium	MG/KG	18	22.3	19 J	19.3	17.3	20.3	21.3	22.9	18.7	18.7
Zinc	MG/KG	106 J	98.4 J	78.1 J	127 J	82.7 J	97.4 J	81.9 J	99.6 J	77.6 J	80.5 J

**Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	WS-59-01-012-3	WS-59-01-013-2	WS-59-01-014-5	WS-59-01-015-14	WS-59-01-015-15	WS-59-01-015-16	WS-59-01-015-17	WS-59-01-015-20	WS-59-01-015-3	WS-59-01-015-4	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	WS-59-01-012-3	WS-59-01-013-2	WS-59-01-014-5	WS-59-01-015-14	WS-59-01-015-15	WS-59-01-015-16	WS-59-01-015-17	WS-59-01-015-20	WS-59-01-015-3	WS-59-01-015-4	
Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)

Notes:
(1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
(2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate
R = the data was rejected in the data validating process
NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-015-8	WS-59-01-016-1	WS-59-01-016-10	WS-59-01-016-13	WS-59-01-016-14	WS-59-01-016-18	WS-59-01-016-19	WS-59-01-016-2	WS-59-01-016-20	WS-59-01-016-3
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-015-8	WS-59-01-016-1	WS-59-01-016-10	WS-59-01-016-13	WS-59-01-016-14	WS-59-01-016-18	WS-59-01-016-19	WS-59-01-016-2	WS-59-01-016-20	WS-59-01-016-3
	Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics											
1,1,1-Trichloroethane	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
1,1,2,2-Tetrachloroethane	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5.8 U	5.7 U	5.8 U	1.5 J	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
1,1,2-Trichloroethane	UG/KG										
1,1-Dichloroethane	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
1,1-Dichloroethene	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
1,2,3-Trichloropropane	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
1,2,4-Trichlorobenzene	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
1,2-Dibromo-3-chloropropane	UG/KG										
1,2-Dibromoethane	UG/KG										
1,2-Dichlorobenzene	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
1,2-Dichloroethane	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
1,2-Dichloropropane	UG/KG										
1,3-Dichlorobenzene	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
1,3-Dichloropropane	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
1,4-Dichlorobenzene	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
Acetone	UG/KG	23 U	23 U	20 J	23 U	23 U	24 U	23 U	24 U	23 U	23 U
Benzene	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
Bromodichloromethane	UG/KG										
Bromoform	UG/KG										
Carbon disulfide	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
Carbon tetrachloride	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
Chlorobenzene	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
Chlorodibromomethane	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
Chloroethane	UG/KG	12 U	11 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Chloroform	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
Cis-1,2-Dichloroethene	UG/KG										
Cis-1,3-Dichloropropene	UG/KG										
Cyclohexane	UG/KG										
Dichlorodifluoromethane	UG/KG										
Ethyl benzene	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
Isopropylbenzene	UG/KG										
Meta/Para Xylene	UG/KG	5.8 U	5.7 U	2.2 J	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
Methyl Acetate	UG/KG										
Methyl Tertbutyl Ether	UG/KG										
Methyl bromide	UG/KG										
Methyl butyl ketone	UG/KG										
Methyl chloride	UG/KG										

**Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-015-8	WS-59-01-016-1	WS-59-01-016-10	WS-59-01-016-13	WS-59-01-016-14	WS-59-01-016-18	WS-59-01-016-19	WS-59-01-016-2	WS-59-01-016-20	WS-59-01-016-3
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-015-8	WS-59-01-016-1	WS-59-01-016-10	WS-59-01-016-13	WS-59-01-016-14	WS-59-01-016-18	WS-59-01-016-19	WS-59-01-016-2	WS-59-01-016-20	WS-59-01-016-3
	Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl cyclohexane	UG/KG										
Methyl ethyl ketone	UG/KG	12 U	11 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Methyl isobutyl ketone	UG/KG	12 U	11 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Methylene chloride	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
Ortho Xylene	UG/KG	5.8 U	5.7 U	1.9 J	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
Styrene	UG/KG										
Tetrachloroethene	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.4 J	5.3 J	6 U	6.7	5.8 U
Toluene	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
Total Xylenes	UG/KG										
Trans-1,2-Dichloroethene	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
Trans-1,3-Dichloropropene	UG/KG										
Trichloroethene	UG/KG	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.9 U	5.8 U	6 U	5.8 U	5.8 U
Trichlorofluoromethane	UG/KG										
Vinyl chloride	UG/KG	12 U	11 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Semivolatile Organics											
1,1'-Biphenyl	UG/KG										
2,2'-oxybis(1-Chloropropane)	UG/KG										
2,4,5-Trichlorophenol	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
2,4,6-Trichlorophenol	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
2,4-Dichlorophenol	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
2,4-Dimethylphenol	UG/KG										
2,4-Dinitrophenol	UG/KG	9900 U	9800 U	9900 U	5900 U	5900 U	10000 U	9800 U	6100 U	9800 U	5900 U
2,4-Dinitrotoluene	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
2,6-Dinitrotoluene	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
2-Chloronaphthalene	UG/KG										
2-Chlorophenol	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
2-Methylnaphthalene	UG/KG	1900 U	230 J	1900 U	270 J	270 J	1900 U	1900 U	150 J	1900 U	1200 U
2-Methylphenol	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
2-Nitroaniline	UG/KG	9900 U	9800 U	9900 U	5900 U	5900 U	10000 U	9800 U	6100 U	9800 U	5900 U
2-Nitrophenol	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
3,3'-Dichlorobenzidine	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
3-Nitroaniline	UG/KG	9900 U	9800 U	9900 U	5900 U	5900 U	10000 U	9800 U	6100 U	9800 U	5900 U
4,6-Dinitro-2-methylphenol	UG/KG										
4-Bromophenyl phenyl ether	UG/KG										
4-Chloro-3-methylphenol	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
4-Chloroaniline	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
4-Chlorophenyl phenyl ether	UG/KG										
4-Methylphenol	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
4-Nitroaniline	UG/KG										
4-Nitrophenol	UG/KG	9900 U	9800 U	9900 U	5900 U	5900 U	10000 U	9800 U	6100 U	9800 U	5900 U
Aconaphthene	UG/KG	1900 U	1100 J	500 J	490 J	580 J	1900 U	210 J	360 J	270 J	210 J
Acenaphthylene	UG/KG	1200 J	1600 J	1200 J	1200	1800	200 J	310 J	1600	3400	800 J
Acetophenone	UG/KG										
Aniline	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
Anthracene	UG/KG	910 J	5200	1800 J	1600	3900	280 J	540 J	1500	2200	830 J
Atrazine	UG/KG										

**Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision**

Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-015-8	WS-59-01-016-1	WS-59-01-016-10	WS-59-01-016-13	WS-59-01-016-14	WS-59-01-016-18	WS-59-01-016-19	WS-59-01-016-2	WS-59-01-016-20	WS-59-01-016-3
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-015-8	WS-59-01-016-1	WS-59-01-016-10	WS-59-01-016-13	WS-59-01-016-14	WS-59-01-016-18	WS-59-01-016-19	WS-59-01-016-2	WS-59-01-016-20	WS-59-01-016-3
	Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzaldehyde	UG/KG										
Benz(a)anthracene	UG/KG	3700	8200	3800	3600	8400	860 J	1100 J	3800	6800	2700
Benz(a)pyrene	UG/KG	4200	7600	3600	3700	7300	950 J	1200 J	4600	8500	2900
Benz(b)fluoranthene	UG/KG	3200	6400	2500	2800	5300	750 J	1000 J	3400	6400	2300
Benz(ghi)perylene	UG/KG	2600	3400	2100	2200	3700	670 J	770 J	2100	5200	1400
Benz(k)fluoranthene	UG/KG	3400	6700	2800	3100	5800	790 J	910 J	3800	6500	2500
Benzene Acid	UG/KG	9900 U	9800 U	9900 U	5900 U	5900 U	10000 U	9800 U	6100 U	9800 U	5900 U
Bis(2-Chloroethoxy)methane	UG/KG										
Bis(2-Chloroethyl)ether	UG/KG										
Bis(2-Ethylhexyl)phthalate	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
Butylbenzylphthalate	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
Caprolactam	UG/KG										
Carbazole	UG/KG										
Chrysene	UG/KG	3600 NJ	9000	3700	3500	7900	940 J	1200 J	3900	7500	2700
Di-n-butylphthalate	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
Di-n-octylphthalate	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
Dibenz(a,h)anthracene	UG/KG	840 J	1200 J	730 J	660 J	1300 J	210 J	250 J	760 J	1800 J	510 J
Dibenzofuran	UG/KG	1900 U	700 J	320 J	320 J	480 J	1900 U	1900 U	210 J	1900 U	1200 U
Diethyl phthalate	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
Dimethylphthalate	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
Fluoranthene	UG/KG	6100	18000	7600	7300	18000	1800 J	2300	7300	12000	5400
Fluorene	UG/KG	250 NJ	1300 J	780 J	700 J	1300	1900 U	260 J	520 J	310 J	200 J
Hexachlorobenzene	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
Hexachlorobutadiene	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
Hexachlorocyclopentadiene	UG/KG										
Hexachloroethane	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
Indeno(1,2,3-cd)pyrene	UG/KG	2400 J	3400 J	2000 J	2100 J	3700 J	560 J	740 J	2100 J	5000 J	1400 J
Isophorone	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
N-Nitrosodiphenylamine	UG/KG										
N-Nitrosodipropylamine	UG/KG										
Naphthalene	UG/KG	1900 U	210 J	250 J	340 J	240 J	1900 U	1900 U	140 J	1900 U	1200 U
Nitrobenzene	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
Pentachlorophenol	UG/KG	9900 U	9800 U	9900 U	5900 U	5900 U	10000 U	9800 U	6100 U	9800 U	5900 U
Phenanthrene	UG/KG	1900 J	6100	4300	4300	11000	840 J	1600 J	3100	3300	2200
Phenol	UG/KG	1900 U	1900 U	1900 U	1100 U	1200 U	1900 U	1900 U	1200 U	1900 U	1200 U
Pyrene	UG/KG	6000	15000 J	6800	6000	14000	1300 J	1700 J	6300 J	9700	4300 J
Pyridine	UG/KG	9900 U	9800 U	9900 U	5900 U	5900 U	10000 U	9800 U	6100 U	9800 U	5900 U
Pesticides/PCBs											
4,4'-DDD	UG/KG	19 U	95 U	96 U	96 U	96 U	97 U	95 U	98 U	95 U	96 U
4,4'-DDE	UG/KG	19 U	95 U	96 U	96 U	96 U	97 U	95 U	98 U	95 U	96 U
4,4'-DDT	UG/KG	27 J	95 U	96 U	96 U	96 U	97 U	95 U	98 U	95 U	96 U
Aldrin	UG/KG	99 U	49 U	50 U	49 U	50 U	50 U	49 U	51 U	49 U	49 U
Alpha-BHC	UG/KG	99 U	49 U	50 U	49 U	50 U	50 U	49 U	51 U	49 U	49 U
Alpha-Chlordane	UG/KG	99 U	49 U	50 U	49 U	50 U	50 U	49 U	51 U	49 U	49 U
Beta-BHC	UG/KG	99 U	49 U	50 U	49 U	50 U	50 U	49 U	51 U	49 U	49 U
Delta-BHC	UG/KG	99 U	49 U	50 U	49 U	50 U	50 U	49 U	51 U	49 U	49 U

Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-015-8	WS-59-01-016-1	WS-59-01-016-10	WS-59-01-016-13	WS-59-01-016-14	WS-59-01-016-18	WS-59-01-016-19	WS-59-01-016-2	WS-59-01-016-20	WS-59-01-016-3
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-015-8	WS-59-01-016-1	WS-59-01-016-10	WS-59-01-016-13	WS-59-01-016-14	WS-59-01-016-18	WS-59-01-016-19	WS-59-01-016-2	WS-59-01-016-20	WS-59-01-016-3
	Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dieldrin	UG/KG	19 U	95 U	96 U	96 U	96 U	97 U	95 U	98 U	95 U	96 U
Endosulfan I	UG/KG	9.9 U	49 U	50 U	49 U	50 U	50 U	49 U	51 U	49 U	49 U
Endosulfan II	UG/KG	19 U	95 U	96 U	96 U	96 U	97 U	95 U	98 U	95 U	96 U
Endosulfan sulfate	UG/KG	19 U	95 U	96 U	96 U	96 U	97 U	95 U	98 U	95 U	96 U
Endrin	UG/KG	19 U	95 U	96 U	96 U	96 U	97 U	95 U	98 U	95 U	96 U
Endrin aldehyde	UG/KG	19 U	95 U	96 U	96 U	96 U	97 U	95 U	98 U	95 U	96 U
Endrin ketone	UG/KG	19 U	95 U	96 U	96 U	96 U	97 U	95 U	98 U	95 U	96 U
Gamma-BHC/Lindane	UG/KG	9.9 U	49 U	50 U	49 U	50 U	50 U	49 U	51 U	49 U	49 U
Gamma-Chlordane	UG/KG	9.9 U	49 U	50 U	49 U	50 U	50 U	49 U	51 U	49 U	49 U
Heptachlor	UG/KG	9.9 U	49 U	50 U	49 U	50 U	50 U	49 U	51 U	49 U	49 U
Heptachlor epoxide	UG/KG	9.9 U	49 U	50 U	49 U	50 U	50 U	49 U	51 U	49 U	49 U
Methoxychlor	UG/KG	99 U	490 U	500 U	490 U	500 U	500 U	490 U	510 U	490 U	490 U
Toxaphene	UG/KG	190 U	950 U	960 U	960 U	960 U	970 U	950 U	980 U	950 U	950 U
Aroclor-1016	UG/KG	38 U	38 U	39 U	38 U	38 U	39 U	38 U	39 U	38 U	38 U
Aroclor-1221	UG/KG	38 U	38 U	39 U	38 U	38 U	39 U	38 U	39 U	38 U	38 U
Aroclor-1232	UG/KG	38 U	38 U	39 U	38 U	38 U	39 U	38 U	39 U	38 U	38 U
Aroclor-1242	UG/KG	38 U	38 U	39 U	38 U	38 U	39 U	38 U	39 U	38 U	38 U
Aroclor-1248	UG/KG	38 U	38 U	39 U	38 U	38 U	39 U	38 U	39 U	38 U	38 U
Aroclor-1254	UG/KG	38 U	38 U	39 U	38 U	38 U	39 U	38 U	39 U	38 U	38 U
Aroclor-1260	UG/KG	38 U	38 U	39 U	38 U	38 U	39 U	38 U	39 U	38 U	38 U
Metals											
Aluminum	MG/KG	11100	10100	10500	11200	11200	10800	10800	11600	9200	10600
Antimony	MG/KG	3.3 UJ	3.3 UJ	5.9 J	3.4 UJ	3.5 UJ	3.5 UJ	3.4 UJ	3.5 UJ	3.4 UJ	3.5 UJ
Arsenic	MG/KG	4.7	4.2	4	4.1	4.6	4.6	4.3	5.2	3.9	4.9
Barium	MG/KG	99.9	76.1	93.1	90.3	78.9	85	92.4	90.3	74	86.4
Beryllium	MG/KG	0.34	0.36	0.33	0.4	0.3	0.3	0.38	0.41	0.25	0.38
Cadmium	MG/KG	0.72	0.73	0.72	0.72	0.78	0.97	0.73	0.7	0.66	0.69
Calcium	MG/KG	40500	59200	42500	58200	46000	42800	41200	45700	100000	66200
Chromium	MG/KG	19.7	17.3	16.9	19.3	29.7	35	19.3	19.4	16.4	17.2
Cobalt	MG/KG	10	9.2	9.2	9.9	9.6	9.2	9.3	12.3	7.6	9.2
Copper	MG/KG	26.1	26.3 J	37.7 J	44.1 J	25.6 J	51.8 J	36.4 J	28.8 J	28.7 J	26.5 J
Iron	MG/KG	21100	19800	19400	19300	22400	20200	19800	23000	16300	20300
Lead	MG/KG	39.7 J	41.9 J	1440 J	51.5 J	84.6 J	129 J	41.7 J	45.8 J	44.8 J	31.8 J
Magnesium	MG/KG	7900	9270	8130	8530	7860	9170	8050	7260	7730	9530
Manganese	MG/KG	513	567	489	455	435	459	457	556	391	466
Mercury	MG/KG	0.08	0.08	0.27	0.15	0.04	0.51	0.29	0.1	0.28	0.05
Nickel	MG/KG	28.5	27.3	25.1	30.9	26.4	27.3	28	30.7	22.4	25.6
Potassium	MG/KG	1140	1150	1220	1170	1200	1240	1170	1230	1090	1120
Selenium	MG/KG	0.55 UJ	0.56 U	0.56 U	0.57 U	0.58 U	0.58 U	0.57 U	0.59 U	0.56 U	0.58 U
Silver	MG/KG	0.55 UJ	0.56 U	0.56 U	0.57 U	0.58 U	4.7	1.2 J	0.59 U	0.56 U	0.58 U
Sodium	MG/KG	211	151	330	236	239	151	398	455	178	312
Thallium	MG/KG	0.55 U	0.56 U	0.56 J	0.65 J	0.58 U	0.58 U	0.57 U	0.59 U	0.56 U	0.58 U
Vanadium	MG/KG	19.3	18.2	18.9	19.3	20.1	20.8	20.5	20	19	18.6
Zinc	MG/KG	76.3 J	88.3 J	82.5 J	92.8 J	72.7 J	157 J	93 J	82.2 J	79 J	76.5 J

**Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision**

Seneca Army Depot Activity

	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	WS-59-01-015-8	WS-59-01-016-1	WS-59-01-016-10	WS-59-01-016-13	WS-59-01-016-14	WS-59-01-016-18	WS-59-01-016-19	WS-59-01-016-2	WS-59-01-016-20	WS-59-01-016-3
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	WS-59-01-015-8	WS-59-01-016-1	WS-59-01-016-10	WS-59-01-016-13	WS-59-01-016-14	WS-59-01-016-18	WS-59-01-016-19	WS-59-01-016-2	WS-59-01-016-20	WS-59-01-016-3
Sample Depth to Top of Sample	0	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample	0	0	0	0	0	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
	I	I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)

Note(s)
(1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)

(2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis

U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected, the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-016-4	WS-59-01-016-5	WS-59-01-016-6	WS-59-01-016-9	WS-59-04-010-8
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-016-4	WS-59-01-016-5	WS-59-01-016-6	WS-59-01-016-9	WS-59-04-010-8
	Sample Depth to Top of Sample	0	0	0	0	0
	Sample Depth to Bottom of Sample	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics						
1,1,1-Trichloroethane	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
1,1,2,2-Tetrachloroethane	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
1,1,2-Trichloroethane	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
1,1-Dichloroethane	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
1,1-Dichloroethene	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
1,2,3-Trichloropropane	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
1,2,4-Trichlorobenzene	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
1,2-Dibromo-3-chloropropane	UG/KG					5 U
1,2-Dibromoethane	UG/KG					5 U
1,2-Dichlorobenzene	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
1,2-Dichloroethane	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
1,2-Dichloropropane	UG/KG					5 U
1,3-Dichlorobenzene	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
1,3-Dichloropropane	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
1,4-Dichlorobenzene	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
Acetone	UG/KG	23 U	34	23 U	14 J	5 U
Benzene	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
Bromodichloromethane	UG/KG					5 U
Bromoform	UG/KG					5 U
Carbon disulfide	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
Carbon tetrachloride	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
Chlorobenzene	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
Chlorodibromomethane	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
Chloroethane	UG/KG	12 U	12 U	11 U	11 U	5 U
Chloroform	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
Cis-1,2-Dichloroethene	UG/KG					5 U
Cis-1,3-Dichloropropene	UG/KG					5 U
Cyclohexane	UG/KG					5 U
Dichlorodifluoromethane	UG/KG					5 U
Ethyl benzene	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
Isopropylbenzene	UG/KG					5 U
Meta/Para Xylene	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U	5 U
Methyl Acetate	UG/KG					5 U
Methyl Tertbutyl Ether	UG/KG					5 U
Methyl bromide	UG/KG					5 U
Methyl butyl ketone	UG/KG					5 U
Methyl chloride	UG/KG					5 U

Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	WS-59-01-016-4	WS-59-01-016-5	WS-59-01-016-6	WS-59-01-016-9	WS-59-04-010-8
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	WS-59-01-016-4	WS-59-01-016-5	WS-59-01-016-6	WS-59-01-016-9	WS-59-04-010-8
Sample Depth to Top of Sample	0	0	0	0	0
Sample Depth to Bottom of Sample	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl cyclohexane	UG/KG				5 U
Methyl ethyl ketone	UG/KG	12 U	2.9 J	11 U	11 U
Methyl isobutyl ketone	UG/KG	12 U	12 U	11 U	11 U
Methylene chloride	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U
Ortho Xylene	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U
Styrene	UG/KG				5 U
Tetrachloroethene	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U
Toluene	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U
Total Xylenes	UG/KG				5 U
Trans-1,2-Dichloroethene	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U
Trans-1,3-Dichloropropene	UG/KG				5 U
Trichloroethene	UG/KG	5.8 U	5.9 U	5.7 U	5.7 U
Trichlorofluoromethane	UG/KG				5 U
Vinyl chloride	UG/KG	12 U	12 U	11 U	11 U
Semivolatile Organics					
1,1'-Biphenyl	UG/KG				370 U
2,2'-oxybis(1-Chloropropane)	UG/KG				370 U
2,4,5-Trichlorophenol	UG/KG	1100 U	2000 U	1900 U	1900 U
2,4,6-Trichlorophenol	UG/KG	1100 U	2000 U	1900 U	1900 U
2,4-Dichlorophenol	UG/KG	1100 U	2000 U	1900 U	1900 U
2,4-Dimethylphenol	UG/KG				370 U
2,4-Dinitrophenol	UG/KG	5900 U	10000 U	9700 U	9700 U
2,4-Dinitrotoluene	UG/KG	1100 U	2000 U	1900 U	1900 U
2,6-Dinitrotoluene	UG/KG	1100 U	2000 U	1900 U	1900 U
2-Chloronaphthalene	UG/KG				370 U
2-Chlorophenol	UG/KG	1100 U	2000 U	1900 U	1900 U
2-Methylnaphthalene	UG/KG	1100 U	310 J	240 J	210 J
2-Methylphenol	UG/KG	1100 U	2000 U	1900 U	1900 U
2-Nitroaniline	UG/KG	5900 U	10000 U	9700 U	9700 U
2-Nitrophenol	UG/KG	1100 U	2000 U	1900 U	1900 U
3,3'-Dichlorobenzidine	UG/KG	1100 U	2000 U	1900 U	1900 U
3-Nitroaniline	UG/KG	5900 U	10000 U	9700 U	9700 U
4,6-Dinitro-2-methylphenol	UG/KG				370 U
4-Bromophenyl phenyl ether	UG/KG				370 U
4-Chloro-3-methylphenol	UG/KG	1100 U	2000 U	1900 U	1900 U
4-Chloroaniline	UG/KG	1100 U	2000 U	1900 U	1900 U
4-Chlorophenyl phenyl ether	UG/KG				370 U
4-Methylphenol	UG/KG	1100 U	2000 U	1900 U	1900 U
4-Nitroaniline	UG/KG				370 U
4-Nitrophenol	UG/KG	5900 U	10000 U	9700 U	9700 U
Acenaphthene	UG/KG	1100 U	620 J	550 J	2400
Acenaphthylene	UG/KG	380 J	1500 J	1600 J	2200
Acetophenone	UG/KG				370 U
Aniline	UG/KG	1100 U	2000 U	1900 U	1900 U
Anthracene	UG/KG	280 J	2300	2400	4600
Atrazine	UG/KG				120 J

**Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	WS-59-01-016-4	WS-59-01-016-5	WS-59-01-016-6	WS-59-01-016-9	WS-59-04-010-8
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	WS-59-01-016-4	WS-59-01-016-5	WS-59-01-016-6	WS-59-01-016-9	WS-59-04-010-8
Sample Depth to Top of Sample	0	0	0	0	0
Sample Depth to Bottom of Sample	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzaldehyde	UG/KG				370 U
Benzo(a)anthracene	UG/KG	900 J	4400	5000	7700
Benzo(a)pyrene	UG/KG	1000 J	4400	4700	6700
Benzo(b)fluoranthene	UG/KG	850 J	3300	3100	4900
Benzo(ghi)perylene	UG/KG	530 J	2000	3000	4000
Benzo(k)fluoranthene	UG/KG	930 J	3700	3700	5500
Benzoic Acid	UG/KG	5900 U	10000 U	9700 U	9700 U
Bis(2-Chloroethoxy)methane	UG/KG				370 U
Bis(2-Chloroethyl)ether	UG/KG				370 U
Bis(2-Ethylhexyl)phthalate	UG/KG	1100 U	2000 U	1900 U	1900 U
Butylbenzylphthalate	UG/KG	1100 U	2000 U	1900 U	1900 U
Caprolactam	UG/KG				370 U
Carbazole	UG/KG				370 U
Chrysene	UG/KG	970 J	4300	4900	7600
Di-n-butylphthalate	UG/KG	1100 U	2000 U	1900 U	1900 U
Di-n-octylphthalate	UG/KG	1100 U	2000 U	1900 U	1900 U
Dibenz(a,h)anthracene	UG/KG	180 J	700 J	960 J	1400 J
Dibenzofuran	UG/KG	1100 U	540 J	420 J	1300 J
Diethyl phthalate	UG/KG	1100 U	2000 U	1900 U	1900 U
Dimethylphthalate	UG/KG	1100 U	2000 U	1900 U	1900 U
Fluoranthene	UG/KG	1700	9900	10000	18000
Fluorene	UG/KG	1100 U	1100 J	1200 J	3100
Hexachlorobenzene	UG/KG	1100 U	2000 U	1900 U	1900 U
Hexachlorobutadiene	UG/KG	1100 U	2000 U	1900 U	1900 U
Hexachlorocyclopentadiene	UG/KG				370 U
Hexachloroethane	UG/KG	1100 U	2000 U	1900 U	1900 U
Indeno(1,2,3-cd)pyrene	UG/KG	530 J	2000 J	2700 J	3800 J
Isophorone	UG/KG	1100 U	2000 U	1900 U	1900 U
N-Nitrosodiphenylamine	UG/KG				370 U
N-Nitrosodipropylamine	UG/KG				370 U
Naphthalene	UG/KG	1100 U	360 J	280 J	290 J
Nitrobenzene	UG/KG	1100 U	2000 U	1900 U	1900 U
Pentachlorophenol	UG/KG	5900 U	10000 U	9700 U	9700 U
Phenanthrene	UG/KG	780 J	6900	7400	13000
Phenol	UG/KG	1100 U	2000 U	1900 U	1900 U
Pyrene	UG/KG	1400 J	8300 J	11000	16000
Pyridine	UG/KG	5900 U	10000 U	9700 U	9700 U
Pesticides/PCBs					
4,4'-DDD	UG/KG	96 U	98 U	94 U	94 U
4,4'-DDE	UG/KG	96 U	98 U	94 U	94 U
4,4'-DDT	UG/KG	96 U	98 U	94 U	94 U
Aldrin	UG/KG	49 U	51 U	48 U	48 U
Alpha-BHC	UG/KG	49 U	51 U	48 U	48 U
Alpha-Chlordane	UG/KG	49 U	51 U	48 U	48 U
Beta-BHC	UG/KG	49 U	51 U	48 U	48 U
Delta-BHC	UG/KG	49 U	51 U	48 U	48 U

**Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	WS-59-01-016-4	WS-59-01-016-5	WS-59-01-016-6	WS-59-01-016-9	WS-59-04-010-8
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	WS-59-01-016-4	WS-59-01-016-5	WS-59-01-016-6	WS-59-01-016-9	WS-59-04-010-8
	Sample Depth to Top of Sample	0	0	0	0	0
	Sample Depth to Bottom of Sample	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	J	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dieldrin	UG/KG	96 U	98 U	94 U	94 U	3.7 U
Endosulfan I	UG/KG	49 U	51 U	48 U	48 U	1.9 U
Endosulfan II	UG/KG	96 U	98 U	94 U	94 U	3.7 U
Endosulfan sulfate	UG/KG	96 U	98 U	94 U	94 U	3.7 U
Endrin	UG/KG	96 U	98 U	94 U	94 U	3.7 U
Endrin aldehyde	UG/KG	96 U	98 U	94 U	94 U	3.7 U
Endrin ketone	UG/KG	96 U	98 U	94 U	94 U	3.7 U
Gamma-BHC/Lindane	UG/KG	49 U	51 U	48 U	48 U	1.9 U
Gamma-Chlordane	UG/KG	49 U	51 U	48 U	48 U	1.5
Heptachlor	UG/KG	49 U	51 U	48 U	48 U	1.9 U
Heptachlor epoxide	UG/KG	49 U	51 U	48 U	48 U	1.9 U
Methoxychlor	UG/KG	490 U	510 U	480 U	480 U	19 U
Toxaphene	UG/KG	960 U	980 U	940 U	940 U	190 U
Aroclor-1016	UG/KG	38 U	39 U	38 U	38 U	3.7 U
Aroclor-1221	UG/KG	38 U	39 U	38 U	38 U	3.7 U
Aroclor-1232	UG/KG	38 U	39 U	38 U	38 U	3.7 U
Aroclor-1242	UG/KG	38 U	39 U	38 U	38 U	3.7 U
Aroclor-1248	UG/KG	38 U	39 U	38 U	38 U	3.7 U
Aroclor-1254	UG/KG	38 U	39 U	38 U	38 U	3.7 U
Aroclor-1260	UG/KG	38 U	39 U	38 U	38 U	3.7 U
Metals						
Aluminum	MG/KG	11000	11500	9410	10900	6830 J
Antimony	MG/KG	3.4 UJ	4.6 J	3.4 UJ	3.3 UJ	0.96 J
Arsenic	MG/KG	5	6.8	4.2	4.4	3.7 J
Barium	MG/KG	86.5	126	94.4	85	62.7 J
Beryllium	MG/KG	0.39	0.41	0.26	0.37	0.35
Cadmium	MG/KG	0.68	1.2	1.1	0.77	0.4
Calcium	MG/KG	43600	56900	72100	60200	72900
Chromium	MG/KG	18.5	20.7	16.1	19.3	11.4 J
Cobalt	MG/KG	11.2	10.9	8.8	9.4	6.1 J
Copper	MG/KG	26.5 J	42.5 J	33.6 J	31.1 J	32.5 J
Iron	MG/KG	22500	26300	18300	20600	14900
Lead	MG/KG	29.4 J	75.3 J	59.7 J	61.8 J	15.4 J
Magnesium	MG/KG	7450	6490	13900	7580	15700 J
Manganese	MG/KG	515	1220	574	512	321 J
Mercury	MG/KG	0.12	0.07	0.1	0.14	0.52 J
Nickel	MG/KG	30.3	26.1	24.1	27	19.1 J
Potassium	MG/KG	1230	1260	1120	1200	1200 J
Selenium	MG/KG	0.56 U	0.56 U	0.56 U	0.27 U	0.45 U
Silver	MG/KG	0.56 U	0.56 U	0.56 U	0.55 U	4.1 J
Sodium	MG/KG	525	123	178	176	140 J
Thallium	MG/KG	0.56 U	0.79 J	0.56 U	0.55 U	0.22 U
Vanadium	MG/KG	19.4	23.7	17.6	19.1	13.7 J
Zinc	MG/KG	90.5 J	109 J	75.4 J	91.5 J	63.2 J

Table D-2
SEAD-59 STOCKPILE SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	WS-59-01-016-4	WS-59-01-016-5	WS-59-01-016-6	WS-59-01-016-9	WS-59-04-010-8
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	WS-59-01-016-4	WS-59-01-016-5	WS-59-01-016-6	WS-59-01-016-9	WS-59-04-010-8
Sample Depth to Top of Sample	0	0	0	0	0
Sample Depth to Bottom of Sample	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)

Note(s):

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected; the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-3
SEAD-59 RI GROUNDWATER DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	MW59-1	MW59-2	MW59-2	MW59-3	MW59-3	MW59-3
	Matrix	GW	GW	GW	GW	GW	GW
	Sample ID	592000	592001	592006	592002	592007DUP	592007
	Sample Depth to Top of Sample	8.86	12.93	0	8.04	0	0
	Sample Depth to Bottom of Sample	8.86	12.93	0	8.04	0	0
	Sample Date	4/6/2004	4/6/2004	8/31/2004	4/5/2004	8/30/2004	8/30/2004
	QC Code	SA	SA	SA	SA	DU	SA
	Study ID	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004
		1	1	2	1	2	2
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics							
1,1,1,2-Tetrachloroethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
1,1,1-Trichloroethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.44 U
1,1,2,2-Tetrachloroethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
1,1,2-Trichloroethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
1,1-Dichloroethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
1,1-Dichloroethene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
1,1-Dichloropropane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
1,2,3-Trichlorobenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
1,2,3-Trichloropropane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
1,2,4-Trichlorobenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
1,2,4-Trimethylbenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
1,2-Dibromo-3-chloropropane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
1,2-Dibromomethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
1,2-Dichlorobenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
1,2-Dichloromethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
1,2-Dichloroethene (total)	UG/L						
1,2-Dichloropropane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
1,3,5-Trimethylbenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
1,3-Dichlorobenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
1,3-Dichloropropane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
1,4-Dichlorobenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
2,2-Dichloropropane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
2-Chlorotoluene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Acetone	UG/L						
Benzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Bromobenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Bromochloromethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Bromodichloromethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Bromoform	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Carbon disulfide	UG/L						
Carbon tetrachloride	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Chlorobenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Chlorodibromomethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Chloroethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Chloroform	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Cis-1,2-Dichloroethene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Cis-1,1-Dichloropropene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Dichlorodifluoromethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U

Table D-3
SEAD-59 RI GROUNDWATER DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Parameter	Units	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
		Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Ethyl benzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Meta/Para Xylene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl bromide	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl butyl ketone	UG/L						
Methyl chloride	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Methyl ethyl ketone	UG/L						
Methyl isobutyl ketone	UG/L						
Methylene bromide	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Methylene chloride	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Naphthalene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Ortho Xylene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Propylbenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Styrene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Tetrachloroethene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Toluene	UG/L	0.5 U	0.5 U	0.5 U	0.27 J		0.5 U
Total Xylenes	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Trans-1,2-Dichloroethene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Trans-1,3-Dichloropropene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Trichloroethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Trichlorofluoromethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Vinyl acetate	UG/L	1 U	1 U	1 U	1 U		1 U
Vinyl chloride	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Semivolatile Organics							
n-Butylbenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
p-Chlorotoluene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
p-Isopropyltoluene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
sec-Butylbenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
tert-Butylbenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
1,2,4-Trichlorobenzene	UG/L	10 U	9.9 U	10.8 U	9.7 U		9.7 U
1,2-Dichlorobenzene	UG/L	10 U	9.9 U	10.8 U	9.7 U		9.7 U
1,2-Diphenylhydrazine	UG/L	10 U	9.9 U	10.8 U	9.7 U		9.7 U
1,3-Dichlorobenzene	UG/L	10 U	9.9 U	10.8 U	9.7 U		9.7 U
1,4-Dichlorobenzene	UG/L	10 U	9.9 U	10.8 U	9.7 U		9.7 U
2,2'-oxybis(1-Chloropropane)	UG/L						
2,4,5-Trichlorophenol	UG/L	10 U	9.9 U	10.8 U	9.7 U		9.7 U
2,4,6-Trichlorophenol	UG/L	10 U	9.9 U	10.8 U	9.7 U		9.7 U
2,4-Dichlorophenol	UG/L	10 U	9.9 U	10.8 U	9.7 U		9.7 U
2,4-Dimethylphenol	UG/L	10 U	9.9 U	10.8 U	9.7 U		9.7 U
2,4-Dinitrophenol	UG/L	20 U	19.8 U	21.5 U	19.4 U		19.4 U
2,4-Dinitrotoluene	UG/L	10 U	9.9 U	10.8 U	9.7 U		9.7 U
2,6-Dichlorophenol	UG/L	10 U	9.9 U	10.8 U	9.7 U		9.7 U
2,6-Dinitrotoluene	UG/L	10 U	9.9 U	10.8 U	9.7 U		9.7 U
2-Chloronaphthalene	UG/L	1 U	0.99 U	1.1 U	0.97 U		0.97 U
2-Chlorophenol	UG/L	10 U	9.9 U	10.8 U	9.7 U		9.7 U

Table D-3
SEAD-59 RI GROUNDWATER DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	MW59-1	MW59-2	MW59-2	MW59-3	MW59-3	MW59-3
	Matrix	GW	GW	GW	GW	GW	GW
	Sample ID	592000	592001	592006	592002	592007DUP	592007
	Sample Depth to Top of Sample	8.86	12.93	0	8.04	0	0
	Sample Depth to Bottom of Sample	8.86	12.93	0	8.04	0	0
	Sample Date	4/6/2004	4/6/2004	8/31/2004	4/5/2004	8/30/2004	8/30/2004
	QC Code	SA	SA	SA	SA	DU	SA
	Study ID	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004
		1	1	2	1	2	2
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
2-Methylnaphthalene	UG/L	1 U	0.99 U	1.1 U	0.97 U	0.97 U	0.97 U
2-Methylphenol	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
2-Nitroaniline	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
2-Nitrophenol	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
3,3'-Dichlorobenzidine	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
3-Nitroaniline	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
4,6-Dinitro-2-methylphenol	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
4-Bromophenyl phenyl ether	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
4-Chloro-3-methylphenol	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
4-Chloroaniline	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
4-Chlorophenyl phenyl ether	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
4-Methylphenol	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
4-Nitroaniline	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
4-Nitrophenol	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
Acenaphthene	UG/L	1 U	0.99 U	1.1 U	0.97 U	0.97 U	0.97 U
Acenaphthylene	UG/L	1 U	0.99 U	1.1 U	0.97 U	0.97 U	0.97 U
Acetophenone	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
Anthracene	UG/L	1 U	0.99 U	1.1 U	0.97 U	0.97 U	0.97 U
Benazidine	UG/L	50 U	49.5 U	53.8 U	48.5 U	48.5 U	48.5 U
Benzo(a)anthracene	UG/L	1 U	0.99 U	1.1 U	0.97 U	0.97 U	0.97 U
Benzo(a)pyrene	UG/L	1 U	0.99 U	1.1 U	0.97 U	0.97 U	0.97 U
Benzo(b)fluoranthene	UG/L	1 U	0.99 U	1.1 U	0.97 U	0.97 U	0.97 U
Benzo(ghi)perylene	UG/L	1 U	0.99 U	1.1 U	0.97 U	0.97 U	0.97 U
Benzo(k)fluoranthene	UG/L	1 U	0.99 U	1.1 U	0.97 U	0.97 U	0.97 U
Benzoic Acid	UG/L	20 U	19.8 U	21.5 U	19.4 U	19.4 U	19.4 U
Benzyl alcohol	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
Bis(2-Chloroethoxy)methane	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
Bis(2-Chloroethyl)ether	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
Bis(2-Chloroisopropyl)ether	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
Bis(2-Ethylhexyl)phthalate	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
Butylbenzylphthalate	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
Carbazole	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
Chrysene	UG/L	1 U	0.99 U	1.1 U	0.97 U	0.97 U	0.97 U
Di-n-butylphthalate	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
Di-n-octylphthalate	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
Dibenz(a,h)anthracene	UG/L	1 U	0.99 U	1.1 U	0.97 U	0.97 U	0.97 U
Dibenzofuran	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
Diethyl phthalate	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
Dimethylphthalate	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
Diphenylamine	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
Fluoranthene	UG/L	1 U	0.99 U	1.1 U	0.97 U	0.97 U	0.97 U
Fluorene	UG/L	1 U	0.99 U	1.1 U	0.97 U	0.97 U	0.97 U
Hexachlorobenzene	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
Hexachlorobutadiene	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
Hexachlorocyclopentadiene	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U
Hexachloroethane	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U	9.7 U

Table D-3
SEAD-59 RI GROUNDWATER DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility Location ID	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	MW59-1	MW59-2	MW59-2	MW59-3	MW59-3	MW59-3
Matrix	GW	GW	GW	GW	GW	GW
Sample ID	592000	592001	592006	592002	592007DUP	592007
Sample Depth to Top of Sample	8.86	12.93	0	8.04	0	0
Sample Depth to Bottom of Sample	8.86	12.93	0	8.04	0	0
Sample Date	4/6/2004	4/6/2004	8/31/2004	4/5/2004	8/30/2004	8/30/2004
QC Code	SA	SA	SA	SA	DU	SA
Study ID	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004
	1	1	2	1	2	2
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Indeno(1,2,3-cd)pyrene	UG/L	1 UJ	0.99 UJ	1.1 UJ	0.97 UJ	0.97 UJ
Isophorone	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U
N-Nitrosodimethylamine	UG/L	10 UJ	9.9 UJ	10.8 U	9.7 UJ	9.7 UJ
N-Nitrosodiphenylamine	UG/L					
N-Nitrosodipropylamine	UG/L	10 U	9.9 U	10.8 UJ	9.7 U	9.7 U
N-Nitrosopyrrolidine	UG/L	10 U	9.9 U	10.8 U	9.7 UJ	9.7 UJ
Naphthalene	UG/L	1 U	0.99 U	1.1 U	0.97 U	0.97 UJ
Nitrobenzene	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U
Pentachlorophenol	UG/L	10 U	9.9 UJ	10.8 UJ	9.7 U	9.7 U
Phenanthrene	UG/L	1 U	0.99 U	1.1 U	0.97 U	0.97 U
Phenol	UG/L	10 U	9.9 U	10.8 U	9.7 U	9.7 U
Pyrene	UG/L	1 U	0.99 U	1.1 U	0.97 U	0.97 U
Pesticides/PCBs						
4,4'-DDD	UG/L	0.0392 U	0.0377 U	0.0392 U	0.0396 UJ	0.0381 U
4,4'-DDE	UG/L	0.008 J	0.0377 U	0.0392 U	0.0396 UJ	0.0381 U
4,4'-DDT	UG/L	0.0392 U	0.0377 U	0.0392 U	0.042 J	0.0381 U
Aldrin	UG/L	0.0196 U	0.0189 U	0.0196 U	0.0198 UJ	0.019 U
Alpha-BHC	UG/L	0.0196 U	0.0189 U	0.0196 U	0.0198 UJ	0.019 U
Alpha-Chlordane	UG/L					
Beta-BHC	UG/L	0.0196 U	0.0189 U	0.0196 U	0.0198 UJ	0.019 U
Chlordane	UG/L	0.245 U	0.236 U	0.245 U	0.248 UJ	0.238 UJ
Delta-BHC	UG/L	0.0196 U	0.0189 U	0.0196 U	0.0198 UJ	0.019 UJ
Dieldrin	UG/L	0.0392 U	0.0377 U	0.0392 U	0.0396 UJ	0.0381 U
Endosulfan I	UG/L	0.0196 U	0.0189 U	0.0196 U	0.0198 UJ	0.019 U
Endosulfan II	UG/L	0.0392 U	0.0377 U	0.0392 U	0.0396 UJ	0.0381 U
Endosulfan sulfate	UG/L	0.0392 U	0.0377 U	0.0392 U	0.0396 UJ	0.0381 U
Endrin	UG/L	0.0392 U	0.0377 U	0.0392 U	0.0396 UJ	0.0381 U
Endrin aldehyde	UG/L	0.0392 U	0.0377 U	0.0392 U	0.0396 UJ	0.0381 U
Endrin ketone	UG/L	0.0392 U	0.0377 U	0.0392 U	0.0396 UJ	0.0381 U
Gamma-BHC/Lindane	UG/L	0.0196 U	0.0189 U	0.0196 U	0.0198 UJ	0.019 U
Gamma-Chlordane	UG/L					
Heptachlor	UG/L	0.0196 UJ	0.0189 UJ	0.0196 U	0.0198 UJ	0.019 UJ
Heptachlor epoxide	UG/L	0.0196 U	0.0189 U	0.0196 U	0.0198 UJ	0.019 U
Methoxychlor	UG/L	0.196 U	0.189 U	0.196 U	0.198 UJ	0.19 U
Toxaphene	UG/L	0.98 U	0.943 U	0.98 U	0.99 UJ	0.952 U
Aroclor-1016	UG/L	0.49 U	0.472 U	0.49 U	0.495 UJ	0.476 U
Aroclor-1221	UG/L	0.49 U	0.472 U	0.49 U	0.495 UJ	0.476 U
Aroclor-1232	UG/L	0.49 U	0.472 U	0.49 U	0.495 UJ	0.476 U
Aroclor-1242	UG/L	0.49 U	0.472 U	0.49 U	0.495 UJ	0.476 U
Aroclor-1248	UG/L	0.49 U	0.472 U	0.49 U	0.495 UJ	0.476 U
Aroclor-1254	UG/L	0.49 U	0.472 U	0.49 U	0.495 UJ	0.476 U
Aroclor-1260	UG/L	0.49 U	0.472 U	0.49 U	0.495 UJ	0.476 U
Metals						
Aluminum	UG/L	100	26.8 J	73.8	165	372 J
Antimony	UG/L	5.49 J	6.58 J	10 UJ	8.6 J	10 U
Arsenic	UG/L	4.47 U	2.24 U	5 U	22.4 U	5 U

**Table D-3
SEAD-59 RI GROUNDWATER DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	MW59-1	MW59-2	MW59-2	MW59-3	MW59-3	MW59-3
	Matrix	GW	GW	GW	GW	GW	GW
	Sample ID	592000	592001	592006	592002	592007DUP	592007
	Sample Depth to Top of Sample	8.86	12.93	0	8.04	0	0
	Sample Depth to Bottom of Sample	8.86	12.93	0	8.04	0	0
	Sample Date	4/6/2004	4/6/2004	8/31/2004	4/5/2004	8/30/2004	8/30/2004
	QC Code	SA	SA	SA	SA	DU	SA
	Study ID	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004
		1	1	2	1	2	2
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Barium	UG/L	54.7	80.1	132	120	80.4	80.3
Beryllium	UG/L	0.158 U	0.158 U	5 U	0.158 U	5 U	5 U
Cadmium	UG/L	0.518 J	0.313 U	5 U	0.313 U	0.725 J	0.91 J
Calcium	UG/L	125000	102000	131000	169000	101000	102000
Chromium	UG/L	0.503 U	0.503 U	0.72 J	0.503 U	5 U	5 U
Cobalt	UG/L	0.775 J	0.541 U	1.2 J	0.541 U	5 U	5 U
Copper	UG/L	1.39 U	1.39 U	5 U	2.04 J	1.7 J	1.9 J
Cyanide	UG/L						
Iron	UG/L	252	83.7	60.9 J	321	414	385
Lead	UG/L	1.72 U	1.72 U	1.7 J	1.72 U	5 U	5 U
Magnesium	UG/L	22800	22000	28800	20800	12600	12700
Manganese	UG/L	221	9.11	33.7	21.7	45.4	46.3 J
Mercury	UG/L	0.047 U	0.047 U	0.2 U	0.047 U	0.0639 J	0.2 U
Nickel	UG/L	4.98	0.69 U	0.84 J	0.812 J	3.01 J	1.5 J
Potassium	UG/L	1500 J	817 J	1120	1799 J	1700	1710
Selenium	UG/L	2.81 U	2.81 U	5.2 R	2.81 U	5 R	5 R
Silver	UG/L	0.835 U	0.833 U	5 U	0.835 U	5 U	5 U
Sodium	UG/L	35400	22000	36300	304000	227000	233000
Thallium	UG/L	10 U	10 U	20 U	10 U	20 U	20 U
Vanadium	UG/L	0.606 U	0.606 U	5 U	0.606 U	5 U	5 U
Zinc	UG/L	3.21 J	3.44 J	1.5 J	13.2	7.99	9.9

Note(s)

(1) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected, the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-3
SEAD-59 RI GROUNDWATER DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	MW59-3	MW59-4	MW59-6	MW59-6	MW59-7	MW59-8
	Matrix	GW	GW	GW	GW	GW	GW
	Sample ID	592010	592003	592004	592009	592005	592008
	Sample Depth to Top of Sample	0	8.43	12.45	0	0	0
	Sample Depth to Bottom of Sample	0	8.43	12.45	0	0	0
	Sample Date	8/30/2004	4/6/2004	4/5/2004	8/30/2004	8/31/2004	8/30/2004
	QC Code	SA	SA	SA	SA	SA	SA
	Study ID	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004
		2	1	1	2	2	2
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics							
1,1,1,2-Tetrachloroethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	UG/L	0.46 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,4-Trichlorobenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (total)	UG/L						
1,2-Dichloropropane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichloropropane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,2-Dichloropropane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chlorotoluene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Acetone	UG/L						
Benzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon disulfide	UG/L						
Carbon tetrachloride	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorodibromomethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,2-Dichloroethene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,3-Dichloropropene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table D-3
SEAD-59 RI GROUNDWATER DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	MW59-3	MW59-4	MW59-6	MW59-6	MW59-7	MW59-8
	Matrix	GW	GW	GW	GW	GW	GW
	Sample ID	592010	592003	592004	592009	592005	592008
	Sample Depth to Top of Sample	0	8.43	12.45	0	0	0
	Sample Depth to Bottom of Sample	0	8.43	12.45	0	0	0
	Sample Date	8/30/2004	4/6/2004	4/5/2004	8/10/2004	8/31/2004	8/30/2004
	QC Code	SA	SA	SA	SA	SA	SA
	Study ID	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004
		2	1	1	2	2	2
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Ethyl benzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Meta/Para Xylene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl bromide	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl butyl ketone	UG/L						
Methyl chloride	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl ethyl ketone	UG/L						
Methyl isobutyl ketone	UG/L						
Methylene bromide	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene chloride	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ortho Xylene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Propylbenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total Xylenes	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl acetate	UG/L	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Semivolatile Organics							
n-Butylbenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-Chlorotoluene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-Isopropyltoluene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U
1,2-Dichlorobenzene	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U
1,2-Diphenylhydrazine	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U
1,3-Dichlorobenzene	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U
1,4-Dichlorobenzene	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U
2,2'-oxybis(1-Chloropropane)	UG/L						
2,4,5-Trichlorophenol	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U
2,4-Dichlorophenol	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U
2,4-Dimethylphenol	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U
2,4-Dinitrophenol	UG/L	20 U	20 U	19.8 U	20.8 U	20 U	20.4 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U
2,6-Dichlorophenol	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U
2-Chloronaphthalene	UG/L	1 U	1 U	0.99 U	1 U	1 U	1 U
2-Chlorophenol	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U

Table D-3
SEAD-59 RI GROUNDWATER DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
Location ID	MW59-3	MW59-4	MW59-6	MW59-6	MW59-7	MW59-8
Matrix	GW	GW	GW	GW	GW	GW
Sample ID	592010	592003	592004	592009	592005	592008
Sample Depth to Top of Sample	0	8.43	12.45	0	0	0
Sample Depth to Bottom of Sample	0	8.43	12.45	0	0	0
Sample Date	8/30/2004	4/6/2004	4/5/2004	8/30/2004	8/31/2004	8/30/2004
QC Code	SA	SA	SA	SA	SA	SA
Study ID	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004
	2	1	1	2	2	2
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
2-Methylnaphthalene	UG/L	1 U	1 U	0.99 U	1 U	1 U
2-Methylphenol	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
2-Nitroaniline	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
2-Nitrophenol	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
3,3'-Dichlorobenzidine	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
3-Nitroaniline	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
4,6-Dinitro-2-methylphenol	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
4-Bromophenyl phenyl ether	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
4-Chloroaniline	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
4-Chlorophenyl phenyl ether	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
4-Methylphenol	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
4-Nitroaniline	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
4-Nitrophenol	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
Acenaphthene	UG/L	1 U	1 U	0.99 U	1 U	1 U
Acenaphthylene	UG/L	1 U	1 U	0.99 U	1 U	1 U
Acetophenone	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
Anthracene	UG/L	1 U	1 U	0.99 U	1 U	1 U
Benzidine	UG/L	50 U	50 U	49.5 U	52.1 U	51 U
Benzo(a)anthracene	UG/L	1 U	1 U	0.99 U	1 U	1 U
Benzo(a)pyrene	UG/L	1 U	1 U	0.99 U	1 U	1 U
Benzo(h)fluoranthene	UG/L	1 U	1 U	0.99 U	1 U	1 U
Benzo(ghi)perylene	UG/L	1 U	1 U	0.99 U	1 U	1 U
Benzo(k)fluoranthene	UG/L	1 U	1 U	0.99 U	1 U	1 U
Benzoic Acid	UG/L	20 U	20 U	19.8 U	20.8 U	20.4 U
Benzyl alcohol	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
Bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
Bis(2-Chloroethyl)ether	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
Bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
Bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
Butylbenzylphthalate	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
Carbazole	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
Chrysene	UG/L	1 U	1 U	0.99 U	1 U	1 U
Di-n-butylphthalate	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
Di-n-octylphthalate	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
Dibenz(a,h)anthracene	UG/L	1 U	1 U	0.99 U	1 U	1 U
Dibenzofuran	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
Diethyl phthalate	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
Dimethylphthalate	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
Diphenylamine	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
Fluoranthene	UG/L	1 U	1 U	0.99 U	1 U	1 U
Fluorene	UG/L	1 U	1 U	0.99 U	1 U	1 U
Hexachlorobenzene	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
Hexachlorobutadiene	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
Hexachlorocyclopentadiene	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U
Hexachloromethane	UG/L	10 U	10 U	9.9 U	10.4 U	10.2 U

Table D-3
SEAD-59 RI GROUNDWATER DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	MW59-3	MW59-4	MW59-6	MW59-6	MW59-7	MW59-8
	Matrix	GW	GW	GW	GW	GW	GW
	Sample ID	592010	592003	592004	592009	592005	592008
	Sample Depth to Top of Sample	0	8.43	12.45	0	0	0
	Sample Depth to Bottom of Sample	0	8.43	12.45	0	0	0
	Sample Date	8/30/2004	4/6/2004	4/5/2004	8/30/2004	8/31/2004	8/30/2004
	QC Code	SA	SA	SA	SA	SA	SA
	Study ID	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004
		2	1	1	2	2	2
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Indeno(1,2,3-cd)pyrene	UG/L	1 U	1 U	0.99 U	1 U	1 U	1 U
Isophorone	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U
N-Nitrosodimethylamine	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U
N-Nitrosodiphenylamine	UG/L						
N-Nitrosodipropylamine	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U
N-Nitrosopyrrolidine	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U
Naphthalene	UG/L	1 U	1 U	0.99 U	1 U	1 U	1 U
Nitrobenzene	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U
Pentachlorophenol	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U
Phenanthrene	UG/L	1 U	1 U	0.99 U	1 U	1 U	1 U
Phenol	UG/L	10 U	10 U	9.9 U	10.4 U	10 U	10.2 U
Pyrene	UG/L	1 U	1 U	0.99 U	1 U	1 U	1 U
Pesticides/PCBs							
4,4'-DDD	UG/L	0.04 U	0.0385 U	0.0385 U	0.0388 U	0.0388 U	0.0385 U
4,4'-DDE	UG/L	0.04 U	0.0385 U	0.008 U	0.0388 U	0.0388 U	0.0385 U
4,4'-DDT	UG/L	0.04 U	0.0385 U	0.0385 U	0.0388 U	0.0388 U	0.0385 U
Aldrin	UG/L	0.02 U	0.0192 U	0.0192 U	0.0194 U	0.0194 U	0.0192 U
Alpha-BHC	UG/L	0.02 U	0.0192 U	0.0192 U	0.0194 U	0.0194 U	0.0192 U
Alpha-Chlordane	UG/L						
Beta-BHC	UG/L	0.02 U	0.0192 U	0.0192 U	0.0194 U	0.0194 U	0.0192 U
Chlordane	UG/L	0.25 U	0.24 U	0.24 U	0.243 U	0.243 U	0.24 U
Delta-BHC	UG/L	0.02 U	0.0192 U	0.0192 U	0.0194 U	0.0194 U	0.0192 U
Dieldrin	UG/L	0.04 U	0.0385 U	0.0385 U	0.0388 U	0.0388 U	0.0385 U
Endosulfan I	UG/L	0.02 U	0.0192 U	0.0192 U	0.0194 U	0.0194 U	0.0192 U
Endosulfan II	UG/L	0.04 U	0.0385 U	0.0385 U	0.0388 U	0.0388 U	0.0385 U
Endosulfan sulfate	UG/L	0.04 U	0.0385 U	0.0385 U	0.0388 U	0.0388 U	0.0385 U
Endrin	UG/L	0.04 U	0.0385 U	0.0385 U	0.0388 U	0.0388 U	0.0385 U
Endrin aldehyde	UG/L	0.04 U	0.0385 U	0.0385 U	0.0388 U	0.0388 U	0.0385 U
Endrin ketone	UG/L	0.04 U	0.0385 U	0.0385 U	0.0388 U	0.0388 U	0.0385 U
Gamma-BHC/landane	UG/L	0.02 U	0.0192 U	0.0192 U	0.0194 U	0.0194 U	0.0192 U
Gamma-Chlordane	UG/L						
Heptachlor	UG/L	0.02 U	0.0192 U	0.0192 U	0.0194 U	0.0194 U	0.0192 U
Heptachlor epoxide	UG/L	0.02 U	0.0192 U	0.0192 U	0.0194 U	0.0194 U	0.0192 U
Methoxychlor	UG/L	0.2 U	0.192 U	0.192 U	0.194 U	0.194 U	0.192 U
Toxaphene	UG/L	1 U	0.962 U	0.962 U	0.971 U	0.971 U	0.962 U
Aroclor-1016	UG/L	0.5 U	0.481 U	0.481 U	0.485 U	0.485 U	0.481 U
Aroclor-1221	UG/L	0.5 U	0.481 U	0.481 U	0.485 U	0.485 U	0.481 U
Aroclor-1232	UG/L	0.5 U	0.481 U	0.481 U	0.485 U	0.485 U	0.481 U
Aroclor-1242	UG/L	0.5 U	0.481 U	0.481 U	0.485 U	0.485 U	0.481 U
Aroclor-1248	UG/L	0.5 U	0.481 U	0.481 U	0.485 U	0.485 U	0.481 U
Aroclor-1254	UG/L	0.5 U	0.481 U	0.481 U	0.485 U	0.485 U	0.481 U
Aroclor-1260	UG/L	0.5 U	0.481 U	0.481 U	0.485 U	0.485 U	0.481 U
Metals							
Aluminum	UG/L	103 U	14.7 U	3250	288	50.8 U	179
Antimony	UG/L	10 U	5.08 U	8.34 U	10 U	10 U	10 U
Arsenic	UG/L	5 U	22.4 U	2.24 U	5 U	5 U	5 U

**Table D-3
SEAD-59 RI GROUNDWATER DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59	SEAD-59
	Location ID	MW59-3	MW59-4	MW59-6	MW59-6	MW59-7	MW59-8
	Matrix	GW	GW	GW	GW	GW	GW
	Sample ID	592010	592003	592004	592009	592005	592008
	Sample Depth to Top of Sample	0	8.43	12.45	0	0	0
	Sample Depth to Bottom of Sample	0	8.43	12.45	0	0	0
	Sample Date	8/30/2004	4/6/2004	4/5/2004	8/30/2004	8/31/2004	8/30/2004
	QC Code	SA	SA	SA	SA	SA	SA
	Study ID	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004
		2	1	1	2	2	2
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Barium	UG/L	80.7	62.5	60.2	55.8	69.6	98.3
Beryllium	UG/L	5 U	0.158 U	0.158 U	5 U	5 U	5 U
Cadmium	UG/L	0.89 J	0.335 J	0.404 J	5 U	5 U	5 U
Calcium	UG/L	103000	127000	158000	146000	107000	138000
Chromium	UG/L	1.2 J	0.503 U	3.54	5 U	0.53 J	1.4 J
Cobalt	UG/L	5 U	0.541 U	2.92	0.68 J	5 U	5 U
Copper	UG/L	5 U	1.42 J	4.65 J	5 U	5 U	5 U
Cyanide	UG/L						
Iron	UG/L	146	184	3680	484	242	666
Lead	UG/L	5 U	1.72 U	1.72 U	2.5 J	4.4 J	2.4 J
Magnesium	UG/L	12900	21100	27900	27100	23700	21700
Manganese	UG/L	20.9 J	91.4	314	191	135	294
Mercury	UG/L	0.2 U	0.047 U	0.047 U	0.2 U	0.2 U	0.2 U
Nickel	UG/L	2 J	0.69 U	6.08	3.6	5 U	5.5
Potassium	UG/L	1630	1190 J	2400 J	1470	2320	1830
Selenium	UG/L	5 R	2.81 U	2.81 U	5 R	5 U	4.2 J
Silver	UG/L	5 U	0.835 U	0.835 U	5 U	5 U	5 U
Sodium	UG/L	236000	53200	50100	49000	235000	148000
Thallium	UG/L	20 U	10 U	10 U	20 U	20 U	20 U
Vanadium	UG/L	0.89 J	0.606 U	5.26	5 U	5 U	5 U
Zinc	UG/L	5.6	2.78 J	11.1	2.5 J	2 J	2 J

Notes:

(1) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected; the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Parameter	Units	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
		CL-71-A-F01	CL-71-A-WE1	CL-71-A-WN1	CL-71-A-WS1	CL-71-A-WW1	CL-71-B-F01	CL-71-B-WE2	CL-71-B-WN1	CL-71-B-WS1	CL-71-B-WW1
Location ID	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	CL-71-A-F01	CL-71-A-WE1	CL-71-A-WN1	CL-71-A-WS1	CL-71-A-WW1	CL-71-B-F01	CL-71-B-WE2	CL-71-B-WN1	CL-71-B-WS1	CL-71-B-WW1	
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	
Value (Q)	1	1	1	1	1	1	1	1	1	1	
Volatile Organics											
1,1,1-Trichloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	2 NJ	6 U	5 U
1,1,2,2-Tetrachloroethane	UG/KG	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	6 UJ	5 R	6 UJ	5 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 UJ	6 UJ	5 UJ	6 UJ	5 UJ
1,1,2-Trichloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
1,1-Dichloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
1,1-Dichloroethene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
1,2,3-Trichloropropane	UG/KG										
1,2,4-Trichlorobenzene	UG/KG	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	6 UJ	5 R	6 UJ	5 UJ
1,2-Dibromo-3-chloropropane	UG/KG	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	6 UJ	5 R	6 UJ	5 UJ
1,2-Dibromomethane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
1,2-Dichlorobenzene	UG/KG	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	6 UJ	5 R	6 UJ	5 UJ
1,2-Dichloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
1,2-Dichloroethene (total)	UG/KG										
1,2-Dichloropropane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
1,4-Dichlorobenzene	UG/KG	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	6 UJ	5 R	6 UJ	5 UJ
1,4-Dichloropropane	UG/KG										
1,4-Dichlorobenzene	UG/KG	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	6 UJ	5 R	6 UJ	5 UJ
Acetone	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	4 NJ	5 J	4 NJ	5 U
Benzene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Bromodichloromethane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Bromoform	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Carbon disulfide	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 J	6 U	5 U
Carbon tetrachloride	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Chlorobenzene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Chlorodibromomethane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Chloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Chloroform	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Cis-1,2-Dichloroethene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Cis-1,3-Dichloropropene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Cyclohexane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Dichlorodifluoromethane	UG/KG	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	6 U	5 UJ	6 U	5 UJ
Ethyl benzene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Isopropylbenzene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U

**Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-A-F01	CL-71-A-WE1	CL-71-A-WN1	CL-71-A-WS1	CL-71-A-WW1	CL-71-B-F01	CL-71-B-WE2	CL-71-B-WN1	CL-71-B-WS1	CL-71-B-WW1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-A-F01	CL-71-A-WE1	CL-71-A-WN1	CL-71-A-WS1	CL-71-A-WW1	CL-71-B-F01	CL-71-B-WE2	CL-71-B-WN1	CL-71-B-WS1	CL-71-B-WW1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Meta/Para Xylene	UG/KG										
Methyl Acetate	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Methyl Tertiary Ether	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Methyl bromide	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 UJ	5 UJ	6 UJ	5 U
Methyl butyl ketone	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Methyl chloride	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Methyl cyclohexane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	3 J	6 U	5 U
Methyl ethyl ketone	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Methyl isobutyl ketone	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Methylene chloride	UG/KG	5 U	5 U	6 U	5 U	5 U	5 U	6 U	7 U	6 U	9 U
Ortho Xylene	UG/KG										
Styrene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Tetrachloroethene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Toluene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	1 J	6 U	5 U
Total BTEX	MG/KG										
Total Xylenes	UG/KG	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	6 UJ	5 R	6 UJ	5 UJ
Trans-1,2-Dichloroethene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Trans-1,3-Dichloropropene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Trichloroethene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Trichlorofluoromethane	UG/KG	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 UJ	6 UJ	5 UJ	6 UJ	5 UJ
Vinyl chloride	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Semivolatile Organics											
1,1'-Biphenyl	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
1,2,4-Trichlorobenzene	UG/KG										
1,2-Dichlorobenzene	UG/KG										
1,3-Dichlorobenzene	UG/KG										
1,4-Dichlorobenzene	UG/KG										
2,2'-oxybis(1-Chloropropane)	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
2,4,5-Trichlorophenol	UG/KG	1000 U	880 U	900 U	920 U	890 U	870 UJ	1000 UJ	2700 UJ	1000 UJ	920 UJ
2,4,6-Trichlorophenol	UG/KG	400 U	350 U	360 UJ	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
2,4-Dichlorophenol	UG/KG	400 U	350 U	360 UJ	370 U	350 UJ	350 UJ	400 U	1100 U	400 U	360 U
2,4-Dimethylphenol	UG/KG	400 U	350 U	360 U	370 U	350 UJ	350 U	400 U	1100 U	400 U	360 U
2,4-Dinitrophenol	UG/KG	1000 UJ	880 UJ	900 UJ	920 UJ	890 UJ	870 UJ	1000 UJ	2700 UJ	1000 UJ	920 UJ
2,4-Dinitrotoluene	UG/KG	400 UJ	350 U	360 UJ	370 U	350 UJ	350 U	400 U	1100 U	400 U	360 U
2,6-Dinitrotoluene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
2-Chloronaphthalene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
2-Chlorophenol	UG/KG	400 U	350 U	360 U	370 U	350 UJ	350 U	400 U	1100 U	400 U	360 U
2-Methylnaphthalene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
2-Methylphenol	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
2-Nitroaniline	UG/KG	1000 U	880 UJ	900 UJ	920 U	890 U	870 U	1000 U	2700 U	1000 U	920 U
2-Nitrophenol	UG/KG	400 U	350 U	360 UJ	370 U	350 UJ	350 UJ	400 U	1100 U	400 U	360 U
3,3'-Dichlorobenzidine	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 UJ	1100 U	400 U	360 U
3-Nitroaniline	UG/KG	1000 U	880 UJ	900 UJ	920 U	890 UJ	870 UJ	1000 U	2700 U	1000 U	920 U
4,6-Dinitro-2-methylphenol	UG/KG	1000 UJ	880 UJ	900 UJ	920 UJ	890 UJ	870 UJ	1000 U	2700 UJ	1000 U	920 U
4-Bromophenyl phenyl ether	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-A-F01	CL-71-A-WE1	CL-71-A-WN1	CL-71-A-WS1	CL-71-A-WW1	CL-71-B-F01	CL-71-B-WE2	CL-71-B-WN1	CL-71-B-WS1	CL-71-B-WW1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-A-F01	CL-71-A-WE1	CL-71-A-WN1	CL-71-A-WS1	CL-71-A-WW1	CL-71-B-F01	CL-71-B-WE2	CL-71-B-WN1	CL-71-B-WS1	CL-71-B-WW1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
4-Chloro-3-methylphenol	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
4-Chloroaniline	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
4-Chlorophenyl phenyl ether	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
4-Methylphenol	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
4-Nitroaniline	UG/KG	1000 U	880 U	900 U	920 U	890 U	870 U	1000 U	2700 U	1000 U	920 U
4-Nitrophenol	UG/KG	1000 U	880 U	900 U	920 U	890 U	870 U	1000 U	2700 U	1000 U	920 U
Acenaphthene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	57 J	1100 U	400 U	360 U
Acenaphthylene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	120 J	190 J	400 U	360 U
Acetophenone	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Aniline	UG/KG										
Anthracene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	260 J	320 J	140 J	360 U
Atrazine	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Benzaldehyde	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Benzo(a)anthracene	UG/KG	55 J	350 U	360 U	61 J	41 J	50 J	1500 J	3100	470	560 U
Benzo(a)pyrene	UG/KG	58 J	350 U	360 U	52 J	37 J	45 J	1400 J	2900	400	38 J
Benzo(b)fluoranthene	UG/KG	85 J	350 U	360 U	69 NJ	55 NJ	64 NJ	1600 J	3600	690	54 NJ
Benzo(g,h)perylene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	810 J	1200	180 J	360 U
Benzo(k)fluoranthene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	1200 J	2100	270 J	360 U
Benzoic Acid	UG/KG										
Bis(2-Chloroethoxy)methane	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Bis(2-Chloroethyl)ether	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Bis(2-Chloroisopropyl)ether	UG/KG										
Bis(2-Ethylhexyl)phthalate	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Butylbenzylphthalate	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Caprolactam	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Carbazole	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	120 J	1100 U	400 U	360 U
Chrysene	UG/KG	67 J	350 U	360 U	67 J	52 J	58 J	1800 J	3000	620	47 J
Di-n-butylphthalate	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Di-n-octylphthalate	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Dibenz(a,h)anthracene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	200 J	330 J	61 J	360 U
Dibenzofuran	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Diethyl phthalate	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Dimethylphthalate	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Fluoranthene	UG/KG	120 J	350 U	360 U	110 J	99 J	110 J	2200	4200	740	70 J
Fluorene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	81 J	1100 U	400 U	360 U
Hexachlorobenzene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Hexachlorobutadiene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Hexachlorocyclopentadiene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Hexachloroethane	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Indeno(1,2,3-cd)pyrene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	730 J	1200	190 J	360 U
Isophorone	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
N-Nitrosodiphenylamine	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
N-Nitrosodipropylamine	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Naphthalene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Nitrobenzene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-A-F01	CL-71-A-WE1	CL-71-A-WN1	CL-71-A-WS1	CL-71-A-WW1	CL-71-B-F01	CL-71-B-WE2	CL-71-B-WN1	CL-71-B-WS1	CL-71-B-WW1
	Maxtrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-A-F01	CL-71-A-WE1	CL-71-A-WN1	CL-71-A-WS1	CL-71-A-WW1	CL-71-B-F01	CL-71-B-WE2	CL-71-B-WN1	CL-71-B-WS1	CL-71-B-WW1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pentachlorophenol	UG/KG	1000 U	880 U	900 U	920 U	890 U	870 U	1000 U	2700 U	1000 U	920 U
Phenanthrene	UG/KG	56 J	350 U	360 U	67 J	48 J	56 J	1200	810 J	320 J	360 U
Phenol	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Pyrene	UG/KG	110 J	350 U	360 U	110 J	84 J	98 J	3000	5800	1000	78 J
Pyridino	UG/KG										
Pesticides/PCBs											
4,4'-DDD	UG/KG	4 U	3.5 U	3.6 U	3.7 U	3.5 U	3.5 U	17	3.6 U	40 U	3.6 U
4,4'-DDE	UG/KG	4 U	3.5 U	3.6 U	3.7 U	3.5 U	3.5 U	16 NJ	6.8 J	190	3.6 U
4,4'-DDT	UG/KG	4 U	3.5 U	3.6 U	3.7 U	3.5 U	3.5 U	14 J	3.6 U	82	3.6 U
Aldrin	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Alpha-BHC	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Alpha-Chlordane	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Beta-BHC	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Delta-BHC	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Dieldrin	UG/KG	4 U	3.5 U	3.6 U	3.7 U	3.5 U	3.5 U	4 U	3.6 U	40 U	3.6 U
Endosulfan I	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Endosulfan II	UG/KG	4 U	3.5 U	3.6 U	3.7 U	3.5 U	3.5 U	4 U	3.6 U	40 U	3.6 U
Endosulfan sulfate	UG/KG	4 U	3.5 U	3.6 U	3.7 U	3.5 U	3.5 U	4 U	3.6 U	40 U	3.6 U
Endrin	UG/KG	4 U	3.5 U	3.6 U	3.7 U	3.5 U	3.5 U	4 U	3.6 U	40 U	3.6 U
Endrin aldehyde	UG/KG	4 U	3.5 U	3.6 U	3.7 U	3.5 U	3.5 U	4 U	3.6 U	40 U	3.6 U
Endrin ketone	UG/KG	4 U	3.5 U	3.6 U	3.7 U	3.5 U	3.5 U	4 U	3.6 U	40 U	3.6 U
Gamma-BHC/Lindane	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Gamma-Chlordane	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Heptachlor	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Heptachlor epoxide	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Methoxychlor	UG/KG	20 U	18 U	18 U	19 U	18 U	18 U	21 U	18 U	210 U	19 U
Toxaphene	UG/KG	200 U	180 U	180 U	190 U	180 U	180 U	210 U	180 U	2100 U	190 U
Aroclor-1016	UG/KG	40 U	35 U	36 U	38 U	36 U	35 U	41 U	36 U	41 U	37 U
Aroclor-1221	UG/KG	40 U	35 U	36 U	38 U	36 U	35 U	41 U	36 U	41 U	37 U
Aroclor-1232	UG/KG	40 U	35 U	36 U	38 U	36 U	35 U	41 U	36 U	41 U	37 U
Aroclor-1242	UG/KG	40 U	35 U	36 U	38 U	36 U	35 U	41 U	36 U	41 U	37 U
Aroclor-1248	UG/KG	40 U	35 U	36 U	38 U	36 U	35 U	41 U	36 U	41 U	37 U
Aroclor-1254	UG/KG	40 U	35 U	36 U	38 U	36 U	35 U	41 U	36 U	41 U	37 U
Aroclor-1260	UG/KG	40 U	35 U	36 U	38 U	36 U	35 U	200 J	36 U	41 U	37 U
Metals											
Aluminum	MG/KG	14600 J	6120 J	7660 J	13400 J	10800 J	7920 J	8110 J	13300 J	9640 J	8650 J
Antimony	MG/KG	1.8 J	0.96 J	1.3 J	1.6 J	1.5 J	1 J	11.5 J	1.6 J	3.8 J	0.88 J
Arsenic	MG/KG	4.6	4.3	4.9	5.2	6.2	5.2	6.2 J	5.9	6.7 J	4.9 J
Barium	MG/KG	114 J	54.9 J	47 J	119 J	61.9 J	54.1 J	78.1 J	80.1 J	82.2 J	56.2 J
Beryllium	MG/KG	0.82	0.31	0.42	0.76	0.56	0.46	0.39	0.67	0.51	0.42
Cadmium	MG/KG	0.3 J	0.17 J	0.2 J	0.3 J	0.29 J	0.19 J	0.39	0.27 J	0.39	0.27 J

**Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-A-F01	CL-71-A-WE1	CL-71-A-WN1	CL-71-A-WS1	CL-71-A-WW1	CL-71-B-F01	CL-71-B-WE2	CL-71-B-WN1	CL-71-B-WS1	CL-71-B-WW1
	Maxtrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-A-F01	CL-71-A-WE1	CL-71-A-WN1	CL-71-A-WS1	CL-71-A-WW1	CL-71-B-F01	CL-71-B-WE2	CL-71-B-WN1	CL-71-B-WS1	CL-71-B-WW1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Calcium	MG/KG	6940 J	79800 J	83200 J	10300 J	32200 J	55000 J	36700 J	9130 J	47800 J	54700 J
Chromium	MG/KG	22.7 J	10 J	12.4 J	22.1 J	16.3 J	11.9 J	14 J	19 J	15.5 J	13.7 J
Cobalt	MG/KG	11.4 J	6.1 J	6.4 J	8.8 J	8.4 J	8.5 J	8.2 J	11.2 J	9.2 J	8.1 J
Copper	MG/KG	25.8 J	18.7 J	20.1 J	26.1 J	19.7 J	18.9 J	35.5 J	21.8 J	48.8 J	21.4 J
Cyanide	MG/KG										
Iron	MG/KG	25600	13200	15300	24900	20700	18300	15900 J	22800	20000 J	19700 J
Lead	MG/KG	17.4 J	7.4 J	12.7 J	19.1 J	13.5 J	11.9 J	635 J	17.9 J	452 J	17.9 J
Magnesium	MG/KG	4890 J	15300 J	9380 J	5580 J	8350 J	9620 J	8170 J	4880 J	7260 J	11100 J
Manganese	MG/KG	488 J	373 J	541 J	297 J	476 J	481 J	456 J	473 J	498 J	407 J
Mercury	MG/KG	0.07	0.02 J	0.05	0.04	0.03 J	0.03 J	0.43 J	0.06	1 J	0.02 J
Nickel	MG/KG	35.4 J	18 J	20.5 J	32.6 J	24.1 J	21.2 J	25.3 J	27 J	26.6 J	35 J
Potassium	MG/KG	1620	878	910	1260	965	863	960 J	969	1110 J	869 J
Selenium	MG/KG	0.45 U	0.41 U	0.43 U	0.42 U	0.43 U	0.39 U	0.46 U	0.4 U	0.47 U	0.41 U
Silver	MG/KG	1.6	0.1 U	0.4 J	1.4	0.92	0.41 J	0.74 J	1.2	0.55 J	0.32 J
Sodium	MG/KG	79.7	143	145	60.4	94.6	112	71.6 J	48.4	68.7	94.1 J
Thallium	MG/KG	0.22 U	0.2 U	0.22 U	0.21 U	0.21 U	0.2 U	0.23 U	0.2 U	0.24 U	0.21 U
Vanadium	MG/KG	20.4 J	11.3 J	12.9 J	19.6 J	17.2 J	12.9 J	15 J	19.9 J	24 J	13.4 J
Zinc	MG/KG	88.7	45.3	57.6	81.9	69.8	56.8	128 J	70	83.3 J	56 J

Notes)

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected, the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-WE1	CL-71-C-WE2	CL-71-C-WN1	CL-71-C-WS1	CL-71-C-WW2	CL-71-D-F01	CL-71-D-WE1
	Maxitrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-WE1	CL-71-C-WE2	CL-71-C-WN1	CL-71-C-WS1	CL-71-C-WW2	CL-71-D-F01	CL-71-D-WE1
Sample Depth to Top of Sample ⁽¹⁾		0	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample ⁽¹⁾		0	0	0	0	0	0	0	0	0	0
Sample Date		5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code		SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID		ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics											
1,1,1-Trichloroethane	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
1,1,2,2-Tetrachloroethane	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
1,1,2-Trichloroethane	UG/KG	6 U								5 U	5 U
1,1-Dichloroethane	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
1,1-Dichloroethene	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
1,2,3-Trichloropropane	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U		
1,2,4-Trichlorobenzene	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
1,2-Dibromo-3-chloropropane	UG/KG	6 U								5 U	5 U
1,2-Dibromoethane	UG/KG	6 U								5 U	5 U
1,2-Dichlorobenzene	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
1,2-Dichloroethane	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
1,2-Dichlorobenzene (total)	UG/KG										
1,2-Dichloropropane	UG/KG	6 U								5 U	5 U
1,3-Dichlorobenzene	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
1,3-Dichloropropane	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U		
1,4-Dichlorobenzene	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Acetone	UG/KG	6 U	22 U	22 U	22 U	22 U	22 U	22 U	22 U	5 U	5 U
Benzene	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Bromodichloromethane	UG/KG	6 U								5 U	5 U
Bromoform	UG/KG	6 U								5 U	5 U
Carbon disulfide	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Carbon tetrachloride	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Chlorobenzene	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Chlorodibromomethane	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Chloroethane	UG/KG	6 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	5 U	5 U
Chloroform	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Cis-1,2-Dichloroethane	UG/KG	6 U								5 U	5 U
Cis-1,3-Dichloropropene	UG/KG	6 U								5 U	5 U
Cyclohexane	UG/KG	6 U								5 U	5 U
Dichlorodifluoromethane	UG/KG	6 U								5 U	5 U
Ethyl benzene	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Isopropylbenzene	UG/KG	6 U								5 U	5 U

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Parameter	Units	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
		CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-WE1	CL-71-C-WE2	CL-71-C-WN1	CL-71-C-WS1	CL-71-C-WW2	CL-71-D-F01	CL-71-D-WE1
Matrix	SOIL										
Sample ID		CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-WE1	CL-71-C-WE2	CL-71-C-WN1	CL-71-C-WS1	CL-71-C-WW2	CL-71-D-F01	CL-71-D-WE1
Sample Depth to Top of Sample ⁽¹⁾		0	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample ⁽¹⁾		0	0	0	0	0	0	0	0	0	0
Sample Date		5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code		SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID		ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1	1
		Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Meth/Para Xylene	UG/KG		5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U		
Methyl Acetate	UG/KG	6 U								5 U	5 U
Methyl Tertbutyl Ether	UG/KG	6 U								5 U	5 U
Methyl bromide	UG/KG	6 U								5 U	5 U
Methyl butyl ketone	UG/KG	6 U								5 U	5 U
Methyl chloride	UG/KG	6 U								5 U	5 U
Methyl cyclohexane	UG/KG	6 U								5 U	5 U
Methyl ethyl ketone	UG/KG	6 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	5 U	5 U
Methyl isobutyl ketone	UG/KG	6 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	5 U	5 U
Methylene chloride	UG/KG	11 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Ortho Xylene	UG/KG		5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U		
Styrene	UG/KG	6 U								5 U	5 U
Tetrachloroethane	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Toluene	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Total BTEX	MG/KG										
Total Xylenes	UG/KG	6 U								5 U	5 U
Trans-1,2-Dichloroethene	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Trans-1,3-Dichloropropene	UG/KG	6 U								5 U	5 U
Trichloroethene	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Trichlorofluoromethane	UG/KG	6 U								5 U	5 U
Vinyl chloride	UG/KG	6 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	5 U	5 U
Semivolatile Organics											
1,1'-Biphenyl	UG/KG	390 U								360 U	370 U
1,2,4-Trichlorobenzene	UG/KG										
1,2-Dichlorobenzene	UG/KG										
1,3-Dichlorobenzene	UG/KG										
1,4-Dichlorobenzene	UG/KG										
2,2'-oxybis(1-Chloropropane)	UG/KG	390 U								360 U	370 U
2,4,5-Trichlorophenol	UG/KG	990 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	900 U	940 U
2,4,6-Trichlorophenol	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
2,4-Dichlorophenol	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
2,4-Dimethylphenol	UG/KG	390 U								360 U	370 U
2,4-Dinitrophenol	UG/KG	990 U	1900 U	1900 U	1900 U	1900 U	9200 U	9200 U	1900 U	900 U	940 U
2,4-Dinitrotoluene	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
2,6-Dinitrotoluene	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
2-Chloronaphthalene	UG/KG	390 U								360 U	370 U
2-Chlorophenol	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
2-Methylnaphthalene	UG/KG	390 U	61 J	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
2-Methylphenol	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
2-Nitroaniline	UG/KG	990 U	1900 U	1900 U	1900 U	1900 U	9200 U	9200 U	1900 U	900 U	940 U
2-Nitrophenol	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
3,3'-Dichlorobenzidine	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
3-Nitroaniline	UG/KG	990 U	1900 U	1900 U	1900 U	1900 U	9200 U	9200 U	1900 U	900 U	940 U
4,6-Dinitro-2-methylphenol	UG/KG	990 U								900 U	940 U
4-Bromophenyl phenyl ether	UG/KG	390 U								360 U	370 U

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-WE1	CL-71-C-WE2	CL-71-C-WN1	CL-71-C-WS1	CL-71-C-WW2	CL-71-D-F01	CL-71-D-WE1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-WE1	CL-71-C-WE2	CL-71-C-WN1	CL-71-C-WS1	CL-71-C-WW2	CL-71-D-F01	CL-71-D-WE1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
4-Chloro-3-methylphenol	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
4-Chloroaniline	UG/KG	390 UJ	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
4-Chlorophenyl phenyl ether	UG/KG	390 U								360 U	370 U
4-Methylphenol	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
4-Nitroaniline	UG/KG	990 U								900 U	940 U
4-Nitrophenol	UG/KG	990 U	1900 U	1900 U	1900 U	1900 U	9200 U	9200 U	1900 U	900 U	940 U
Acenaphthene	UG/KG	390 U	360 J	360 U	360 U	360 U	1800 U	1800 U	370 U	40 J	80 J
Acenaphthylene	UG/KG	390 U	360 U	120 J	360 U	360 U	1800	1500 J	44 J	33 J	85 J
Acetophenone	UG/KG	390 U								360 U	370 U
Aniline	UG/KG		360 U	360 U	360 U	360 U	1800 U	1800 U	370 U		
Anthracene	UG/KG	390 U	570	77 J	360 U	360 U	1100 J	5000	370 U	110 J	220 J
Atrazine	UG/KG	390 U								360 U	370 U
Benzaldehyde	UG/KG	390 U								360 U	370 U
Benzo(a)anthracene	UG/KG	390 U	1000	310 J	360 U	360 U	4700	10000	130 J	410	500
Benzo(a)pyrene	UG/KG	390 U	800	500	360 U	360 U	6500	9000	170 J	410	450
Benzo(b)fluoranthene	UG/KG	390 U	570	520	40 J	360 U	5900	6700	140 J	540	640
Benzo(g)h)perylene	UG/KG	390 U	380	590	360 U	360 U	5800	5200	120 J	230 J	300 J
Benzo(k)fluoranthene	UG/KG	390 U	670	460	360 U	360 U	5500	7700	140 J	200 J	250 J
Benzoic Acid	UG/KG		1900 U	1900 U	1900 U	1900 U	9200 U	9200 U	1900 U		
Bis(2-Chloroethoxy)methane	UG/KG	390 U								360 U	370 U
Bis(2-Chloroethyl)ether	UG/KG	390 U								360 U	370 U
Bis(2-Chloroisopropyl)ether	UG/KG										
Bis(2-Ethylhexyl)phthalate	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	83 J
Butylbenzylphthalate	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
Caprolactam	UG/KG	390 U								360 U	370 U
Carbazole	UG/KG	390 U								53 J	110 J
Chrysene	UG/KG	390 U	880	510	45 J	360 U	6300	10000	150 J	410 NJ	490
Di-n-butylphthalate	UG/KG	390 U	360 U	360 U	41 J	70 J	1800 U	1800 U	370 U	360 U	370 U
Di-n-octylphthalate	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
Dibenz(a,h)anthracene	UG/KG	390 U	170 J	140 J	360 U	360 U	1700 J	1900 J	44 J	67 J	75 J
Dibenzofuran	UG/KG	390 U	140 J	360 U	360 U	360 U	1800 U	1400 J	370 U	23 J	41 J
Diethyl phthalate	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
Dimethylphthalate	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
Fluoranthene	UG/KG	390 U	2000	370 J	50 J	360 U	7700	27000	200 J	770	930
Fluorene	UG/KG	390 U	250 J	360 U	360 U	360 U	1800 U	2500	370 U	36 J	72 J
Hexachlorobenzene	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
Hexachlorobutadiene	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
Hexachlorocyclopentadiene	UG/KG	390 U								360 U	370 U
Hexachloroethane	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
Indeno(1,2,3-cd)pyrene	UG/KG	390 U	420 J	450 J	360 U	360 U	4900 J	5200 J	110 J	260 J	300 J
Isophorone	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
N-Nitrosodiphenylamine	UG/KG	390 U								360 U	370 U
N-Nitrosodipropylamine	UG/KG	390 U								360 U	370 U
Naphthalene	UG/KG	390 U	86 J	360 U	360 U	360 U	1800 U	1100 J	370 U	360 U	370 U
Nitrobenzene	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Parameter	Units	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
		CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-WE1	CL-71-C-WE2	CL-71-C-WN1	CL-71-C-WS1	CL-71-C-WW2	CL-71-D-F01	CL-71-D-WE1
Location ID	Matrix	CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-WE1	CL-71-C-WE2	CL-71-C-WN1	CL-71-C-WS1	CL-71-C-WW2	CL-71-D-F01	CL-71-D-WE1
Sample ID	Sample ID	CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-WE1	CL-71-C-WE2	CL-71-C-WN1	CL-71-C-WS1	CL-71-C-WW2	CL-71-D-F01	CL-71-D-WE1
Sample Depth to Top of Sample ⁽¹⁾	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
Sample Date	QC Code	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
Study ID	ENSR IRM	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
ENSR IRM	ENSR IRM	1	1	1	1	1	1	1	1	1	1
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pentachlorophenol	UG/KG	990 U	1900 U	1900 U	1900 U	1900 U	9200 U	9200 U	1900 U	900 U	940 U
Phenanthrene	UG/KG	390 U	1700	71 J	360 U	360 U	1300 J	25000	81 J	290 J	550
Phenol	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
Pyrene	UG/KG	390 U	1500	400	43 J	360 U	8100	20000	200 J	730	860
Pyridine	UG/KG		1900 U	1900 U	1900 U	1900 U	9200 U	9200 U	1900 U		
Pesticides/PCBs											
4,4'-DDD	UG/KG	3.9 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U	3.5 U	4.2
4,4'-DDE	UG/KG	3.9 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U	9.2 J	29 J
4,4'-DDT	UG/KG	3.9 U	22 U	22 U	22 U	22 U	59	22 J	22 U	6.8 NJ	17
Aldrin	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Alpha-BHC	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Alpha-Chlordane	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Beta-BHC	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Delta-BHC	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Dieldrin	UG/KG	3.9 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U	3.5 U	3.8 U
Endosulfan I	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Endosulfan II	UG/KG	3.9 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U	3.5 U	3.8 U
Endosulfan sulfate	UG/KG	3.9 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U	3.5 U	3.8 U
Endrin	UG/KG	3.9 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U	3.5 U	3.8 U
Endrin aldehyde	UG/KG	3.9 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U	3.5 U	3.8 U
Endrin ketone	UG/KG	3.9 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U	3.5 U	3.8 U
Gamma-BHC/Endane	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Gamma-Chlordane	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Heptachlor	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Heptachlor epoxide	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Methoxychlor	UG/KG	20 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	18 U	19 U
Toxaphene	UG/KG	200 U	220 U	220 U	220 U	220 U	210 U	210 U	220 U	180 U	190 U
Amelcor-1016	UG/KG	40 U	36 U	36 U	36 U	36 U	36 U	36 U	37 U	36 U	38 U
Amelcor-1221	UG/KG	40 U	36 U	36 U	36 U	36 U	36 U	36 U	37 U	36 U	38 U
Amelcor-1232	UG/KG	40 U	36 U	36 U	36 U	36 U	36 U	36 U	37 U	36 U	38 U
Amelcor-1242	UG/KG	40 U	36 U	36 U	36 U	36 U	36 U	36 U	37 U	36 U	38 U
Amelcor-1248	UG/KG	40 U	36 U	36 U	36 U	36 U	36 U	36 U	37 U	36 U	38 U
Amelcor-1254	UG/KG	40 U	36 U	36 U	36 U	36 U	36 U	36 U	37 U	36 U	38 U
Amelcor-1260	UG/KG	40 U	36 U	36 U	36 U	36 U	36 U	120	37 U	36 U	38 U
Metals											
Aluminum	MG/KG	10600 J	10300	12200	12600	13500	10000	6370	12100	10200 J	12900 J
Antimony	MG/KG	1.4 J	3.1 UJ	3.2 UJ	3.1 UJ	3.3 UJ	3.2 UJ	3.2 UJ	3.3 UJ	1.4 J	2.2 J
Arsenic	MG/KG	6.2 J	5.1	6.4	4.5	5.1	8	11.8	5.3	5.7	6.9
Barium	MG/KG	70.3 J	86.7	68.3	80	115	114	59.2	75.4	64.4 J	88.9 J
Beryllium	MG/KG	0.55	0.33	0.35	0.46	0.44	0.31	0.11	0.4	0.53	0.63
Cadmium	MG/KG	0.34 J	0.26 U	0.27 U	0.26 U	0.32 J	0.7	0.49 J	0.28 U	0.24 J	0.28 J

**Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-WE1	CL-71-C-WE2	CL-71-C-WN1	CL-71-C-WS1	CL-71-C-WW2	CL-71-D-F01	CL-71-D-WE1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-WE1	CL-71-C-WE2	CL-71-C-WN1	CL-71-C-WS1	CL-71-C-WW2	CL-71-D-F01	CL-71-D-WE1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Calcium	MG/KG	33800 J	22400	6860	11600	14100	47400	66300	11800	29500	30800
Chromium	MG/KG	15.3 J	16.9	21	18.8	19.5	37.1	18.5	19.3	15.7 J	19.2 J
Cobalt	MG/KG	9.6 J	9.6	11.1	8.6	11.5	10.3	8.2	10.6	8.9	10.3
Copper	MG/KG	20.1 J	22.2	21.7	17.2	16.4	67.7	32.3	21.2	22 J	29.4 J
Cyanide	MG/KG										
Iron	MG/KG	20900 J	21300	26300	21800	25500	28300	15600	23300	20100 J	24400 J
Lead	MG/KG	14.3 J	17.1	18.6	21.5	12.4	169	188	16.1	14.7 J	48.3 J
Magnesium	MG/KG	9110 J	6630	4440	3800	4400	4940	14300	5490	8470 J	7320 J
Manganese	MG/KG	575 J	516	538	467	1040	641	460	488	539 J	634 J
Mercury	MG/KG	0.03 J	0.05	0.03	0.05	0.03	0.11	0.04	0.04	0.07	0.07
Nickel	MG/KG	25.7 J	27.1	31.3	24.2	26.8	28.6	29.6	30.3	25.1 J	29.2 J
Potassium	MG/KG	918 J	1050	1170	918	1090	1150	1020	1020	886	1210
Selenium	MG/KG	0.46 U	0.52 U	0.53 U	0.52 U	0.55 U	0.53 U	1.3	0.56 U	0.37 U	0.41 U
Silver	MG/KG	0.75 J	0.52 U	0.53 U	0.52 U	0.55 U	0.53 U	0.53 U	0.56 U	0.73	1.1
Sodium	MG/KG	73.8 J	65.8	42.5 J	45.3 J	43.1 J	141	139	40.3 J	76.2	62.5
Thallium	MG/KG	0.23 U	0.71 J	0.67 J	0.71 J	1 J	1 J	0.68 J	0.75 J	0.19 U	0.21 U
Vanadium	MG/KG	16.5 J	16.8	20.1	19.9	21.5	19.4	16.4	20	15.7 J	19.2 J
Zinc	MG/KG	64.5 J	62.6	89.9	69.3	75.7	161	357	66.5	62.8 J	95.4 J

Note(s):

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected; the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Parameter	Units	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
		CL-71-D-WN1	CL-71-D-WS1	CL-71-D-WW3	CL-71-E1-F01	CL-71-E1-WE1	CL-71-E1-WN1	CL-71-E1-WS1	CL-71-E1-WW1	CL-71-E2-F01	CL-71-E2-WE1
Location ID	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	CL-71-D-WN1	CL-71-D-WS1	CL-71-D-WW3	CL-71-E1-F01	CL-71-E1-WE1	CL-71-E1-WN1	CL-71-E1-WS1	CL-71-E1-WW1	CL-71-E2-F01	CL-71-E2-WE1	
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	
Value (Q)	1	1	1	1	1	1	1	1	1	1	
Volatile Organics											
1,1,1-Trichloroethane	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6 U
1,1,2,2-Tetrachloroethane	UG/KG	5 UJ	5 UJ		5.5 U	5.5 U	5 UJ	5 R	5 R	6 U	6 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5 U	5 U		5.5 U	5.5 U	5 UJ	5 UJ	5 UJ	6 U	6 U
1,1,2-Trichloroethane	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6 U
1,1-Dichloroethane	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6 U
1,1-Dichloroethene	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6 U
1,2,3-Trichloropropane	UG/KG				5.5 U	5.5 U				6 U	6 U
1,2,4-Trichlorobenzene	UG/KG	5 UJ	5 UJ		5.5 U	5.5 U	5 UJ	5 R	5 R	6 U	6 U
1,2-Dibromo-1-chloropropane	UG/KG	5 UJ	5 UJ				5 UJ	5 R	5 R	6 U	6 U
1,2-Dibromoethane	UG/KG	5 U	5 U				5 U	5 UJ	5 UJ	6 U	6 U
1,2-Dichlorobenzene	UG/KG	5 UJ	5 UJ		5.5 U	5.5 U	5 UJ	5 R	5 R	6 U	6 U
1,2-Dichloroethane	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6 U
1,2-Dichloroethene (total)	UG/KG										
1,2-Dichloropropane	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	6 U
1,3-Dichlorobenzene	UG/KG	5 UJ	5 UJ		5.5 U	5.5 U	5 UJ	5 R	5 R	6 U	6 U
1,3-Dichloropropane	UG/KG				5.5 U	5.5 U				6 U	6 U
1,4-Dichlorobenzene	UG/KG	5 UJ	5 UJ		5.5 U	5.5 U	5 UJ	5 R	5 R	6 U	6 U
Acetone	UG/KG	5 U	5 U		22 U	22 U	30 J	35 J	37 J	4 NJ	24 UJ
Benzene	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6 U
Bromodichloromethane	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	6 U
Bromoform	UG/KG	5 U	5 U				5 U	5 UJ	5 UJ	6 U	6 U
Carbon disulfide	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6 U
Carbon tetrachloride	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6 U
Chlorobenzene	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 UJ	5 UJ	6 U	6 U
Chlorodibromomethane	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 UJ	5 UJ	6 U	6 U
Chloroethane	UG/KG	5 U	5 U		11 U	11 U	5 U	5 U	5 U	6 U	12 U
Chloroform	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6 U
Cis-1,2-Dichloroethene	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	6 U
Cis-1,3-Dichloropropene	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	6 U
Cyclohexane	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	6 U
Dichlorodifluoromethane	UG/KG	5 U	5 U				5 UJ	5 UJ	5 UJ	6 U	6 U
Ethyl benzene	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 UJ	5 UJ	6 U	6 U
Isopropylbenzene	UG/KG	5 U	5 U				5 U	5 UJ	5 UJ	6 U	6 U

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-D-WN1	CL-71-D-WS1	CL-71-D-WW3	CL-71-E1-F01	CL-71-E1-WE1	CL-71-E1-WN1	CL-71-E1-WS1	CL-71-E1-WW1	CL-71-E2-F01	CL-71-E2-WE1
	Maxtrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-D-WN1	CL-71-D-WS1	CL-71-D-WW3	CL-71-E1-F01	CL-71-E1-WE1	CL-71-E1-WN1	CL-71-E1-WS1	CL-71-E1-WW1	CL-71-E2-F01	CL-71-E2-WE1
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	0
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Meta/Para Xylene	UG/KG				5.5 U	5.5 U					6.1 U
Methyl Acetate	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Methyl Tertiary Ether	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Methyl bromide	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Methyl butyl ketone	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Methyl chloride	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Methyl cyclohexane	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Methyl ethyl ketone	UG/KG	5 U	5 U		11 U	11 U	5 U	5 U	5 U	6 U	12 U
Methyl isobutyl ketone	UG/KG	5 U	5 U		11 U	11 U	5 U	5 U	5 U	6 U	12 U
Methylene chloride	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	6 U	1 U	6.1 U
Ortho Xylene	UG/KG				5.5 U	5.5 U					6.1 U
Styrene	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Tetrachloroethene	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6.1 U
Toluene	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6.1 U
Total BTEX	MG/KG										
Total Xylenes	UG/KG	5 U	5 U				5 U	5 R	5 R	6 U	
Trans-1,2-Dichloroethene	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6.1 U
Trans-1,3-Dichloropropene	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Trichloroethene	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6.1 U
Trichlorofluoromethane	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Vinyl chloride	UG/KG	5 U	5 U		11 U	11 U	5 U	5 U	5 U	6 U	12 U
Semivolatile Organics											
1,1'-Biphenyl	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
1,2,4-Trichlorobenzene	UG/KG										
1,2-Dichlorobenzene	UG/KG										
1,3-Dichlorobenzene	UG/KG										
1,4-Dichlorobenzene	UG/KG										
2,2'-oxybis(1-Chloropropane)	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
2,4,5-Trichlorophenol	UG/KG	880 U	900 U	5500 U	360 U	360 U	920 U	900 U	870 U	970 U	2000 U
2,4,6-Trichlorophenol	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
2,4-Dichlorophenol	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
2,4-Dimethylphenol	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
2,4-Dinitrophenol	UG/KG	880 U	900 U	29000 U	1900 U	1900 U	920 U	900 U	870 U	970 U	10000 U
2,4-Dinitrotoluene	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
2,6-Dinitrotoluene	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
2-Chloronaphthalene	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
2-Chlorophenol	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
2-Methylnaphthalene	UG/KG	81 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
2-Methylphenol	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
2-Nitroaniline	UG/KG	880 U	900 U	29000 U	1900 U	1900 U	920 U	900 U	870 U	970 U	10000 U
2-Nitrophenol	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
3,3'-Dichlorobenzidine	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
3-Nitroaniline	UG/KG	880 U	900 U	29000 U	1900 U	1900 U	920 U	900 U	870 U	970 U	10000 U
4,6-Dinitro-2-methylphenol	UG/KG	880 U	900 U				920 U	900 U	870 U	970 U	
4-Bromophenyl phenyl ether	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	

**Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Parameter	Units	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
		CL-71-D-WN1	CL-71-D-WS1	CL-71-D-WW3	CL-71-E1-F01	CL-71-E1-WE1	CL-71-E1-WN1	CL-71-E1-WS1	CL-71-E1-WW1	CL-71-E2-F01	CL-71-E2-WE1
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	CL-71-D-WN1	CL-71-D-WS1	CL-71-D-WW3	CL-71-E1-F01	CL-71-E1-WE1	CL-71-E1-WN1	CL-71-E1-WS1	CL-71-E1-WW1	CL-71-E2-F01	CL-71-E2-WE1	
Sample Depth to Top of Sample (ft)	0	0	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample (ft)	0	0	0	0	0	0	0	0	0	0	
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
4-Chloro-3-methylphenol	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
4-Chloroaniline	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
4-Chlorophenyl phenyl ether	UG/KG	350 U	360 U		360 U	360 U	370 U	360 U	340 U	390 U	2000 U
4-Methylphenol	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
4-Nitroaniline	UG/KG	880 U	900 U		900 U	900 U	920 U	900 U	870 U	970 U	
4-Nitrophenol	UG/KG	880 U	900 U	29000 U	1900 U	1900 U	920 U	900 U	870 U	970 U	10000 U
Acenaphthene	UG/KG	340 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	420 J
Acenaphthylene	UG/KG	39 J	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	1200 J
Acetophenone	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
Aniline	UG/KG			5500 U	360 U	360 U					2000 U
Anthracene	UG/KG	640	360 U	5500 U	360 U	360 U	45 J	360 U	36 J	94 J	1800 J
Atrazine	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
Benzaldehyde	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
Benzo(a)anthracene	UG/KG	1300	40 J	1600 J	360 U	360 U	300 J	130 J	140 J	330 J	9000
Benzo(a)pyrene	UG/KG	1100	51 J	1500 J	360 U	360 U	390	150 J	180 J	250 J	8800
Benzo(b)fluoranthene	UG/KG	1500	83 J	1300 J	360 U	360 U	720	310 J	400	380 J	7400
Benzo(ghi)perylene	UG/KG	530	40 J	1000 J	360 U	360 U	260 J	110 J	130 J	110 J	5300
Benzo(k)fluoranthene	UG/KG	560	360 U	1300 J	360 U	360 U	370	170 J	190 J	170 J	8000
Benzoic Acid	UG/KG			29000 U	1900 U	1900 U					10000 U
Bis(2-Chloroethoxy)methane	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
Bis(2-Chloroethyl)ether	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
Bis(2-Chloroisopropyl)ether	UG/KG										
Bis(2-Ethylhexyl)phthalate	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Butylbenzylphthalate	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Caprolactam	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
Carbazole	UG/KG	540	360 U				370 U	360 U	340 U	77 J	
Chrysene	UG/KG	1300	49 J	2000 J	360 U	360 U	490	240 J	280 J	360 J	10000
Di-n-butylphthalate	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Di-n-octylphthalate	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Dibenz(a,h)anthracene	UG/KG	160 J	360 U	5500 U	360 U	360 U	65 J	360 U	340 U	390 U	2000 J
Dibenzofuran	UG/KG	240 J	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	210 J
Diethyl phthalate	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Dimethylphthalate	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Fluoranthene	UG/KG	3600	82 J	3900 J	360 U	360 U	440	280 J	270 J	690	22000
Fluorene	UG/KG	350 J	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	540 J
Hexachlorobenzene	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2600 U
Hexachlorobutadiene	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Hexachlorocyclopentadiene	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
Hexachloroethane	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Indeno(1,2,3-cd)pyrene	UG/KG	630	39 J	970 J	360 U	360 U	250 J	100 J	130 J	110 J	5400 J
Isochlorone	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
N-Nitrosodiphenylamine	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
N-Nitrosodipropylamine	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
Naphthalene	UG/KG	250 J	360 U	1000 J	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Nitrobenzene	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
Location ID	CL-71-D-WN1	CL-71-D-WS1	CL-71-D-WW3	CL-71-E1-F01	CL-71-E1-WE1	CL-71-E1-WN1	CL-71-E1-WS1	CL-71-E1-WW1	CL-71-E2-F01	CL-71-E2-WE1	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample ID	CL-71-D-WN1	CL-71-D-WS1	CL-71-D-WW3	CL-71-E1-F01	CL-71-E1-WE1	CL-71-E1-WN1	CL-71-E1-WS1	CL-71-E1-WW1	CL-71-E2-F01	CL-71-E2-WE1	
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Pentachlorophenol	UG/KG	880 U	900 U	29000 U	1900 U	1900 U	920 U	900 U	870 U	970 U	10000 U
Phenanthrene	UG/KG	2700	34 J	2100 J	360 U	360 U	60 J	78 J	60 J	400	12000
Phenol	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Pyrene	UG/KG	2800	77 J	2700 J	360 U	360 U	440	250 J	250 J	730	17000
Pyridine	UG/KG			29000 U	1900 U	1900 U					10000 U
Pesticides/PCBs											
4,4'-DDD	UG/KG	3.5 U	35 U	37 U	22 U	22 U	4.7 NJ	3.6 U	3.8 J	3.9 J	20 U
4,4'-DDE	UG/KG	12 NJ	170	37 U	22 U	22 U	3.7 U	3.6 U	3.4 U	8.3 NJ	20 U
4,4'-DDT	UG/KG	7.7 J	54	110	22 U	22 U	7.2	3.6 U	3.4 U	9 J	20 U
Aldrin	UG/KG	1.8 U	18 U	19 U	11 U	11 U	1.9 U	1.8 U	1.8 U	2 U	10 U
Alpha-BHC	UG/KG	1.8 UJ	18 UJ	19 U	11 U	11 U	1.9 U	1.8 U	1.8 U	2 U	10 U
Alpha-Chlordane	UG/KG	1.8 U	18 U	19 U	11 U	11 U	1.9 U	1.8 U	1.8 U	2 U	10 U
Beta-BHC	UG/KG	1.8 U	18 U	19 U	11 U	11 U	1.9 U	1.8 U	1.8 U	2 U	10 U
Delta-BHC	UG/KG	1.8 U	18 U	19 U	11 U	11 U	1.9 U	1.8 U	1.8 U	2 U	10 U
Dieldrin	UG/KG	3.5 U	35 U	37 U	22 U	22 U	3.7 U	3.6 U	3.4 U	3.8 U	20 U
Endosulfan I	UG/KG	1.8 U	18 U	19 U	11 U	11 U	1.9 U	1.8 U	1.8 U	2 U	10 U
Endosulfan II	UG/KG	3.5 U	35 U	37 U	22 U	22 U	3.7 U	3.6 U	3.4 U	3.8 U	20 U
Endosulfan sulfate	UG/KG	3.5 U	35 U	37 U	22 U	22 U	3.7 U	3.6 U	3.4 U	3.8 U	20 U
Endrin	UG/KG	3.5 U	35 U	37 U	22 U	22 U	3.7 U	3.6 U	3.4 U	3.8 U	20 U
Endrin aldehyde	UG/KG	3.5 U	35 U	37 U	22 U	22 U	3.7 U	3.6 U	3.4 U	3.8 U	20 U
Endrin ketone	UG/KG	3.5 U	35 U	37 U	22 U	22 U	3.7 U	3.6 U	3.4 U	3.8 U	20 U
Gamma-BHC/Lindane	UG/KG	1.8 U	18 UJ	19 U	11 U	11 U	1.9 U	1.8 U	1.8 U	2 U	10 U
Gamma-Chlordane	UG/KG	1.8 U	18 U	19 U	11 U	11 U	1.9 U	1.8 U	1.8 U	2 U	10 U
Heptachlor	UG/KG	1.8 U	18 U	19 U	11 U	11 U	1.9 U	1.8 U	1.8 U	2 U	10 U
Heptachlor epoxide	UG/KG	1.8 U	18 U	19 U	11 U	11 U	1.9 U	1.8 U	3.2 NJ	2 U	10 U
Methoxychlor	UG/KG	18 U	180 U	190 U	110 U	110 U	19 U	18 U	18 U	20 U	100 U
Toxaphene	UG/KG	180 U	1800 U	370 U	220 U	220 U	190 U	180 U	180 U	200 U	200 U
Aroclor-1016	UG/KG	36 U	36 U	37 U	36 U	36 U	37 U	36 U	35 U	39 U	40 U
Aroclor-1221	UG/KG	36 U	36 U	37 U	36 U	36 U	37 U	36 U	35 U	39 U	40 U
Aroclor-1232	UG/KG	36 U	36 U	37 U	36 U	36 U	37 U	36 U	35 U	39 U	40 U
Aroclor-1242	UG/KG	36 U	36 U	37 U	36 U	36 U	37 U	36 U	35 U	39 U	40 U
Aroclor-1248	UG/KG	36 U	36 U	37 U	36 U	36 U	37 U	36 U	35 U	39 U	40 U
Aroclor-1254	UG/KG	36 U	36 U	37 U	36 U	36 U	37 U	36 U	35 U	39 U	40 U
Aroclor-1260	UG/KG	36 U	36 U	80	36 U	36 U	37 U	36 U	35 U	39 U	40 U
Metals											
Aluminum	MG/KG	12300 J	11900 J	6680	13800	13000	14300 J	13200 J	13600 J	12600 J	12900
Antimony	MG/KG	2.1 J	1.4 J	6.9	3.5 UJ	3.2 UJ	1.5 J	1.8 J	2.3 J	1.2 J	3.6 UJ
Arsenic	MG/KG	6.9	6.4	4.5	5.7	5.4	6.7	6.6	6.6	7.1 J	5.2 J
Barium	MG/KG	85.7 J	82.6 J	59.9	89.4	85.4	136 J	87.7 J	92.6 J	79.7 J	72.4
Beryllium	MG/KG	0.65	0.6	0.13	0.51	0.46	0.69	0.71	0.71	0.64	0.36
Cadmium	MG/KG	0.37	0.26 J	0.42 J	0.27 U	0.27 U	0.36	0.29 J	0.3 J	0.31 J	0.3 U

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-D-WN1	CL-71-D-WS1	CL-71-D-WW3	CL-71-E1-F01	CL-71-E1-WE1	CL-71-E1-WN1	CL-71-E1-WS1	CL-71-E1-WW1	CL-71-E2-F01	CL-71-E2-WE1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-D-WN1	CL-71-D-WS1	CL-71-D-WW3	CL-71-E1-F01	CL-71-E1-WE1	CL-71-E1-WN1	CL-71-E1-WS1	CL-71-E1-WW1	CL-71-E2-F01	CL-71-E2-WE1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Calcium	MG/KG	31000	26800	59600	9420	9090	7460 J	7370 J	11500 J	21300 J	22100
Chromium	MG/KG	18.8 J	16.9 J	14.9	20.6	19.1	20.5 J	19.1 J	19.6 J	19.1 J	19.3
Cobalt	MG/KG	10.4	9.7	6.3	12.4	11.2	11.1 J	10.4 J	9.3 J	10.3 J	11.1
Copper	MG/KG	26.9 J	25.6 J	61.4	18.3	16.2	22.4 J	20.1 J	24.5 J	25.1 J	17.6
Cyanide	MG/KG										
Iron	MG/KG	23300 J	22500 J	15000	26100	24000	25300	24300	24000	26000 J	23700 J
Lead	MG/KG	42.8 J	17.5 J	568	12.2	12.1	18.7 J	16.8 J	25.1 J	28.7 J	11.4
Magnesium	MG/KG	6620 J	8450 J	11800	4370	3800	4220 J	3980 J	3890 J	6420 J	4320
Manganese	MG/KG	563 J	582 J	296	753	741	737 J	742 J	679 J	621 J	647
Mercury	MG/KG	0.08	0.04	0.3	0.03	0.04	0.1	0.06	0.04	0.04 J	0.04 J
Nickel	MG/KG	28.1 J	25.6 J	19.4	29.1	25.4	26.7 J	24.5 J	24.3 J	30.8 J	26.4
Potassium	MG/KG	1120	1020	834	961	901	1150	815	901	1020 J	859
Selenium	MG/KG	0.38 U	0.38 U	0.54 U	0.55 U	0.54 U	0.44 U	0.4 U	0.4 U	0.47 U	0.6 U
Silver	MG/KG	0.86	0.96	0.55 U	0.55 U	0.54 U	1.8	1.7	1.6	1 J	0.6 U
Sodium	MG/KG	67.8	65.8	77.9	33.2 J	35.6 J	53.9	46.4	51.6	51.1	43.8 J
Thallium	MG/KG	0.19 U	0.19 U	0.55 U	0.95 J	1.1 J	0.22 U	0.2 U	0.2 U	0.23 U	0.64 J
Vanadium	MG/KG	20.8 J	18.7 J	15.7	20	19.8	20.6 J	19.1 J	20 J	18.9 J	19.3
Zinc	MG/KG	81.6 J	63 J	157 J	75.4	66	76.3	69.2	83.1	73.4 J	68.6 J

Notes:

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.
- U = compound was not detected
- J = the reported value is an estimated concentration
- UJ = the compound was not detected, the associated reporting limit is approximate
- R = the data was rejected in the data validating process
- NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-F01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	SS71-1	SS71-10
	Maximix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-F01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	71013	71017
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0.2	0.2
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	11/19/1997	11/19/1997
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	RI PHASE 1 STEP 1	RI PHASE 1 STE
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value
Volatle Organics											
1,1,1-Trichloroethane	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12
1,1,2,2-Tetrachloroethane	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U		
1,1,2-Trichloroethane	UG/KG	6 U								13 U	12
1,1-Dichloroethane	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12
1,1-Dichloroethene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12
1,2,3-Trichloropropane	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U		
1,2,4-Trichlorobenzene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U		
1,2-Dibromo-3-chloropropane	UG/KG	6 U									
1,2-Dibromoethane	UG/KG	6 U									
1,2-Dichlorobenzene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U		
1,2-Dichloroethane	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12
1,2-Dichloroethene (total)	UG/KG									13 U	12
1,2-Dichloropropane	UG/KG	6 U								13 U	12
1,3-Dichlorobenzene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U		
1,3-Dichloropropane	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U		
1,4-Dichlorobenzene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U		
Acetone	UG/KG	6 U	23 U	24 U	24 U	23 U	23 U	24 U	24 U	13 U	12
Benzene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	2 U	12
Bromodichloromethane	UG/KG	6 U								13 U	12
Bromoform	UG/KG	6 U								13 U	12
Carbon disulfide	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12
Carbon tetrachloride	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12
Chlorobenzene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12
Chlorodibromomethane	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12
Chloroethane	UG/KG	6 U	12 U	12 U	12 U	11 U	12 U	12 U	12 U	13 U	12
Chloroform	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12
Cis-1,2-Dichloroethane	UG/KG	6 U									
Cis-1,3-Dichloropropene	UG/KG	6 U								13 U	12
Cyclohexane	UG/KG	6 U									
Dichlorodifluoromethane	UG/KG	6 U									
Ethyl benzene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12
Isopropylbenzene	UG/KG	6 U									

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Parameter	Units	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
		CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-F01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	SS71-1	SS71-10
Location ID		CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-F01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	SS71-1	SS71-10
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID		CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-F01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	71013	71017
Sample Depth to Top of Sample ¹¹¹		0	0	0	0	0	0	0	0	0	0
Sample Depth to Bottom of Sample ¹¹¹		0	0	0	0	0	0	0	0	0.2	0.2
Sample Date		5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	11/19/1997	11/19/1997
QC Code		SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID		ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	RI PHASE 1 STEP 1	RI PHASE 1 STE
		1	1	1	1	1	1	1	1		
		Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value
Meta-Para Xylene	UG/KG		5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U		
Methyl Acetate	UG/KG	6 U									
Methyl Tertbutyl Ether	UG/KG	6 U									
Methyl bromide	UG/KG	6 UJ								13 U	12
Methyl butyl ketone	UG/KG	6 U								13 U	12
Methyl chloride	UG/KG	6 U								13 U	12
Methyl cyclohexane	UG/KG	6 U									
Methyl ethyl ketone	UG/KG	6 U	12 U	12 U	12 U	11 U	12 U	12 U	12 U	13 U	12
Methyl isobutyl ketone	UG/KG	6 U	12 U	12 U	12 U	11 U	12 U	12 U	12 U	13 U	12
Methylene chloride	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	2 J	12
Ortho Xylene	UG/KG		5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U		
Styrene	UG/KG	6 U								13 U	12
Tetrachloroethene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12
Toluene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	4 J	12
Total BTEX	MG/KG										
Total Xylenes	UG/KG	6 U								13 U	12
Trans-1,2-Dichloroethene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U		
Trans-1,3-Dichloropropene	UG/KG	6 U								13 U	12
Trichloroethene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12
Trichlorofluoromethane	UG/KG	6 UJ									
Vinyl chloride	UG/KG	6 U	12 U	12 U	12 U	11 U	12 U	12 U	12 U	13 U	12
Semivolatile Organics											
1,1'-Biphenyl	UG/KG	400 U									
1,2,4-Trichlorobenzene	UG/KG									300 U	93
1,2-Dichlorobenzene	UG/KG									300 U	93
1,3-Dichlorobenzene	UG/KG									300 U	93
1,4-Dichlorobenzene	UG/KG									300 U	93
2,2'-oxybis(1-Chloropropane)	UG/KG	400 U									
2,4,5-Trichlorophenol	UG/KG	1000 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	720 U	220
2,4,6-Trichlorophenol	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
2,4-Dichlorophenol	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
2,4-Dimethylphenol	UG/KG	400 U								300 U	93
2,4-Dinitrophenol	UG/KG	1000 UJ	9900 U	2000 U	2000 UJ	1900 UJ	2000 UJ	2000 UJ	6000 U	720 U	220
2,4-Dinitrotoluene	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
2,6-Dinitrotoluene	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
2-Chloronaphthalene	UG/KG	400 U								300 U	93
2-Chlorophenol	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
2-Methylnaphthalene	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	72 U	8.6
2-Methylphenol	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
2-Nitroaniline	UG/KG	1000 U	9900 U	2000 U	2000 U	1900 U	2000 U	2000 U	6000 U	720 U	220
2-Nitrophenol	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
3,3'-Dichlorobenzidine	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
3-Nitroaniline	UG/KG	1000 U	9900 U	2000 U	2000 U	1900 U	2000 U	2000 U	6000 U	720 U	220
4,6-Dinitro-2-methylphenol	UG/KG	1000 U								720 U	220
4-Bromophenyl phenyl ether	UG/KG	400 U								300 U	93

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
Location ID	CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-F01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	SS71-1	SS71-10	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample ID	CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-F01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	71013	71017	
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0.2	0.2	
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	11/19/1997	11/19/1997	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	RI PHASE I STEP I	RI PHASE I STEP I	
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value	
4-Chloro-3-methylphenol	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
4-Chloroaniline	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
4-Chlorophenyl phenyl ether	UG/KG	400 U								300 U	93
4-Methylphenol	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
4-Nitroaniline	UG/KG	1000 U								720 U	220
4-Nitrophenol	UG/KG	1000 U	9900 U	2000 U	2000 U	1900 U	2000 U	2000 U	6000 U	720 U	220
Aconaphthene	UG/KG	400 U	1400 J	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	22
Acenaphthylene	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
Acetophenone	UG/KG	400 U									
Aniline	UG/KG		1900 U	390 U	390 U	370 U	380 U	400 U	1200 U		
Anthracene	UG/KG	400 U	3900	390 U	390 U	370 U	380 U	400 U	1200 U	68 J	47
Atrazine	UG/KG	400 U									
Benzaldehyde	UG/KG	400 U									
Benzo(a)anthracene	UG/KG	400 U	9100	390 U	390 U	370 U	380 U	400 U	240 J	500	220
Benzo(a)pyrene	UG/KG	400 U	6100	390 U	390 U	370 U	380 U	400 U	250 J	550	220
Benzo(h)fluoranthene	UG/KG	400 U	5000	390 U	390 U	370 U	380 U	400 U	300 J	750	280
Benzo(g)h)perylene	UG/KG	400 U	3300	390 U	390 U	370 U	380 U	400 U	230 J	370	140
Benzo(k)fluoranthene	UG/KG	400 U	5500	390 U	390 U	370 U	380 U	400 U	290 J	750	250
Benzoic Acid	UG/KG		9900 U	2000 U	2000 U	1900 U	2000 U	2000 U	6000 U		
Bis(2-Chloroethoxy)methane	UG/KG	400 U								300 U	93
Bis(2-Chloroethyl)ether	UG/KG	400 U								300 U	93
Bis(2-Chloroisopropyl)ether	UG/KG	400 U								300 U	93
Bis(2-Ethylhexyl)phthalate	UG/KG	400 U	1900 U	390 U	390 U	370 U	39 J	400 U	1200 U	300 U	93
Butylbenzylphthalate	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
Caprolactam	UG/KG	400 U									
Carbazole	UG/KG	400 U								110 J	75
Chrysene	UG/KG	400 U	8800 J	390 U	390 U	370 U	380 U	43 J	370 J	930	290
Di-n-butylphthalate	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
Di-n-octylphthalate	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
Dibenz(a,h)anthracene	UG/KG	400 U	1400 J	390 U	390 U	370 U	380 U	400 U	1200 U	130 J	51
Dibenzofuran	UG/KG	400 U	260 J	390 U	390 U	370 U	380 U	400 U	1200 U	100 J	13
Diethyl phthalate	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
Dimethylphthalate	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
Fluoranthene	UG/KG	400 U	22000	390 U	390 U	370 U	380 U	58 J	640 J	1100	480
Fluorene	UG/KG	400 U	770 J	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	18
Hexachlorobenzene	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
Hexachlorobutadiene	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
Hexachlorocyclopentadiene	UG/KG	400 U								300 U	93
Hexachloroethane	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
Indeno(1,2,3-cd)pyrene	UG/KG	400 U	3300 J	390 U	390 U	370 U	380 U	400 U	190 J	360	140
Isophorone	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
N-Nitrosodiphenylamine	UG/KG	400 U								300 U	93
N-Nitrosodipropylamine	UG/KG	400 U								300 U	93
Naphthalene	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	78 J	93
Nitrobenzene	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-F01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	SS71-1	SS71-10
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-F01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	71013	71017
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0.2	0.2
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	11/19/1997	11/19/1997
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
		1	1	1	1	1	1	1	1		
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value
Pentachlorophenol	UG/KG	1000 U	9900 U	2000 U	2000 U	1900 U	2000 U	2000 U	6000 U	720 U	220
Phenanthrene	UG/KG	400 U	15000	390 U	390 U	370 U	380 U	400 U	210 U	430	210
Phenol	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93
Pyrene	UG/KG	400 U	17000	390 U	390 U	370 U	380 U	400 U	400 U	900	380
Pyridine	UG/KG		9900 U	2000 U	2000 U	1900 U	2000 U	2000 U	6000 U		
Pesticides/PCBs											
4,4'-DDD	UG/KG	4 U	19 U	20 U	20 U	19 U	19 U	20 U	19 U	5.9	4.6
4,4'-DDE	UG/KG	4 U	19 U	20 U	20 U	19 U	19 U	20 U	19 U	88	22
4,4'-DDT	UG/KG	4 U	19 U	120	20 U	19 U	19 U	20 U	19 U	54	25
Aldrin	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	2.3 U	2.4
Alpha-BHC	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	2.2 U	2.4
Alpha-Chlordane	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	2.3 U	2.4
Beta-BHC	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	2.3 U	2.4
Delta-BHC	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	2.3 U	2.4
Dieldrin	UG/KG	4 U	19 U	20 U	20 U	19 U	19 U	20 U	19 U	4.4 U	4.5
Endosulfan I	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	2.3 U	2.4
Endosulfan II	UG/KG	4 U	19 U	20 U	20 U	19 U	19 U	20 U	19 U	4.4 U	4.6
Endosulfan sulfate	UG/KG	4 U	19 U	20 U	20 U	19 U	19 U	20 U	19 U	2.7 U	4.6
Endrin	UG/KG	4 U	19 U	20 U	20 U	19 U	19 U	20 U	19 U	6.3	4.6
Endrin aldehyde	UG/KG	4 U	19 U	20 U	20 U	19 U	19 U	20 U	19 U	4.8	9.1
Endrin ketone	UG/KG	4 U	19 U	20 U	20 U	19 U	19 U	20 U	19 U	7.7	1.7
Gamma-BHC/Chlordane	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	2.3 U	2.4
Gamma-Chlordane	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	1.2 U	2.4
Heptachlor	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	2.3 U	2.4
Heptachlor epoxide	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	4.3	2.4
Methoxychlor	UG/KG	20 U	99 U	100 U	100 U	96 U	98 U	100 U	100 U	23 U	24
Toxaphene	UG/KG	200 U	190 U	200 U	200 U	190 U	190 U	200 U	190 U	230 U	240
Aroclor-1016	UG/KG	40 U	39 U	39 U	39 U	37 U	38 U	40 U	39 U	44 U	46
Aroclor-1221	UG/KG	40 U	39 U	39 U	39 U	37 U	38 U	40 U	39 U	60 U	64
Aroclor-1232	UG/KG	40 U	39 U	39 U	39 U	37 U	38 U	40 U	39 U	44 U	46
Aroclor-1242	UG/KG	40 U	39 U	39 U	39 U	37 U	38 U	40 U	39 U	44 U	46
Aroclor-1248	UG/KG	40 U	39 U	39 U	39 U	37 U	38 U	40 U	39 U	44 U	46
Aroclor-1254	UG/KG	40 U	39 U	39 U	39 U	37 U	38 U	40 U	39 U	44 U	46
Aroclor-1260	UG/KG	40 U	39 U	39 U	39 U	37 U	38 U	40 U	39 U	44 U	46
Metals											
Aluminum	MG/KG	13900 J	11500	10900	14200	11400	15000	14900	11000	7250	9080
Antimony	MG/KG	1.8 J	3.3 UJ	3.4 UJ	3.5 UJ	3.4 UJ	3.5 UJ	3.5 UJ	3.5 UJ	1.9 J	6.25
Arsenic	MG/KG	7.5 J	4.7 J	5.2 J	4.9 J	4.5 J	5 J	5.9 J	4.8 J	4.9	7.4
Barium	MG/KG	71.7 J	66	94.8	90.6	82.9	85.2	116	55.5	51.2 J	53.4
Beryllium	MG/KG	0.64	0.36	0.34	0.35	0.21	0.41	0.43	0.27	0.26 J	0.25
Cadmium	MG/KG	0.27 J	0.28 U	0.33	0.53 J	0.55 J	0.55 J	0.71	0.53 J	0.08 UJ	0.08

**Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-P01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	SS71-1	SS71-10
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-P01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	71013	71017
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0.2	0.2
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	11/19/1997	11/19/1997
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
Parameter	Unit	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value
Calcium	MG/KG	11000 J	32800	32400	6040 J	34500 J	6060 J	18800 J	70700 J	35100	11100
Chromium	MG/KG	19.3 J	20.4	18.7	19.8	16.3	22.2	21.3	15	13.4 J	14.2
Cobalt	MG/KG	11.9 J	10.9	8.8	10.4	8.6	9.7	13.9	9.9	7.4	8.7
Copper	MG/KG	19.4 J	38.9	23.3	19.1	20.7	20.3	22.6	16.5	47.7 J	28.8
Cyanide	MG/KG									0.67 U	0.74
Iron	MG/KG	27200 J	23100 J	20300 J	26100	22000	29700	27900	19400	31800	24100
Lead	MG/KG	10.9 J	3.63	99.2	12.1	12.9	13	17.8	19.8	185 J	28.5
Magnesium	MG/KG	4550 J	8350	8730	4730	11100	4520	7040	6780	5050	4170
Manganese	MG/KG	771 J	453	503	849	555	470	1330	615	383 J	554
Mercury	MG/KG	0.04 J	0.07	0.06	0.04	0.03 J	0.04 J	0.04	0.03 J	0.14 J	0.07
Nickel	MG/KG	29 J	33.2	24.4	26.8	22.5	29.5	30	20.1	19.9	110
Potassium	MG/KG	810 J	1110	1150	970	992	1100	1100	908	1330	1030
Selenium	MG/KG	0.47 U	0.55 U	0.56 U	0.58 U	0.56 U	0.58 U	0.58 U	0.58 U	1.4 J	1.8
Silver	MG/KG	1.4 J	0.55 U	0.56 U	0.58 U	0.56 U	0.58 U	0.58 U	0.58 U	0.54 UJ	0.57
Sodium	MG/KG	39.9	68.6	50.1 J	37.2 J	70	46.4 J	49.2 J	78.4	215	636
Thallium	MG/KG	0.24 U	0.57 J	0.67 J	0.6 J	0.56 U	0.58 U	0.83 J	0.58 U	1.6 U	1.7
Vanadium	MG/KG	17.9 J	19.1	20.7	20.3	18.3	21.1	21.6	19.3	16	13.7
Zinc	MG/KG	66.4 J	97.1 J	97.5 J	66.7 J	59.5 J	79.1 J	71.3 J	51.8 J	95.3 J	1740

Notes:

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entry and averaged result values were used in risk assessment analysis

U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected; the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility Location ID	SEAD-71 SS71-11	SEAD-71 SS71-12	SEAD-71 SS71-13	SEAD-71 SS71-14	SEAD-71 SS71-15	SEAD-71 SS71-16	SEAD-71 SS71-17	SEAD-71 SS71-18
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	71024	71023	71027	71025	71032	71021	71030	71022
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Sample Date	11/20/1997	11/20/1997	11/21/1997	11/20/1997	11/21/1997	11/20/1997	11/21/1997	11/20/1997
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID: P I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I
Parameter	Units (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics									
1,1,1-Trichloroethane	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	11 U
1,1,2,2-Tetrachloroethane	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	11 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG								
1,1,2-Trichloroethane	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	11 U
1,1-Dichloroethane	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	11 U
1,1-Dichloroethene	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	11 U
1,2,3-Trichloropropane	UG/KG								
1,2,4-Trichlorobenzene	UG/KG								
1,2-Dibromo-3-chloropropane	UG/KG								
1,2-Dibromoethane	UG/KG								
1,2-Dichlorobenzene	UG/KG								
1,2-Dichloroethane	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	11 U
1,2-Dichloroethene (total)	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	11 U
1,2-Dichloropropane	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	11 U
1,3-Dichlorobenzene	UG/KG								
1,3-Dichloropropane	UG/KG								
1,4-Dichlorobenzene	UG/KG								
Acetone	UG/KG U	11 U	11 U	18 U	74	13 U	12 U	11 U	11 U
Benzene	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	11 U
Bromodichloromethane	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	11 U
Bromoform	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	11 U
Carbon disulfide	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	11 U
Carbon tetrachloride	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	11 U
Chlorobenzene	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	11 U
Chlorodibromomethane	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	11 U
Chloroethane	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	11 U
Chloroform	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	11 U
Cis-1,2-Dichloroethene	UG/KG								
Cis-1,3-Dichloropropene	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	11 U
Cyclohexane	UG/KG								
Dichlorodifluoromethane	UG/KG								
Ethyl benzene	UG/KG U	11 U	11 U	4 J	12 U	13 U	12 U	11 U	11 U
Isopropylbenzene	UG/KG								

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility Location ID	SEAD-71 SS71-11	SEAD-71 SS71-12	SEAD-71 SS71-13	SEAD-71 SS71-14	SEAD-71 SS71-15	SEAD-71 SS71-16	SEAD-71 SS71-17	SEAD-71 SS71-18	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample ID	71024	71023	71027	71025	71032	71021	71030	71022	
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample ⁽¹⁾	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Sample Date	11/20/1997	11/20/1997	11/21/1997	11/20/1997	11/21/1997	11/20/1997	11/21/1997	11/20/1997	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID: P I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	
Parameter	Units (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Meta/Para Xylene	UG/KG								
Methyl Acetate	UG/KG								
Methyl Tertiary Ether	UG/KG								
Methyl bromide	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	
Methyl butyl ketone	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	
Methyl chloride	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	
Methyl cyclohexane	UG/KG								
Methyl ethyl ketone	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	
Methyl isobutyl ketone	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	
Methylene chloride	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	
Ortho Xylene	UG/KG								
Styrene	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	
Tetrachloroethene	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	
Toluene	UG/KG U	4 J	4 J	9 J	12 U	2 J	12 U	16	
Total BTEX	MG/KG								
Total Xylenes	UG/KG U	11 U	11 U	11 J	12 U	13 U	12 U	11 U	
Trans-1,2-Dichloroethene	UG/KG								
Trans-1,3-Dichloropropene	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	
Trichloroethene	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	
Trichlorofluoromethane	UG/KG								
Vinyl chloride	UG/KG U	11 U	11 U	18 U	12 U	13 U	12 U	11 U	
Semivolatile Organics									
1,1'-Biphenyl	UG/KG								
1,2,4-Trichlorobenzene	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
1,2-Dichlorobenzene	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
1,3-Dichlorobenzene	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
1,4-Dichlorobenzene	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
2,2'-oxybis(1-Chloropropane)	UG/KG								
2,4,5-Trichlorophenol	UG/KG U	180000 U	56000 U	170000 U	220 U	20000 U	94000 U	85000 U	2200 U
2,4,6-Trichlorophenol	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
2,4-Dichlorophenol	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
2,4-Dimethylphenol	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
2,4-Dinitrophenol	UG/KG U	180000 U	56000 U	170000 U	220 U	20000 U	94000 U	85000 U	2200 U
2,4-Dinitrotoluene	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
2,6-Dinitrotoluene	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
2-Chloronaphthalene	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
2-Chlorophenol	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
2-Methylnaphthalene	UG/KG J	5300 J	4000 J	19000 J	23 J	8400 U	39000 U	35000 U	900 U
2-Methylphenol	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
2-Nitroaniline	UG/KG U	180000 U	56000 U	170000 U	220 U	20000 U	94000 U	85000 U	2200 U
2-Nitrophenol	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
3,3'-Dichlorobenzidine	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
3-Nitroaniline	UG/KG U	180000 U	56000 U	170000 U	220 U	20000 U	94000 U	85000 U	2200 U
4,6-Dinitro-2-methylphenol	UG/KG U	180000 U	56000 U	170000 U	220 U	20000 U	94000 U	85000 U	2200 U
4-Bromophenyl phenyl ether	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U

**Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Facility Location ID	SEAD-71 SS71-11	SEAD-71 SS71-12	SEAD-71 SS71-13	SEAD-71 SS71-14	SEAD-71 SS71-15	SEAD-71 SS71-16	SEAD-71 SS71-17	SEAD-71 SS71-18	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample ID	71024	71023	71027	71025	71032	71021	71030	71022	
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample ⁽¹⁾	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Sample Date	11/20/1997	11/20/1997	11/21/1997	11/20/1997	11/21/1997	11/20/1997	11/21/1997	11/20/1997	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID: P I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
4-Chloro-3-methylphenol	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
4-Chloroaniline	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
4-Chlorophenyl phenyl ether	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
4-Methylphenol	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
4-Nitroaniline	UG/KG U	180000 U	56000 U	170000 U	220 U	20000 U	94000 U	85000 U	2200 U
4-Nitrophenol	UG/KG U	180000 U	56000 U	170000 U	220 U	20000 U	94000 U	85000 U	2200 U
Acenaphthene	UG/KG J	28000 J	12000 J	42000 J	10 J	1600 J	6400 J	30000 J	230 J
Acenaphthylene	UG/KG U	72000 U	23000 U	70000 U	20 J	8400 U	39000 U	35000 U	900 U
Acetophenone	UG/KG								
Aniline	UG/KG								
Anthracene	UG/KG J	100000 J	32000 J	100000 J	180 J	7900 J	30000 J	77000 J	390 J
Atrazine	UG/KG								
Benzaldehyde	UG/KG								
Benz(a)anthracene	UG/KG	150000	38000	100000	360	18000	91000	120000	2200
Benz(a)pyrene	UG/KG	120000	34000	80000	350	16000	70000	96000	2100
Benz(b)fluoranthene	UG/KG	88000	21000 J	63000 J	830	14000	59000	78000	4000
Benz(ghi)perylene	UG/KG	62000 J	19000 J	42000 J	220	12000	36000 J	46000	1300
Benz(k)fluoranthene	UG/KG	130000	39000	76000	89 U	19000	74000	93000	900 U
Benzoic Acid	UG/KG								
Bis(2-Chloroethoxy)methane	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
Bis(2-Chloroethyl)ether	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
Bis(2-Chloroisopropyl)ether	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
Bis(2-Ethylhexyl)phthalate	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
Butylbenzylphthalate	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
Caprolactam	UG/KG								
Carbazole	UG/KG J	39000 J	20000 J	77000	150	5100 J	9300 J	47000	780 J
Chrysene	UG/KG	150000	37000	90000	560	20000	82000	110000	2800
Di-n-butylphthalate	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
Di-n-octylphthalate	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
Dibenz(a,h)anthracene	UG/KG J	25000 J	8200 J	17000 J	83 J	3600 J	16000 J	21000 J	440 J
Dibenzofuran	UG/KG J	14000 J	10000 J	38000 J	31 J	680 J	3000 J	23000 J	110 J
Diethyl phthalate	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
Dimethyl phthalate	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
Fluoranthene	UG/KG	440000	96000	240000	480	37000	190000	270000	5300
Fluorene	UG/KG J	35000 J	19000 J	62000 J	47 J	1900 J	7300 J	39000	190 J
Hexachlorobenzene	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
Hexachlorobutadiene	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
Hexachlorocyclopentadiene	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
Hexachloroethane	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
Indeno(1,2,3-cd)pyrene	UG/KG	65000 J	19000 J	38000 J	190	11000	36000 J	45000	1200
Isophorone	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
N-Nitrosodiphenylamine	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
N-Nitrosodipropylamine	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
Naphthalene	UG/KG U	6000 J	8000 J	46000 J	31 J	8400 U	39000 U	5500 J	88 J
Nitrobenzene	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U

**Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	SS71-11	SS71-12	SS71-13	SS71-14	SS71-15	SS71-16	SS71-17	SS71-18
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	71024	71023	71027	71025	71032	71021	71030	71022
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Sample Date	11/20/1997	11/20/1997	11/21/1997	11/20/1997	11/21/1997	11/20/1997	11/21/1997	11/20/1997
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID/P	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I
Parameter	Units (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pentachlorophenol	UG/KG U	180000 U	56000 U	170000 U	220 U	20000 U	94000 U	85000 U	2200 U
Phenanthrene	UG/KG U	280000	98000	290000	210	34000	92000	240000	2800
Phenol	UG/KG U	72000 U	23000 U	70000 U	89 U	8400 U	39000 U	35000 U	900 U
Pyrene	UG/KG U	280000	74000	200000	520	35000	170000	220000	4700
Pyridine	UG/KG U								
Pesticides/PCBs									
4,4'-DDD	UG/KG U	26 J	35 U	57	4.4 U	110	53	240	3.1 J
4,4'-DDE	UG/KG U	26 J	35 U	35 U	18	440	360	810	20
4,4'-DDT	UG/KG U	43	35 U	40	21	910	1300	1300	46
Aldrin	UG/KG U	19 U	18 U	18 U	2.3 U	22 U	20 U	18 U	1.8 U
Alpha-BHC	UG/KG U	19 U	18 U	18 U	2.3 U	22 U	20 U	18 U	1.2 J
Alpha-Chlordane	UG/KG U	19 U	18 U	18 U	2.3 U	22 U	20 U	18 U	1.8 U
Beta-BHC	UG/KG U	21	18 U	32	2.3 U	21 J	11 J	35	1.9
Delta-BHC	UG/KG U	19 U	18 U	18 U	2.3 U	22 U	20 U	18 U	1.8 U
Dieldrin	UG/KG U	37 U	35 U	35 U	3.4 J	42 U	39 U	35 U	3.6 U
Endosulfan I	UG/KG U	15 J	18 U	15 J	2.3 U	13 J	20 U	18 U	1.5 J
Endosulfan II	UG/KG U	37 U	35 U	35 U	4.4 U	52	39 U	35 U	3.6 U
Endosulfan sulfate	UG/KG U	37 U	48	110	4.4 U	110	39 U	35 U	12
Endrin	UG/KG U	55	35 U	22 J	8.1	53	120	53	2.7 J
Endrin aldehyde	UG/KG U	70	34 J	22 J	5.2	110	61	53	7.8
Endrin ketone	UG/KG U	160	35 U	87	14	130	140	180	12
Gamma-BHC (Lindane)	UG/KG U	19 U	18 U	18 U	2.3 U	22 U	20 U	18 U	1.8 U
Gamma-Chlordane	UG/KG U	19 U	18 U	18 U	2.3 U	22 U	22	48	1.5 J
Heptachlor	UG/KG U	19 U	18 U	18 U	2.3 U	22 U	20 U	18 U	1.8 U
Heptachlor epoxide	UG/KG U	17 J	18 U	9.8 J	2.3 U	28	24	180	3.1
Methoxychlor	UG/KG U	270	210	250	39	140 J	200	240	11 J
Toxaphene	UG/KG U	1900 U	1800 U	1800 U	230 U	2200 U	2000 U	1800 U	1800 U
Aroclor-1016	UG/KG U	370 U	350 U	350 U	44 U	420 U	390 U	350 U	36 U
Aroclor-1221	UG/KG U	740 U	700 U	710 U	90 U	850 U	790 U	710 U	73 U
Aroclor-1232	UG/KG U	370 U	350 U	350 U	44 U	420 U	390 U	350 U	36 U
Aroclor-1242	UG/KG U	370 U	350 U	350 U	44 U	420 U	390 U	350 U	36 U
Aroclor-1248	UG/KG U	370 U	350 U	350 U	44 U	420 U	390 U	350 U	36 U
Aroclor-1254	UG/KG U	370 U	350 U	350 U	44 U	420 U	390 U	350 U	36 U
Aroclor-1260	UG/KG U	370 U	350 U	350 U	44 U	420 U	390 U	350 U	36 U
Metals									
Aluminum	MG/KG U	2900	2450	1890	10500	4230	4690	1910	1710
Antimony	MG/KG UJ	0.98 J	0.7 UJ	0.63 UJ	0.85 UJ	1.8 J	19.3 J	0.67 UJ	0.75 J
Arsenic	MG/KG U	5.8	3.2	3.5	4.1	5.9	9.8	3.5	2.1
Barium	MG/KG J	50.5 J	88.1 J	65.1 J	58.8 J	40.4 J	179 J	127 J	20.9 J
Beryllium	MG/KG U	0.08	0.08	0.05	0.31	0.19	0.08	0.07	0.08
Cadmium	MG/KG UJ	5.2 J	0.06 UJ	0.05 UJ	0.07 UJ	12.1 J	3.1 J	0.06 UJ	1.5 J

**Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	SS71-11	SS71-12	SS71-13	SS71-14	SS71-15	SS71-16	SS71-17	SS71-18
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	71024	71023	71027	71025	71032	71021	71030	71022
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Sample Date	11/20/1997	11/20/1997	11/21/1997	11/20/1997	11/21/1997	11/20/1997	11/21/1997	11/20/1997
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID: P I	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Calcium	MG/KG	205000	222000	190000	295000	192000	245000	221000	222000
Chromium	MG/KG J	19 J	5.8 J	4.2 J	16.5 J	23 J	33.2 J	5.3 J	21.4 J
Cobalt	MG/KG	5.6	4.3	3.7	10	7.8	9.8	4.3	3.3
Copper	MG/KG J	24.8 J	5.4 J	5.9 J	19.5 J	40.3 J	13.4 J	7.4 J	19.8 J
Cyanide	MG/KG U	0.59 U	0.59 U	0.53 U	0.71 U	0.63 U	0.59 U	0.56 U	0.63 U
Iron	MG/KG	19100	5990	6220	19600	18400	36100	6420	8260
Lead	MG/KG J	92.8 J	16.9 J	11.4 J	33.3 J	212 J	3470 J	15.6 J	205 J
Magnesium	MG/KG	24500	34300	33800	59300	11800	10800	33300	11300
Manganese	MG/KG J	361 J	286 J	306 J	640 J	389 J	534 J	277 J	202 J
Mercury	MG/KG UJ	0.29 UJ	0.05 UJ	0.05 UJ	0.07 J	0.06 UJ	2.7 J	0.05 UJ	0.05 UJ
Nickel	MG/KG	18.2	11.9	10.7	20.8	27.3	32.6	11.1	8.7
Potassium	MG/KG	1190	1370	903	1540	1120	1020	849	671
Selenium	MG/KG J	0.99 UJ	0.94 UJ	0.85 UJ	1.3 J	1.1 UJ	1.8 J	0.9 UJ	0.9 UJ
Silver	MG/KG UJ	2.2 J	0.42 UJ	0.38 UJ	0.51 UJ	0.6 J	0.44 J	0.4 UJ	0.4 UJ
Sodium	MG/KG	324	257	224	233	573	314	302	208
Thallium	MG/KG U	1.3 U	1.3 U	1.1 U	1.5 U	1.5 U	1.3 U	1.2 U	1.2 U
Vanadium	MG/KG	14.8	10	6.9	17.8	20.1	17.3	7.4	8.8
Zinc	MG/KG J	201 J	44.7 J	44.4 J	389 J	1810 J	351 J	43.4 J	73.1 J

Note(s)

(1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)

(2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected; the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility Location ID	SEAD-71 SS71-19	SEAD-71 SS71-2	SEAD-71 SS71-20	SEAD-71 SS71-3	SEAD-71 SS71-4	SEAD-71 SS71-5	SEAD-71 SS71-6	SEAD-71 SS71-8	SEAD-71 SS71-9
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	71020	71014	71031	71015	71016	71029	71028	71019	71018
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Sample Date	11/20/1997	11/19/1997	11/21/1997	11/19/1997	11/19/1997	11/21/1997	11/21/1997	11/19/1997	11/19/1997
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value
Volatile Organics										
1,1,1-Trichloroethane	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	12
1,1,2,2-Tetrachloroethane	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	12
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG									
1,1,2-Trichloroethane	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	12
1,1-Dichloroethane	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	12
1,1-Dichloroethene	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	12
1,2,3-Trichloropropane	UG/KG									
1,2,4-Trichlorobenzene	UG/KG									
1,2-Dibromo-3-chloropropane	UG/KG									
1,2-Dibromoethane	UG/KG									
1,2-Dichlorobenzene	UG/KG									
1,2-Dichloroethane	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	12
1,2-Dichloroethene (total)	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	12
1,2-Dichloropropane	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	12
1,3-Dichlorobenzene	UG/KG									
1,3-Dichloropropane	UG/KG									
1,4-Dichlorobenzene	UG/KG									
Acetone	UG/KG	13 U	8 J	13 U	12 U	12 U	11 U	11 U	12 U	12
Benzene	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	12
Bromodichloromethane	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	12
Bromoform	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	12
Carbon disulfide	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	12
Carbon tetrachloride	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	12
Chlorobenzene	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	12
Chlorodibromomethane	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	12
Chloroethane	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	12
Chloroform	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	12
Cis-1,2-Dichloroethene	UG/KG									
Cis-1,3-Dichloropropene	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	12
Cyclohexane	UG/KG									
Dichlorodifluoromethane	UG/KG									
Ethyl benzene	UG/KG	13 U	15 U	4 J	12 U	12 U	11 U	11 U	12 U	12
Isopropylbenzene	UG/KG									

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility Location ID	SEAD-71 SS71-19	SEAD-71 SS71-2	SEAD-71 SS71-20	SEAD-71 SS71-3	SEAD-71 SS71-4	SEAD-71 SS71-5	SEAD-71 SS71-6	SEAD-71 SS71-8	SEAD-71 SS71-9	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample ID	71020	71014	71031	71015	71016	71029	71028	71019	71018	
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample ⁽²⁾	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Sample Date	11/20/1997	11/19/1997	11/21/1997	11/19/1997	11/19/1997	11/19/1997	11/21/1997	11/19/1997	11/19/1997	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Meta/Para Xylene	UG/KG									
Methyl Acetate	UG/KG									
Methyl Tertiary Ether	UG/KG									
Methyl bromide	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	
Methyl butyl ketone	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	
Methyl chloride	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	
Methyl cyclohexane	UG/KG									
Methyl ethyl ketone	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	
Methyl isobutyl ketone	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	
Methylene chloride	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	
Ortho Xylene	UG/KG									
Styrene	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	
Tetrachloroethane	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	
Toluene	UG/KG	13 U	15 U	7 J	12 U	12 U	5 J	11 U	12 U	
Total BTEX	MG/KG									
Total Xylenes	UG/KG	13 U	15 U	9 J	12 U	12 U	11 U	11 U	12 U	
Trans-1,2-Dichloroethene	UG/KG									
Trans-1,3-Dichloropropene	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	
Trichloroethene	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	
Trichlorofluoromethane	UG/KG									
Vinyl chloride	UG/KG	13 U	15 U	13 U	12 U	12 U	11 U	11 U	12 U	
Semivolatile Organics										
1,1'-Biphenyl	UG/KG									
1,2,4-Trichlorobenzene	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	
1,2-Dichlorobenzene	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	
1,3-Dichlorobenzene	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	
1,4-Dichlorobenzene	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	
2,2'-oxybis(1-Chloropropane)	UG/KG									
2,4,5-Trichlorophenol	UG/KG	6800 U	2100 U	2000 U	410 U	190 U	3600 U	44000 U	1000 U	
2,4,6-Trichlorophenol	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	
2,4-Dichlorophenol	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	
2,4-Dimethylphenol	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	
2,4-Dinitrophenol	UG/KG	6800 U	2100 U	2000 U	410 U	190 U	3600 U	44000 U	1000 U	
2,4-Dinitrotoluene	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	
2,6-Dinitrotoluene	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	
2-Chloronaphthalene	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	
2-Chlorophenol	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	
2-Methylnaphthalene	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	
2-Methylphenol	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	
2-Nitroaniline	UG/KG	6800 U	2100 U	2000 U	410 U	190 U	3600 U	44000 U	1000 U	
2-Nitrophenol	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	
3,3'-Dichlorobenzidine	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	
3-Nitroaniline	UG/KG	6800 U	2100 U	2000 U	410 U	190 U	3600 U	44000 U	1000 U	
4,6-Dinitro-2-methylphenol	UG/KG	6800 U	2100 U	2000 U	410 U	190 U	3600 U	44000 U	1000 U	
4-Bromophenyl phenyl ether	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	

**Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	
	Location ID	SS71-19	SS71-2	SS71-20	SS71-3	SS71-4	SS71-5	SS71-6	SS71-8	SS71-9	
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sample ID	71020	71014	71031	71015	71016	71029	71028	71019	71018	
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	
	Sample Depth to Bottom of Sample ⁽¹⁾	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	Sample Date	11/20/1997	11/19/1997	11/21/1997	11/19/1997	11/19/1997	11/21/1997	11/21/1997	11/19/1997	11/19/1997	
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	
	Study ID	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value	
4-Chloro-3-methylphenol	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	
4-Chloroaniline	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	
4-Chlorophenyl phenyl ether	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	
4-Methylphenol	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	
4-Nitroaniline	UG/KG	6800 U	2100 U	2000 U	410 U	190 U	3600 U	44000 U	1000 U	220	
4-Nitrophenol	UG/KG	6800 U	2100 U	2000 U	410 U	190 U	3600 U	44000 U	1000 U	220	
Acenaphthene	UG/KG	510 J	69 J	160 J	52 J	5.5 J	290 J	2600 J	96 J	38	
Acenaphthylene	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	73 J	22	
Acetophenone	UG/KG										
Aniline	UG/KG										
Anthracene	UG/KG	1000 J	170 J	440 J	120 J	12 J	590 J	10000 J	240 J	70	
Atrazine	UG/KG										
Benzaldehyde	UG/KG										
Benzo(a)anthracene	UG/KG	4500	1100	2100	570	70 J	3200	42000	880	310	
Benzo(a)pyrene	UG/KG	4400	1300	2000	540	83	3400	47000	1100	360	
Benzo(b)fluoranthene	UG/KG	4600	1200	1900	950	130	4300	56000	1400	810	
Benzo(g)hperylene	UG/KG	2600 J	820 J	1200	310	69 J	2300	31000	940	220	
Benzo(k)fluoranthene	UG/KG	4700	1600	2000	170 U	80 U	4500	47000	1400	89	
Benzoic Acid	UG/KG										
Bis(2-Chloroethoxy)methane	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	
Bis(2-Chloroethyl)ether	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	
Bis(2-Chloroisopropyl)ether	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	
Bis(2-Ethylhexyl)phthalate	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	
Butylbenzylphthalate	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	
Caprolactam	UG/KG										
Carbazole	UG/KG	1700 J	350 J	680 J	160 J	15 J	1300 J	16000 J	510	160	
Chrysene	UG/KG	5500	1600	2400	660	80	6200	64000	1600	500	
Di-n-butylphthalate	UG/KG	140 J	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	6.4	
Di-n-octylphthalate	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	
Dibenz(a,h)anthracene	UG/KG	1100 J	300 J	430 J	120 J	29 J	760 J	12000 J	340 J	93	
Dibenzofuran	UG/KG	270 J	64 J	89 J	22 J	80 U	190 J	1300 J	75 J	21	
Diethyl phthalate	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	
Dimethyl phthalate	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	
Fluoranthene	UG/KG	12000	3000	4300	1200	140	12000	110000	2400	710	
Fluorene	UG/KG	570 J	67 J	160 J	36 J	4.7 J	290 J	3200 J	100 J	31	
Hexachlorobenzene	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	
Hexachlorobutadiene	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	
Hexachlorocyclopentadiene	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	
Hexachloroethane	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	
Indeno(1,2,3-cd)pyrene	UG/KG	2500 J	780 J	1100	310	57 J	2100	18000	780	200	
Isothorone	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	
N-Nitrosodiphenylamine	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	
N-Nitrosodipropylamine	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	
Naphthalene	UG/KG	2800 U	880 U	800 U	170 U	11 J	10 J	1500 U	18000 U	430 U	15
Nitrobenzene	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89	

**Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Facility Location ID	SEAD-71 SS71-19	SEAD-71 SS71-2	SEAD-71 SS71-20	SEAD-71 SS71-3	SEAD-71 SS71-4	SEAD-71 SS71-5	SEAD-71 SS71-6	SEAD-71 SS71-8	SEAD-71 SS71-9	
Maxitrox	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample ID	71020	71014	71031	71015	71016	71029	71028	71019	71018	
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample ⁽¹⁾	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Sample Date	11/20/1997	11/19/1997	11/21/1997	11/19/1997	11/19/1997	11/21/1997	11/21/1997	11/19/1997	11/19/1997	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Polychlorinated Biphenyls	UG/KG	6800 U	2100 U	2000 U	410 U	190 U	3600 U	44000 U	1000 U	220
Phenanthrene	UG/KG	8300	1400	2600	530	50 J	5700	49000	880	390
Phenol	UG/KG	2800 U	880 U	800 U	170 U	80 U	1500 U	18000 U	430 U	89
Pyrene	UG/KG	11000	2300	3900	950	110	9400	98000	1900	500
Pyridine	UG/KG									
Pesticides/PCBs										
4,4'-DDD	UG/KG	40 J	2.8 J	40 U	4.2 U	3.2 J	37 U	50	4.3 U	4.4
4,4'-DDE	UG/KG	390	44	86	21	19	45	99	19	15
4,4'-DDT	UG/KG	960	53	100	19	16	37 U	250	77	25
Aldrin	UG/KG	22 U	2.3 U	21 U	2.2 U	19 U	19 U	19 U	2.2 U	2.3
Alpha-BHC	UG/KG	22 U	1.9 J	21 U	2.2 U	2 U	14 J	19 U	2.2 U	2.3
Alpha-Chlordane	UG/KG	22 U	2.3 U	21 U	2.2 U	2 U	19 U	19 U	2.2 U	2.3
Beta-BHC	UG/KG	22 U	2.3 U	21 U	2.2 U	2 U	19 U	19 U	2.2 U	2.3
Delta-BHC	UG/KG	22 U	2.3 U	21 U	2.2 U	2 U	19 U	19 U	2.2 U	2.3
Dieldrin	UG/KG	42 U	3 J	40 U	4.2 U	4 U	37 U	37 U	4.3 U	4.4
Endosulfan I	UG/KG	22 U	2.3 U	21 U	2.2 U	2 U	19 U	19 U	2.2 U	2.3
Endosulfan II	UG/KG	42 U	4.4 U	40 U	4.2 U	4 U	37 U	50	4.3 U	4.4
Endosulfan sulfate	UG/KG	31 J	4.4	40 U	4 J	4 U	37 U	36 J	4.6	4.4
Endrin	UG/KG	42 U	2.4 J	40 U	4.2 U	4 U	37 U	54	4.3 U	4.4
Endrin aldehyde	UG/KG	36 J	4.7	40 U	8.3	4	37 U	120	6.1	4.4
Endrin ketone	UG/KG	26 J	6.6	40 U	6.4	4 U	23 J	120	11	4.4
Gamma-BHC/Lindane	UG/KG	22 U	2.3 U	21 U	2.2 U	2 U	19 U	19 U	2.2 U	2.3
Gamma-Chlordane	UG/KG	22 U	2.3 U	21 U	2.2 U	2 U	19 U	19 U	2.2 U	2.3
Heptachlor	UG/KG	22 U	2.3 U	21 U	2.2 U	2 U	19 U	19 U	2.2 U	2.3
Heptachlor epoxide	UG/KG	19 J	6.4	21 U	2.2 U	1.5 J	19 U	70	2.2 U	2.3
Methoxychlor	UG/KG	220 U	23 U	210 U	22 U	20 U	520	170 J	62	23
Toxaphene	UG/KG	2200 U	230 U	2100 U	220 U	200 U	1900 U	1900 U	220 U	230
Aroclor-1016	UG/KG	420 U	44 U	400 U	42 U	40 U	370 U	370 U	43 U	44
Aroclor-1221	UG/KG	850 U	89 U	820 U	86 U	81 U	750 U	740 U	87 U	90
Aroclor-1232	UG/KG	420 U	44 U	400 U	42 U	40 U	370 U	370 U	43 U	44
Aroclor-1242	UG/KG	420 U	44 U	400 U	42 U	40 U	370 U	370 U	43 U	44
Aroclor-1248	UG/KG	420 U	44 U	400 U	42 U	40 U	370 U	370 U	43 U	44
Aroclor-1254	UG/KG	420 U	44 U	400 U	42 U	40 U	370 U	370 U	43 U	44
Aroclor-1260	UG/KG	420 U	44 U	400 U	42 U	40 U	370 U	370 U	43 U	44
Metals										
Aluminum	MG/KG	12400	14000	10600	12500	13400	2060	2860	13600	15900
Antimony	MG/KG	1.9 J	1 J	0.77 UJ	0.85 UJ	0.82 UJ	5.2 J	0.76 UJ	0.84 UJ	0.93
Arsenic	MG/KG	11.5	6.1	4.6	4.6	4.7	9.5	4.8	5.9	14.6
Barium	MG/KG	110 J	76.5 J	111 J	75.4 J	76.9 J	42.1 J	39.9 J	101 J	86.2
Beryllium	MG/KG	0.36	0.46	0.52	0.41	0.44	0.02 U	0.11	0.38	0.43
Cadmium	MG/KG	3.9 J	0.08 UJ	0.62 J	0.07 UJ	0.07 UJ	0.07 UJ	1.1 UJ	0.07 UJ	0.08

**Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	SS71-19	SS71-2	SS71-20	SS71-3	SS71-4	SS71-5	SS71-6	SS71-8	SS71-9
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	71020	71014	71031	71015	71016	71029	71028	71019	71018
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Sample Date	11/20/1997	11/19/1997	11/21/1997	11/19/1997	11/19/1997	11/21/1997	11/21/1997	11/19/1997	11/19/1997
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value
Calcium	MG/KG	8780	8370	13800	27100	43200	204000	261000	27300	9080
Chromium	MG/KG	60.3 J	21 J	31.9 J	18 J	19.5 J	39.9 J	14.6 J	22.2 J	23.8
Cobalt	MG/KG	12.4	11.1	9.7	9.4	11.2	7.8	6.4	11.5	12.5
Copper	MG/KG	95.6 J	55 J	98.7 J	40.5 J	24.9 J	48.3 J	18.4 J	23.6 J	45.3
Cyanide	MG/KG	0.64 U	0.68 U	0.7 U	0.75 U	0.61 U	0.58 U	0.58 U	0.71 U	0.67
Iron	MG/KG	34300	25900	25900	22800	24900	65100	11000	27200	38000
Lead	MG/KG	572 J	171 J	346 J	90.8 J	30.1 J	148 J	99.9 J	74.3 J	33
Magnesium	MG/KG	4750	5570	4490	8250	10200	23200	18500	6820	5570
Manganese	MG/KG	660 J	602 J	523 J	482 J	510 J	520 J	427 J	743 J	735
Mercury	MG/KG	0.06 UJ	0.09 J	0.07 J	0.06 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.06 UJ	0.07
Nickel	MG/KG	98.8	28.3	27.7	25.1	30.6	33.6	16.4	26.9	30.9
Potassium	MG/KG	1610	2070	1700	1960	1810	918	1240	1750	2180
Selenium	MG/KG	1.5 J	1.4 J	1.3 J	1.1 UJ	1.1 UJ	1.7 J	1 UJ	1.1 UJ	1.4
Silver	MG/KG	0.69 J	0.54 UJ	0.63 J	0.51 UJ	0.49 UJ	0.46 UJ	0.46 UJ	0.51 UJ	0.67
Sodium	MG/KG	514	176	344	226	251	1040	297	215	237
Thallium	MG/KG	1.5 U	1.6 U	1.4 U	1.5 U	1.5 U	1.4 U	1.4 U	1.5 U	2.3
Vanadium	MG/KG	22.3	23.9	19.2	20	19.6	9.2	11	19.8	23.4
Zinc	MG/KG	1790 J	144 J	525 J	105 J	352 UJ	3660 J	94.4 J	118 J	95.5

Note(s):

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected; the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility Location ID	SEAD-71 TP71-1	SEAD-71 TP71-1	SEAD-71 TP71-1	SEAD-71 TP71-1	SEAD-71 TP71-2	SEAD-71 TP71-2	SEAD-71 TP71-2	SEAD-71 TP71-2	SEAD-71 TP71-2	
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sample ID	TP71-1-1	TP71-1-2	TP71-1-3	TP71-1-4	TP71-2-1	TP71-2-2	TP71-2-4	TP71-2-3	TP71-2-1	
	Sample Depth to Top of Sample (ft)	3	3	3	4	1	2	2	2	0	
	Sample Depth to Bottom of Sample (ft)	3	3	3	4	1	2	2	3.3	8	
	Sample Date	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	10/14/1997	
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	
	Study ID: P I	ESI	ESI	ESI	ESI	ESI	ESI	ESI	ESI	RI PHASE I STEP I	
Parameter	Units	(Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Volatile Organics											
1,1,1-Trichloroethane	UG/KG U		4 J	7 J	10 J	23	11 U	11 U	12 U	3 J	11 U
1,1,2,2-Tetrachloroethane	UG/KG U		12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U
1,1,2-Trichloro-1,2,2-Tetrafluoroethane	UG/KG										
1,1,2-Trichloroethane	UG/KG U		12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U
1,1-Dichloroethane	UG/KG U		12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U
1,1-Dichloroethene	UG/KG U		12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U
1,2,3-Trichloropropane	UG/KG										
1,2,4-Trichlorobenzene	UG/KG										
1,2-Dibromo-3-chloropropane	UG/KG										
1,2-Dibromoethane	UG/KG										
1,2-Dichlorobenzene	UG/KG										
1,2-Dichloroethane	UG/KG U		12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U
1,2-Dichloroethene (total)	UG/KG U		12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U
1,2-Dichloropropane	UG/KG U		12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U
1,3-Dichlorobenzene	UG/KG										
1,3-Dichloropropane	UG/KG										
1,4-Dichlorobenzene	UG/KG										
Acetone	UG/KG U		12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U
Benzene	UG/KG U		12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U
Bromodichloromethane	UG/KG U		12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U
Bromoform	UG/KG U		12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U
Carbon disulfide	UG/KG U		12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U
Carbon tetrachloride	UG/KG U		12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U
Chlorobenzene	UG/KG U		12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U
Chlorodibromomethane	UG/KG U		12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U
Chloroethane	UG/KG U		12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U
Chloroform	UG/KG U		12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U
Cis-1,2-Dichloroethene	UG/KG										
Cis-1,3-Dichloropropene	UG/KG U		12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U
Cyclohexane	UG/KG										
Dichlorodifluoromethane	UG/KG										
Ethyl benzene	UG/KG U		12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U
Isopropylbenzene	UG/KG										

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	TP71-1	TP71-1	TP71-1	TP71-1	TP71-2	TP71-2	TP71-2	TP71-2	TP71-2-3	TP71-3-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	TP71-1-1	TP71-1-1	TP71-1-3	TP71-1-1	TP71-2-1	TP71-2-2	TP71-2-4	TP71-2-3	TP71-2-3	71002
	Sample Depth to Top of Sample ⁽¹⁾	3	3	3	4	1	2	2	2	2	0
	Sample Depth to Bottom of Sample ⁽¹⁾	3	3	3	4	1	2	2	3.3	8	
	Sample Date	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	10/14/1997	
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	
	Study ID: P 1	ESI	ESI	ESI	ESI	ESI	ESI	ESI	ESI	RI PHASE I STEP 1	
Parameter	Units (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Meta/Para Xylene	UG/KG										
Methyl Acetate	UG/KG										
Methyl Tertbutyl Ether	UG/KG										
Methyl bromide	UG/KG U	12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U	11 U
Methyl butyl ketone	UG/KG U	12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U	11 U
Methyl chloride	UG/KG U	12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U	11 U
Methyl cyclohexane	UG/KG										
Methyl ethyl ketone	UG/KG U	12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U	11 U
Methyl isobutyl ketone	UG/KG U	12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U	11 U
Methylene chloride	UG/KG U	2 J	2 J	2 J	2 J	2 J	2 J	11 J	3 J	11 U	11 U
Ortho Xylene	UG/KG										
Styrene	UG/KG U	12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U	11 U
Tetrachloroethene	UG/KG U	1 J	1 J	3 J	12 U	11 U	11 U	12 U	12 U	11 U	11 U
Toluene	UG/KG U	12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U	11 U
Total BTEX	MG/KG										11.6
Total Xylenes	UG/KG U	12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U	3 J
Trans-1,2-Dichloroethene	UG/KG										
Trans-1,3-Dichloropropene	UG/KG U	12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U	11 U
Trichloroethene	UG/KG U	12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U	11 U
Trichlorofluoromethane	UG/KG										
Vinyl chloride	UG/KG U	12 U	12 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U	11 U
Semivolatile Organics											
1,1'-Biphenyl	UG/KG										
1,2,4-Trichlorobenzene	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	66 U
1,2-Dichlorobenzene	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	66 U
1,3-Dichlorobenzene	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	66 U
1,4-Dichlorobenzene	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	66 U
2,2'-oxybis(1-Chloropropane)	UG/KG	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	66 U
2,4,5-Trichlorophenol	UG/KG U	45000 U	1200 U	900 U	940 U	3600 U	930 U	930 U	1000 U	160 U	160 U
2,4,6-Trichlorophenol	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	66 U
2,4-Dichlorophenol	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	66 U
2,4-Dimethylphenol	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	66 U
2,4-Dinitrophenol	UG/KG U	45000 U	1200 U	900 U	940 U	3600 U	930 U	930 U	1000 U	160 U	160 U
2,4-Dinitrotoluene	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	66 U
2,6-Dinitrotoluene	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	66 U
2-Chloronaphthalene	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	66 U
2-Chlorophenol	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	66 U
2-Methylnaphthalene	UG/KG J	19000 U	29 J	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	520
2-Methylphenol	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	66 U
2-Nitroaniline	UG/KG U	45000 U	1200 U	900 U	940 U	3600 U	930 U	930 U	1000 U	160 U	160 U
2-Nitrophenol	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	66 U
3,3'-Dichlorobenzidine	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	66 U
3-Nitroaniline	UG/KG U	45000 U	1200 U	900 U	940 U	3600 U	930 U	930 U	1000 U	160 U	160 U
4,6-Dinitro-2-methylphenol	UG/KG U	45000 U	1200 U	900 U	940 U	3600 U	930 U	930 U	1000 U	160 U	160 U
4-Bromophenyl phenyl ether	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	66 U

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility Location ID	SEAD-71 TP71-1	SEAD-71 TP71-1	SEAD-71 TP71-1	SEAD-71 TP71-1	SEAD-71 TP71-2	SEAD-71 TP71-2	SEAD-71 TP71-2	SEAD-71 TP71-2	SEAD-71 TP71-2	SEAD-71 TP71-3-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	TP71-1-1	TP71-1-2	TP71-1-3	TP71-1-4	TP71-2-1	TP71-2-2	TP71-2-4	TP71-2-3	TP71-2-3	71002
	Sample Depth to Top of Sample (ft)	3	3	3	4	1	2	2	2	2	0
	Sample Depth to Bottom of Sample (ft)	3	3	3	4	1	2	2	3.3	3.3	8
	Sample Date	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	10/14/1997
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID: P I	ESI	ESI	ESI	ESI	ESI	ESI	ESI	ESI	ESI	RI PHASE I STEP I
Parameter	Units (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
4-Chloro-3-methylphenol	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
4-Chloroaniline	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
4-Chlorophenyl phenyl ether	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
4-Methylphenol	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
4-Nitroaniline	UG/KG U	45000 U	1200 U	900 U	940 U	3600 U	930 U	930 U	1000 U	160 U	
4-Nitrophenol	UG/KG U	45000 U	1200 U	900 U	940 U	3600 U	930 U	930 U	1000 U	160 U	
Acenaphthene	UG/KG J	5800 J	280 J	76 J	38 J	1500 U	380 U	380 U	420 U	830 J	
Acenaphthylene	UG/KG J	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
Acetophenone	UG/KG										
Aniline	UG/KG										
Anthracene	UG/KG J	11000 J	560	120 J	59 J	1500 U	380 U	380 U	420 U	48 J	
Atrazine	UG/KG										
Benzaldehyde	UG/KG										
Benzo(a)anthracene	UG/KG	37000	1200	660	180 J	370 J	250 J	120 J	420 U	32 J	
Benzo(a)pyrene	UG/KG	22000	750	630	160 J	490 J	290 J	94 J	420 U	66 U	
Benzo(b)fluoranthene	UG/KG	26000	930	710	130 J	750 J	400	110 J	420 U	66 U	
Benzo(g,h,i)perylene	UG/KG	10000 J	500	500	82 J	370 J	150 J	36 J	420 U	66 U	
Benzo(k)fluoranthene	UG/KG U	15000 J	570	490	140 J	490 J	240 J	77 J	420 U	66 U	
Benzoic Acid	UG/KG										
Bis(2-Chloroethoxy)methane	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
Bis(2-Chloroethyl)ether	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
Bis(2-Chloroisopropyl)ether	UG/KG U										
Bis(2-Ethylhexyl)phthalate	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
Butylbenzylphthalate	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
Caprolactam	UG/KG										
Carbazole	UG/KG	9500 J	360 J	100 J	30 J	1500 U	380 U	380 U	420 U	49 J	
Chrysene	UG/KG	36000	1000	750	220 J	610 J	360 J	130 J	420 U	49 J	
Di-n-butylphthalate	UG/KG J	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
Di-n-octylphthalate	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
Dibenz(a,h)anthracene	UG/KG	9800 J	190 J	320 J	38 J	170 J	130 J	380 U	420 U	66 U	
Dibenzofuran	UG/KG J	19000 U	120 J	370 U	390 U	1500 U	380 U	380 U	420 U	670 J	
Diethyl phthalate	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
Dimethyl phthalate	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
Fluoranthene	UG/KG	88000	2600	1400	330 J	690 J	560	240 J	63 J	220	
Fluorene	UG/KG J	2800 J	230 J	56 J	390 U	1500 U	380 U	380 U	420 U	270	
Hexachlorobenzene	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
Hexachlorobutadiene	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
Hexachlorocyclopentadiene	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
Hexachloroethane	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
Indeno(1,2,3-cd)pyrene	UG/KG	12000 J	390 J	520	88 J	430 J	220 J	52 J	420 U	66 U	
Isophorone	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
N-Nitrosodiphenylamine	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
N-Nitrosodipropylamine	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	
Naphthalene	UG/KG J	19000 U	77 J	370 U	29 J	1500 U	380 U	380 U	420 U	590 J	
Nitrobenzene	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	66 U	

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility Location ID	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Matrix	TP71-1	TP71-1	TP71-1	TP71-1	TP71-2	TP71-2	TP71-2	TP71-2	TP71-2	TP71-3-1
	Sample ID	TP71-1-1	TP71-1-2	TP71-1-3	TP71-1-4	TP71-2-1	TP71-2-2	TP71-2-4	TP71-2-3	TP71-2-3	71002
	Sample Depth to Top of Sample (ft)	3	3	3	4	1	2	2	2	2	0
	Sample Depth to Bottom of Sample (ft)	3	3	3	4	1	2	2	3.3	3.3	8
	Sample Date	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	10/14/1997
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID: P 1	ESI	ESI	ESI	ESI	ESI	ESI	ESI	ESI	ESI	RI PHASE 1 STEP 1
Parameter	Units (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pentachlorophenol	UG/KG U	45000 U	1200 U	900 U	940 U	3600 U	930 U	930 U	1000 U	160 U	160 U
Phenanthrene	UG/KG	66000	1900	770	260 J	270 J	180 J	80 J	30 J	350	350
Phenol	UG/KG U	19000 U	500 U	370 U	390 U	1500 U	380 U	380 U	420 U	4.5 J	4.5 J
Pyrene	UG/KG	63000	1600	2000	390	1000 J	660	260 J	73 J	370	370
Pyridine	UG/KG										
Pesticides/PCBs											
4,4'-DDD	UG/KG U	37 U	3.7 U	3.7 U	3.9 U	3.4 J	3.8 U	3.8 U	4.2 U	3.9 U	3.9 U
4,4'-DDE	UG/KG	37 U	3.7 U	3.1 J	4.2 J	3.7 U	3.8 U	3.8 U	4.2 U	3.9 U	3.9 U
4,4'-DDT	UG/KG	37 U	3.7 U	8.4	13	2.7 J	3.8 U	3.8 U	4.2 U	3.9 U	3.9 U
Aldrin	UG/KG U	19 U	1.9 U	1.9 U	2 U	1.9 U	2 U	2 U	2.2 U	2 U	2 U
Alpha-BHC	UG/KG U	19 U	1.9 U	1.9 U	2 U	1.9 U	2 U	2 U	2.2 U	2 U	2 U
Alpha-Chlordane	UG/KG U	74 J	1.9 U	1.9 U	2 U	2 J	2 U	2 U	2.2 U	2 U	2 U
Beta-BHC	UG/KG U	19 U	1.9 U	1.9 U	2 U	1.9 U	2 U	2 U	2.2 U	2 U	2 U
Delta-BHC	UG/KG U	19 U	1.9 U	1.9 U	2 U	1.9 U	2 U	2 U	2.2 U	2 U	2 U
Dieldrin	UG/KG U	37 U	3.5 J	3.7 U	3.7 U	3.9 U	3.8 U	3.8 U	4.2 U	3.9 U	3.9 U
Endosulfan I	UG/KG U	200 J	3.5	6.6 J	2.8 J	5.1 J	6.9 J	3.4 J	2.2 U	2 U	2 U
Endosulfan II	UG/KG U	26 J	2.5 J	3.7 U	3.9 U	2 J	3.8 U	3.8 U	4.2 U	3.9 U	3.9 U
Endosulfan sulfate	UG/KG U	37 U	3.7 U	3.7 U	3.9 U	2.2 J	3.8 U	3.8 U	4.2 U	3.9 U	3.9 U
Endrin	UG/KG U	29 J	3.7 U	3.7 U	3.9 U	3.7 U	3.8 U	3.8 U	4.2 U	3.9 U	3.9 U
Endrin aldehyde	UG/KG U	37 U	3.7 U	3.7 U	3.9 U	3.7 U	3.8 U	3.8 U	4.2 U	3.9 U	3.9 U
Endrin ketone	UG/KG U	37 U	3.7 U	3.7 U	3.9 U	3.7 U	3.8 U	3.8 U	4.2 U	3.9 U	3.9 U
Gamma-BHC/Lindane	UG/KG U	19 U	1.9 U	1.9 U	2 U	1.9 U	2 U	2 U	2.2 U	2 U	2 U
Gamma-Chlordane	UG/KG U	19 U	1.9 U	1.9 U	2 U	1.9 U	2 U	2 U	2.2 U	2 U	2 U
Heptachlor	UG/KG U	19 U	1.2 J	1.9 U	2 U	1.9 U	2 U	2 U	2.2 U	2 U	2 U
Heptachlor epoxide	UG/KG U	19 U	1.9 U	1.9 U	2 U	1.9 U	2 U	2 U	2.2 U	2 U	2 U
Methoxychlor	UG/KG U	190 U	19 U	19 U	20 U	19 U	20 U	20 U	22 U	20 U	20 U
Toxaphene	UG/KG U	1900 U	190 U	190 U	200 U	190 U	200 U	200 U	220 U	200 U	200 U
Aroclor-1016	UG/KG U	370 U	37 U	37 U	39 U	37 U	38 U	38 U	42 U	39 U	39 U
Aroclor-1221	UG/KG U	750 U	76 U	75 U	79 U	76 U	78 U	78 U	86 U	80 U	80 U
Aroclor-1232	UG/KG U	370 U	37 U	37 U	39 U	37 U	38 U	38 U	42 U	39 U	39 U
Aroclor-1242	UG/KG U	370 U	37 U	37 U	39 U	37 U	38 U	38 U	42 U	39 U	39 U
Aroclor-1248	UG/KG U	370 U	37 U	37 U	39 U	37 U	38 U	38 U	42 U	39 U	39 U
Aroclor-1254	UG/KG U	370 U	37 U	37 U	39 U	37 U	38 U	38 U	42 U	39 U	39 U
Aroclor-1260	UG/KG U	370 U	37 U	37 U	39 U	37 U	38 U	38 U	42 U	39 U	39 U
Metals											
Aluminum	MG/KG	12900	13100	10900	9960	9630	12500	15200	18000	8090 J	8090 J
Antimony	MG/KG UJ	0.19 J	0.27 UJ	0.23 UJ	0.47 J	0.21 J	0.18 UJ	0.25 UJ	0.23 UJ	0.56 UJ	0.56 UJ
Arsenic	MG/KG	5.4	5.1	5.2	4.8	4.2	4.8	7.8	7.6	4.3	4.3
Barium	MG/KG J	86.2	69.2	69.8	63.5	37.5	57.6	76.1	108	51.3	51.3
Beryllium	MG/KG	0.58 J	0.56 J	0.53 J	0.47 J	0.44 J	0.48 J	0.7 J	0.88 J	0.21	0.21
Cadmium	MG/KG UJ	0.53 J	0.39 J	0.45 J	0.45 J	0.44 J	0.43 J	0.48 J	0.45 J	0.08 UJ	0.08 UJ

**Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	TP71-1	TP71-1	TP71-1	TP71-1	TP71-2	TP71-2	TP71-2	TP71-2	TP71-3-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	TP71-1-1	TP71-1-2	TP71-1-3	TP71-1-4	TP71-2-1	TP71-2-2	TP71-2-4	TP71-2-3	71002
	Sample Depth to Top of Sample ⁽¹⁾	3	3	3	4	1	2	2	2	0
	Sample Depth to Bottom of Sample ⁽¹⁾	3	3	3	4	1	2	2	3.3	8
	Sample Date	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	6/7/1994	10/14/1997
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID: P 1	ESI	ESI	ESI	ESI	ESI	ESI	ESI	ESI	R1 PHASE I STEP 1
Parameter	Units (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Calcium	MG/KG	38000 J	52800 J	32200 J	36500 J	10500 J	37200 J	27300 J	4260 J	134000
Chromium	MG/KG J	18.4	17.9	16.3	15.5	18.1	16.7	22	25.8	12.9
Cobalt	MG/KG	9.4	9.3 J	9.7	8.7 J	11.4	9	13.4	14.6	11
Copper	MG/KG J	25.4	19	23	26.7	37.5	17.5	23.5	36.2	15.2
Cyanide	MG/KG U	0.54 U	0.46 U	0.5 U	0.35 U	0.54 U	0.44 U	0.56 U	0.54 U	0.65 U
Iron	MG/KG	23600	22700	21600	20000	22400	22100	32100	32700	18000
Lead	MG/KG J	96.9	10.3	43.8	67.8	25.3	11.2	15.1	15.1	8.9 J
Magnesium	MG/KG	8690	7910	8840	9180	4830	13100	6320	6680	6760 J
Manganese	MG/KG J	497	390	474	458	255	434	503	749	784 J
Mercury	MG/KG UJ	0.03 J	0.03 J	0.03 J	0.03 J	0.04 J	0.15	0.02 J	0.04 J	0.05 U
Nickel	MG/KG	26.8	25.2	24.9	24.6	42.5	23.2	36.1	38.8	26.2
Potassium	MG/KG	1340 J	1540 J	1230 J	1520 J	992 J	1010 J	1300 J	1830 J	1120
Selenium	MG/KG J	0.43 J	0.57 U	0.47 U	0.56 U	0.91	0.37 U	0.74 J	0.61 J	0.77 U
Silver	MG/KG UJ	0.07 UJ	0.11 UJ	0.09 UJ	0.1 UJ	0.06 UJ	0.07 UJ	0.1 UJ	0.09 UJ	0.21 U
Sodium	MG/KG	54.9 J	108 J	140 J	90.7 J	50 J	45.6 J	37.2 J	17.6 U	83.3 U
Thallium	MG/KG	0.25 U	0.4 U	0.33 U	0.4 U	0.24 U	0.26 U	0.36 U	0.34 U	1.2 U
Vanadium	MG/KG	19.7	20.1	17.9	18.2	15.4	19.2	23.1	29.2	15.1
Zinc	MG/KG J	96.2	63.9	86.1	79.7	128	58.9	79.3	71.8	57 J

Note(s)

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis

U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected, the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	TP71-3-2	TP71-4-2	TP71-5-1	TP71-6-1	WS-71-A-009-9	WS-71-B-009-6	WS-71-B-009-8	WS-71-D-009-13	WS-71-D-009-2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	71003	71006	71007	71010	WS-71-A-009-9	WS-71-B-009-6	WS-71-B-009-8	WS-71-D-009-13	WS-71-D-009-2
	Sample Depth to Top of Sample ⁽¹⁾	10.5	10	7	12.5	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	11	10.5	7.5	13	0	0	0	0	0
	Sample Date	10/14/1997	10/14/1997	10/14/1997	10/15/1997	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
	RI PHASE I STEP I	1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics										
1,1,1-Trichloroethane	UG/KG	110 U	12 U	12 U	4 J	6 U	5 U	5 U	5.8 U	5.5 U
1,1,2,2-Tetrachloroethane	UG/KG	110 U	12 U	12 U	12 U	6 UJ	5 UJ	5 R	5.8 U	5.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG					6 U	5 U	5 U	5.8 U	5.5 U
1,1,2-Trichloroethane	UG/KG	110 U	12 U	12 U	12 U	6 U	5 U	5 U	5.8 U	5.5 U
1,1-Dichloroethane	UG/KG	110 U	12 U	12 U	12 U	6 U	5 U	5 U	5.8 U	5.5 U
1,1-Dichloroethane	UG/KG	110 U	12 U	12 U	12 U	6 U	5 U	5 U	5.8 U	5.5 U
1,2,3-Trichloropropane	UG/KG								5.8 U	5.5 U
1,2,4-Trichlorobenzene	UG/KG					6 UJ	5 UJ	5 R	5.8 U	5.5 U
1,2-Dibromo-3-chloropropane	UG/KG					6 UJ	5 UJ	5 R		
1,2-Dibromoothane	UG/KG					6 UJ	5 UJ	5 UJ		
1,2-Dichlorobenzene	UG/KG					6 UJ	5 UJ	5 R	5.8 U	5.5 U
1,2-Dichloroethane	UG/KG	110 U	12 U	12 U	12 U	6 U	5 U	5 U	5.8 U	5.5 U
1,2-Dichloroethene (total)	UG/KG	110 U	12 U	12 U	12 U					
1,2-Dichloropropane	UG/KG	110 U	12 U	12 U	12 U	6 U	5 U	5 U		
1,3-Dichlorobenzene	UG/KG					6 UJ	5 UJ	5 R	5.8 U	5.5 U
1,3-Dichloropropane	UG/KG								5.8 U	5.5 U
1,4-Dichlorobenzene	UG/KG					6 UJ	5 UJ	5 R	5.8 U	5.5 U
Acetone	UG/KG	110 U	12 U	12 U	12 U	6 U	5 U	5 U	23 U	22 U
Benzene	UG/KG	110 U	12 U	12 U	12 U	1 J	5 U	5 U	5.8 U	5.5 U
Bromodichloromethane	UG/KG	110 U	12 U	12 U	12 U	6 U	5 U	5 U		
Bromoforn	UG/KG	110 U	12 U	12 U	12 U	6 UJ	5 UJ	5 UJ		
Carbon disulfide	UG/KG	110 U	12 U	12 U	12 U	2 J	5 U	2 J	5.8 U	5.5 U
Carbon tetrachloride	UG/KG	110 U	12 U	12 U	12 U	6 U	5 UJ	5 U	5.8 U	5.5 U
Chlorobenzene	UG/KG	110 U	12 U	12 U	12 U	6 UJ	5 UJ	5 UJ	5.8 U	5.5 U
Chlorodibromomethane	UG/KG	110 U	12 U	12 U	12 U	6 UJ	5 UJ	5 UJ	5.8 U	5.5 U
Chloroethane	UG/KG	110 U	12 U	12 U	12 U	6 U	5 U	5 U	12 U	11 U
Chloroform	UG/KG	110 U	12 U	12 U	12 U	6 U	5 U	5 U	5.8 U	5.5 U
Cis-1,2-Dichloroethene	UG/KG					6 U	5 U	5 U		
Cis-1,3-Dichloropropene	UG/KG	110 U	12 U	12 U	12 U	6 U	5 U	5 U		
Cyclohexane	UG/KG					4 J	5 U	3 J		
Dichlorodifluoromethane	UG/KG					6 U	5 U	5 U		
Ethyl benzene	UG/KG	110 U	12 U	12 U	12 U	6 UJ	5 UJ	5 UJ	5.8 U	5.5 U
Isopropylbenzene	UG/KG					6 UJ	5 UJ	5 UJ		

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility Location ID	SEAD-71 TP71-3-2	SEAD-71 TP71-4-2	SEAD-71 TP71-5-1	SEAD-71 TP71-6-1	SEAD-71 WS-71-A-009-9	SEAD-71 WS-71-B-009-6	SEAD-71 WS-71-B-009-8	SEAD-71 WS-71-D-009-13	SEAD-71 WS-71-D-009-2	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample ID	71003	71006	71007	71010	WS-71-A-009-9	WS-71-B-009-6	WS-71-B-009-8	WS-71-D-009-13	WS-71-D-009-2	
Sample Depth (to Top of Sample) ⁽¹⁾	10.5	10	7	12.5	0	0	0	0	0	
Sample Depth to Bottom of Sample ⁽¹⁾	11	10.5	7.5	13	0	0	0	0	0	
Sample Date	10/14/1997	10/14/1997	10/14/1997	10/15/1997	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Meta/Para Xylene	UG/KG							5.8 U	5.5 U	
Methyl Acetate	UG/KG				6 U	5 U	5 U			
Methyl Tertbutyl Ether	UG/KG				6 U	5 U	5 U			
Methyl bromide	UG/KG	110 U	12 U	12 U	6 U	5 U	5 U			
Methyl butyl ketone	UG/KG	110 U	12 U	12 U	12 U	6 U	5 U			
Methyl chloride	UG/KG	110 U	12 U	12 U	12 U	6 U	5 U			
Methyl cyclohexane	UG/KG				6	5 U	4 J			
Methyl ethyl ketone	UG/KG	110 U	12 U	12 U	6 U	5 U	5 U	12 U	11 U	
Methyl isobutyl ketone	UG/KG	110 U	12 U	12 U	12 U	6 U	5 U	12 U	11 U	
Methylene chloride	UG/KG	110 U	12 U	12 U	12 U	6 U	2 J	5 U	5.5 U	
Ortho Xylene	UG/KG							5.8 U	5.5 U	
Styrene	UG/KG	110 U	12 U	12 U	12 U	6 U	5 U	5 U		
Tetrachloroethene	UG/KG	110 U	12 U	12 U	12 U	6 U	5 U	5 U	5.8 U	
Toluene	UG/KG	110 U	12 U	12 U	12 U	2 J	5 U	2 J	5.8 U	
Total BTEX	MG/KG		3.5	3.05	3.3					
Total Xylenes	UG/KG	96 J	12 U	12 U	12 U	2 J	5 U	3 J		
Trans-1,2-Dichloroethene	UG/KG				6 U	5 U	5 U	5.8 U	5.5 U	
Trans-1,3-Dichloropropene	UG/KG	110 U	12 U	12 U	12 U	6 U	5 U	5 U		
Trichloroethene	UG/KG	110 U	12 U	12 U	12 U	6 U	5 U	5 U	5.8 U	
Trichlorofluoromethane	UG/KG				6 U	1 J	5 U		5.5 U	
Vinyl chloride	UG/KG	110 U	12 U	12 U	12 U	6 U	5 U	5 U	12 U	
Semi-volatile Organics										
1,1'-Biphenyl	UG/KG				370 U	360 U	370 U			
1,2,4-Trichlorobenzene	UG/KG	760 U	78 U	78 U	78 U	78 U	78 U			
1,2-Dichlorobenzene	UG/KG	760 U	78 U	78 U	78 U	78 U	78 U			
1,3-Dichlorobenzene	UG/KG	760 U	78 U	78 U	78 U	78 U	78 U			
1,4-Dichlorobenzene	UG/KG	760 U	78 U	78 U	78 U	78 U	78 U			
2,2'-oxybis(1-Chloropropane)	UG/KG				370 U	360 U	370 U			
2,4,5-Trichlorophenol	UG/KG	1800 U	190 U	190 U	190 U	940 U	910 U	920 U	1100 U	
2,4,6-Trichlorophenol	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	
2,4-Dichlorophenol	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	
2,4-Dimethylphenol	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U		
2,4-Dinitrophenol	UG/KG	1800 U	190 U	190 U	190 U	940 U	910 U	920 U	5900 U	
2,4-Dinitrotoluene	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	880 J	
2,6-Dinitrotoluene	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	
2-Chloronaphthalene	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U		
2-Chlorophenol	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	
2-Methylnaphthalene	UG/KG	31000 J	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	
2-Methylphenol	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	
2-Nitraniline	UG/KG	1800 U	190 U	190 U	190 U	940 U	910 U	920 U	5900 U	
2-Nitrophenol	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	
3,3'-Dichlorobenzidine	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	
3-Nitroaniline	UG/KG	1800 U	190 U	190 U	190 U	940 U	910 U	920 U	5900 U	
4,6-Dinitro-2-methylphenol	UG/KG	1800 U	190 U	190 U	190 U	940 U	910 U	920 U		
4-Bromophenyl phenyl ether	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U		

**Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	TP71-3-2	TP71-4-2	TP71-5-1	TP71-6-1	WS-71-A-009-9	WS-71-B-009-6	WS-71-B-009-8	WS-71-D-009-13	WS-71-D-009-2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	71003	71006	71007	71010	WS-71-A-009-9	WS-71-B-009-6	WS-71-B-009-8	WS-71-D-009-13	WS-71-D-009-2
	Sample Depth to Top of Sample ⁽¹⁾	10.5	10	7	12.5	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	11	10.5	7.5	13	0	0	0	0	0
	Sample Date	10/14/1997	10/14/1997	10/14/1997	10/15/1997	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
4-Chloro-3-methylphenol	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	1100 U
4-Chloroaniline	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	1100 U
4-Chlorophenyl phenyl ether	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U		
4-Methylphenol	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	1100 U
4-Nitroaniline	UG/KG	1800 U	190 UJ	190 UJ	190 UJ	940 U	75 J	920 U		
4-Nitrophenol	UG/KG	1800 U	190 U	190 U	190 U	940 U	910 U	920 U	5900 U	5600 U
Acenaphthene	UG/KG	13000 J	78 U	78 U	78 U	370 U	360 U	62 J	1100 U	1100 U
Acenaphthylene	UG/KG	340 J	78 U	78 U	78 U	370 U	97 J	130 J	1100 U	230 J
Acetophenone	UG/KG					370 U	360 U	370 U		
Aniline	UG/KG								1100 U	1100 U
Anthracene	UG/KG	590 J	78 U	78 U	78 U	45 J	170 J	520	360 J	370 J
Atrazine	UG/KG					370 U	360 U	370 U		
Benzaldehyde	UG/KG					370 U	360 U	370 U		
Benzo(a)anthracene	UG/KG	240 J	78 U	18 J	3.9 J	180 J	730	1500	830 J	1300
Benzo(a)pyrene	UG/KG	160 J	78 U	19 J	3.9 J	170 J	810	1400	610 J	1500
Benzo(b)fluoranthene	UG/KG	130 J	78 U	21 J	4.4 J	230 J	1100	1900	650 J	1400
Benzo(g)hperylene	UG/KG	76 J	78 U	12 J	78 U	99 J	490	770	430 J	910 J
Benzo(k)fluoranthene	UG/KG	98 J	78 U	24 J	4.6 J	94 J	440	670	650 J	1300
Benzoic Acid	UG/KG								5900 U	5600 U
Bis(2-Chloroethoxy)methane	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U		
Bis(2-Chloroethyl)ether	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U		
Bis(2-Chloroisopropyl)ether	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U		
Bis(2-Ethylhexyl)phthalate	UG/KG	760 U	78 J	15 J	7.6 J	43 J	47 J	56 J	140 J	1100 U
Butylbenzylphthalate	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	1100 U
Caprolactam	UG/KG					370 U	360 U	370 U		
Carbazole	UG/KG	380 J	78 U	4.2 J	78 U	370 U	59 J	240 J		
Chrysene	UG/KG	290 J	78 U	28 J	4.6 J	190 J	820	1500	1000 J	1600
Di-n-butylphthalate	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	1100 U
Di-n-octylphthalate	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	1100 U
Dibenz(a,h)anthracene	UG/KG	760 U	78 U	4.4 J	78 U	370 U	42 J	230 J	170 J	310 J
Dibenzofuran	UG/KG	11000 J	78 U	78 U	78 U	370 U	360 U	38 J	1100 U	1100 U
Diethyl phthalate	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	1100 U
Dimethylphthalate	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	1100 U
Fluoranthene	UG/KG	1900	78 U	52 J	6.9 J	350 J	1300	2700	1800	2800
Fluorene	UG/KG	4100	78 U	78 U	78 U	370 U	360 U	99 J	1100 U	1100 U
Hexachlorobenzene	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	1100 U
Hexachlorobutadiene	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	1100 U
Hexachlorocyclopentadiene	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U		
Hexachloroethane	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	1100 U
Indeno(1,2,3-cd)pyrene	UG/KG	56 J	78 U	12 J	78 U	110 J	830	420 J	880 J	
Isophorone	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	1100 U
N-Nitrosodiphenylamine	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U		
N-Nitrosodipropylamine	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U		
Naphthalene	UG/KG	17000 J	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	1100 U
Nitrobenzene	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	1100 U

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility Location ID	SEAD-71 TP71-3-2	SEAD-71 TP71-4-2	SEAD-71 TP71-5-1	SEAD-71 TP71-6-1	SEAD-71 WS-71-A-009-9	SEAD-71 WS-71-B-009-6	SEAD-71 WS-71-B-009-8	SEAD-71 WS-71-D-009-13	SEAD-71 WS-71-D-009-2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	71003	71006	71007	71010	WS-71-A-009-9	WS-71-B-009-6	WS-71-B-009-8	WS-71-D-009-13	WS-71-D-009-2
	Sample Depth to Top of Sample (ft)	10.5	10	7	12.5	0	0	0	0	0
	Sample Depth to Bottom of Sample (ft)	11	10.5	7.5	13	0	0	0	0	0
	Sample Date	10/14/1997	10/14/1997	10/14/1997	10/15/1997	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	RI PHASE I STEP 1	RI PHASE I STEP 1	RI PHASE I STEP 1	RI PHASE I STEP 1	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pentachlorophenol	UG/KG	1800 U	190 U	190 U	190 U	940 U	910 U	920 U	5900 U	5600 U
Phenanthrene	UG/KG	3800	78 U	24 J	78 U	150 J	400	1600	500 J	980 J
Phenol	UG/KG	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100 U	1100 U
Pyrene	UG/KG	1700	78 U	44 J	6 J	300 J	1300	2700	1300	2200
Pyridine	UG/KG								5900 U	5600 U
Pesticides/PCBs										
4,4'-DDD	UG/KG	3.8 U	3.9 U	3.9 U	3.9 U	3.7 U	8 J	18 U	38 U	18 U
4,4'-DDE	UG/KG	3.8 U	3.9 U	3.9 U	3.9 U	14	36 J	100 J	38 U	54 J
4,4'-DDT	UG/KG	5.1 J	3.9 U	3.9 U	3.9 U	7.1	40	55	18 U	42
Aldrin	UG/KG	2 U	2 U	2 U	2 U	1.9 U	1.9 U	9.4 U	20 U	9.3 U
Alpha-BHC	UG/KG	2 U	2.9	4.9	18	1.9 U	1.9 U	9.4 U	20 U	9.3 U
Alpha-Chlordane	UG/KG	2 U	2 U	2 U	2 U	1.9 U	1.9 U	9.4 U	20 U	9.3 U
Beta-BHC	UG/KG	2 U	2 U	2.7	2.7	1.9 U	1.9 U	9.4 U	20 U	9.3 U
Delta-BHC	UG/KG	2 U	2 U	2 U	1.8 J	1.9 U	1.9 U	9.4 U	20 U	9.3 U
Dieldrin	UG/KG	3.8 U	3.9 U	3.9 U	3.9 U	3.7 U	3.7 U	18 U	38 U	18 U
Endosulfan I	UG/KG	2 U	2 U	2 U	2 U	1.9 U	1.9 U	9.4 U	20 U	9.3 U
Endosulfan II	UG/KG	3.8 U	3.9 U	3.9 U	3.9 U	3.7 U	3.7 U	18 U	38 U	18 U
Endosulfan sulfate	UG/KG	3.8 U	3.9 U	3.9 U	3.9 U	3.7 U	3.7 U	18 U	38 U	18 U
Endrin	UG/KG	3.7 J	3.9 U	3.9 U	3.9 U	3.7 U	3.7 U	18 U	38 U	18 U
Endrin aldehyde	UG/KG	7.2 J	3.9 U	3.9 U	3.9 U	3.7 U	3.7 U	18 U	38 U	18 U
Endrin ketone	UG/KG	2.2 J	3.9 U	3.9 U	3.9 U	3.7 U	3.7 U	18 U	38 U	18 U
Gamma-BHC/Lindane	UG/KG	2 U	2 U	2 U	4	1.9 U	1.9 U	9.4 U	20 U	9.3 U
Gamma-Chlordane	UG/KG	1.1 J	2 U	2 U	2 U	1.9 U	1.9 U	9.4 U	20 U	9.3 U
Heptachlor	UG/KG	2 U	2 U	2 U	2 U	1.9 U	1.9 U	9.4 U	20 U	9.3 U
Heptachlor epoxide	UG/KG	1.5 J	2 U	2 U	2 U	1.9 U	1.9 U	9.4 U	20 U	9.3 U
Methoxychlor	UG/KG	19 J	20 U	20 U	20 U	19 U	19 U	94 U	200 U	93 U
Toxaphene	UG/KG	200 U	200 U	200 U	200 U	190 U	190 U	940 U	380 U	180 U
Aroclor-1016	UG/KG	38 U	39 U	39 U	39 U	37 U	37 U	37 U	38 U	36 U
Aroclor-1221	UG/KG	77 U	79 U	80 U	79 U	37 U	37 U	37 U	38 U	36 U
Aroclor-1232	UG/KG	38 U	39 U	39 U	39 U	37 U	37 U	37 U	38 U	36 U
Aroclor-1242	UG/KG	38 U	39 U	39 U	39 U	37 U	37 U	37 U	38 U	36 U
Aroclor-1248	UG/KG	38 U	39 U	39 U	39 U	37 U	37 U	37 U	38 U	36 U
Aroclor-1254	UG/KG	38 U	39 U	39 U	39 U	37 U	37 U	37 U	38 U	36 U
Aroclor-1260	UG/KG	38 U	39 U	39 U	39 U	37 U	37 U	37 U	38 U	36 U
Metals										
Aluminum	MG/KG	8090 J	14500 J	12400	9400	13600	11000	9750	9490	10100
Antimony	MG/KG	0.56 UJ	0.68 UJ	0.65 UJ	0.64 UJ	2 J	9.2 J	5.9 J	11	3.2 UJ
Arsenic	MG/KG	4.3	3.1	5.3	4.1	7.4	6.9	5.5	5.4	5.6
Barium	MG/KG	51.3	94.1	78.1	48.8	92.4	95.1	83.6	89.2	75.3
Beryllium	MG/KG	0.21	0.56	0.31	0.31	0.7	0.57	0.49	0.17	0.28 J
Cadmium	MG/KG	0.08 U	0.09 U	0.09 U	0.09 U	0.49	0.46	0.44	0.28 U	0.42 J

**Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	TP71-3-2	TP71-4-2	TP71-5-1	TP71-6-1	WS-71-A-009-9	WS-71-B-009-6	WS-71-B-009-8	WS-71-D-009-13	WS-71-D-009-2
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	71003	71006	71007	71010	WS-71-A-009-9	WS-71-B-009-6	WS-71-B-009-8	WS-71-D-009-13	WS-71-D-009-2
	Sample Depth to Top of Sample ⁽¹⁾	10.5	10	7	12.5	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	11	10.5	7.5	13	0	0	0	0	0
	Sample Date	10/14/1997	10/14/1997	10/14/1997	10/15/1997	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
						1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Calcium	MG/KG	134000	36000	42800	46600	41100	44600	51800	45300	48600 J
Chromium	MG/KG	12.9	21.2	17.6	14.5	19.4 J	22.8	17.5	17.5	18.1
Cobalt	MG/KG	11	9	9.4	8.6	12.5 J	9.7 J	8.9 J	8.5	9.1
Copper	MG/KG	15.2	19.1	19.4	18.8	30.3	59.9	98.2	77.7	33.1
Cyanide	MG/KG	0.65 U	0.64 U	0.6 UJ	0.59 UJ					
Iron	MG/KG	18000	21600	21500	19200	28000 J	23000 J	19200 J	18800	24800 J
Lead	MG/KG	8.9 J	9.8 J	16	7.3	29.9 J	56.5 J	79.7 J	1010	97.5 J
Magnesium	MG/KG	6760 J	8120 J	10100	10100	7180 J	7330 J	15100 J	10100	9530 J
Manganese	MG/KG	784 J	345 J	623	345	446 J	582 J	454 J	435	516
Mercury	MG/KG	0.05 U	0.05 U	0.05 U	0.05 U	0.05	0.68	0.31	0.08	0.06
Nickel	MG/KG	26.2	28	34.1	23.3	37.1 J	26.9 J	26.9 J	25.4	24.1
Potassium	MG/KG	1120	2940	1950	1340	1410	1110	1230	1170	1300
Selenium	MG/KG	0.77 U	0.93 U	1.2	0.88 U	0.42 U	0.44 U	0.44 U	0.58 U	0.54 U
Silver	MG/KG	0.21 U	0.26 U	0.25 U	0.24 U	0.88	0.79	0.44 J	0.56 U	0.54 U
Sodium	MG/KG	83.3 U	109	108 U	138	135	103	120	76.1	78.1
Thallium	MG/KG	1.2 U	1.4 U	0.92 UJ	0.91 UJ	0.21 U	0.22 U	0.22 U	0.7 J	0.6 J
Vanadium	MG/KG	15.1	24.9	20.2	14.8	20	18.9	17.8	19.9	18.2
Zinc	MG/KG	57 J	61.5 J	82.1	73.4	75.5 J	122 J	104 J	114 J	93.8 J

Note(s):

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected, the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71
	Location ID	WS-71-E1-009-3	WS-71-E3-009-10
	Matrix	SOIL	SOIL
	Sample ID	WS-71-E1-009-3	WS-71-E3-009-10
Sample Depth to Top of Sample ⁽¹⁾		0	0
Sample Depth to Bottom of Sample ⁽¹⁾		0	0
Sample Date		5/6/2004	5/6/2004
QC Code		SA	SA
Study ID		ENSR IRM	ENSR IRM
		I	I
Parameter	Units	Value (Q)	Value (Q)
Volatile Organics			
1,1,1-Trichloroethane	UG/KG	5.5 U	5.8 U
1,1,2,2-Tetrachloroethane	UG/KG	5.5 U	5.8 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5.5 U	5.8 U
1,1,2-Trichloroethane	UG/KG		
1,1-Dichloroethane	UG/KG	5.5 U	5.8 U
1,1-Dichloroethene	UG/KG	5.5 U	5.8 U
1,2,3-Trichloropropane	UG/KG	5.5 U	5.8 U
1,2,4-Trichlorobenzene	UG/KG	5.5 U	5.8 U
1,2-Dibromo-3-chloropropane	UG/KG		
1,2-Dibromomethane	UG/KG		
1,2-Dichlorobenzene	UG/KG	5.5 U	5.8 U
1,2-Dichloroethane	UG/KG	5.5 U	5.8 U
1,2-Dichloroethene (total)	UG/KG		
1,2-Dichloropropane	UG/KG		
1,3-Dichlorobenzene	UG/KG	5.5 U	5.8 U
1,3-Dichloropropane	UG/KG	5.5 U	5.8 U
1,4-Dichlorobenzene	UG/KG	5.5 U	5.8 U
Acetone	UG/KG	22 U	23 U
Benzene	UG/KG	5.5 U	5.8 U
Bromodichloromethane	UG/KG		
Bromoform	UG/KG		
Carbon disulfide	UG/KG	5.5 U	5.8 U
Carbon tetrachloride	UG/KG	5.5 U	5.8 U
Chlorobenzene	UG/KG	5.5 U	5.8 U
Chlorodibromomethane	UG/KG	5.5 U	5.8 U
Chloroethane	UG/KG	11 U	12 U
Chloroform	UG/KG	5.5 U	5.8 U
Cis-1,2-Dichloroethene	UG/KG		
Cis-1,3-Dichloropropene	UG/KG		
Cyclohexane	UG/KG		
Dichlorodifluoromethane	UG/KG		
Ethyl benzene	UG/KG	5.5 U	5.8 U
Isopropylbenzene	UG/KG		

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71
Location ID	WS-71-E1-009-3	WS-71-E3-009-10	
Matrix	SOIL	SOIL	
Sample ID	WS-71-E1-009-3	WS-71-E3-009-10	
Sample Depth to Top of Sample ⁽¹⁾	0	0	
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	
Sample Date	5/6/2004	5/6/2004	
QC Code	SA	SA	
Study ID	ENSR IRM	ENSR IRM	
Parameter	Units	Value (Q)	Value (Q)
Meta/Para Xylene	UG/KG	5.5 U	5.8 U
Methyl Acetate	UG/KG		
Methyl Tertbutyl Ether	UG/KG		
Methyl bromide	UG/KG		
Methyl butyl ketone	UG/KG		
Methyl chloride	UG/KG		
Methyl cyclohexane	UG/KG		
Methyl ethyl ketone	UG/KG	11 U	12 U
Methyl isobutyl ketone	UG/KG	11 U	12 U
Methylene chloride	UG/KG	5.5 U	5.8 U
Ortho Xylene	UG/KG	5.5 U	5.8 U
Styrene	UG/KG		
Tetrachloroethene	UG/KG	5.5 U	5.8 U
Toluene	UG/KG	5.5 U	5.8 U
Total BTEX	MG/KG		
Total Xylenes	UG/KG		
Trans-1,2-Dichloroethene	UG/KG	5.5 U	5.8 U
Trans-1,3-Dichloropropene	UG/KG		
Trichloroethene	UG/KG	5.5 U	5.8 U
Trichlorofluoromethane	UG/KG		
Vinyl chloride	UG/KG	11 U	12 U
Semivolatile Organics			
1,1'-Biphenyl	UG/KG		
1,2,4-Trichlorobenzene	UG/KG		
1,2-Dichlorobenzene	UG/KG		
1,3-Dichlorobenzene	UG/KG		
1,4-Dichlorobenzene	UG/KG		
2,2'-oxybis(1-Chloropropane)	UG/KG		
2,4,5-Trichlorophenol	UG/KG	360 U	1900 U
2,4,6-Trichlorophenol	UG/KG	360 U	1900 U
2,4-Dichlorophenol	UG/KG	360 U	1900 U
2,4-Dimethylphenol	UG/KG		
2,4-Dinitrophenol	UG/KG	1900 U	9800 UJ
2,4-Dinitrotoluene	UG/KG	360 U	1900 U
2,6-Dinitrotoluene	UG/KG	360 U	1900 U
2-Chloronaphthalene	UG/KG		
2-Chlorophenol	UG/KG	360 U	1900 U
2-Methylnaphthalene	UG/KG	360 U	1900 U
2-Methylphenol	UG/KG	360 U	1900 U
2-Nitroaniline	UG/KG	1900 U	9800 U
2-Nitrophenol	UG/KG	360 U	1900 U
3,3'-Dichlorobenzidine	UG/KG	360 U	1900 U
3-Nitroaniline	UG/KG	1900 U	9800 U
4,6-Dinitro-2-methylphenol	UG/KG		
4-Bromophenyl phenyl ether	UG/KG		

Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71
	Location ID	WS-71-E1-009-3	WS-71-E3-009-10
	Matrix	SOIL	SOIL
	Sample ID	WS-71-E1-009-3	WS-71-E3-009-10
Sample Depth to Top of Sample ⁽¹⁾		0	0
Sample Depth to Bottom of Sample ⁽¹⁾		0	0
Sample Date		5/6/2004	5/6/2004
QC Code		SA	SA
Study ID		ENSR IRM	ENSR IRM
		↓	↓
Parameter	Units	Value (Q)	Value (Q)
4-Chloro-3-methylphenol	UG/KG	360 U	1900 U
4-Chloroaniline	UG/KG	360 U	1900 U
4-Chlorophenyl phenyl ether	UG/KG		
4-Methylphenol	UG/KG	360 U	1900 U
4-Nitroaniline	UG/KG		
4-Nitrophenol	UG/KG	1900 U	9800 U
Acenaphthene	UG/KG	43 J	1900 U
Acenaphthylene	UG/KG	48 J	1900 U
Acetophenone	UG/KG		
Aniline	UG/KG	360 U	1900 U
Anthracene	UG/KG	110 J	1900 U
Atrazine	UG/KG		
Benzaldehyde	UG/KG		
Benzo(a)anthracene	UG/KG	390	1900 U
Benzo(a)pyrene	UG/KG	330 J	1900 U
Benzo(b)fluoranthene	UG/KG	390	1900 U
Benzo(g,h)perylene	UG/KG	270 J	1900 U
Benzo(k)fluoranthene	UG/KG	370 J	1900 U
Benzoic Acid	UG/KG	1900 U	9800 U
Bis(2-Chloroethoxy)methane	UG/KG		
Bis(2-Chloroethyl)ether	UG/KG		
Bis(2-Chloroisopropyl)ether	UG/KG		
Bis(2-Ethylhexyl)phthalate	UG/KG	360 U	1900 U
Butylbenzylphthalate	UG/KG	360 U	1900 U
Caprolactam	UG/KG		
Carbazole	UG/KG		
Chrysene	UG/KG	510	1900 U
Di-n-butylphthalate	UG/KG	360 U	1900 U
Di-n-octylphthalate	UG/KG	360 U	1900 U
Dibenz(a,h)anthracene	UG/KG	86 J	1900 U
Dibenzofuran	UG/KG	360 U	1900 U
Diethyl phthalate	UG/KG	360 U	1900 U
Dimethylphthalate	UG/KG	360 U	1900 U
Fluoranthene	UG/KG	800	270 J
Fluorene	UG/KG	360 U	1900 U
Hexachlorobenzene	UG/KG	360 U	1900 U
Hexachlorobutadiene	UG/KG	360 U	1900 U
Hexachlorocyclopentadiene	UG/KG		
Hexachloroethane	UG/KG	360 U	1900 U
Indeno(1,2,3-cd)pyrene	UG/KG	250 J	1900 U
Isophorone	UG/KG	360 U	1900 U
N-Nitrosodiphenylamine	UG/KG		
N-Nitrosodipropylamine	UG/KG		
Naphthalene	UG/KG	360 U	1900 U
Nitrobenzene	UG/KG	360 U	1900 U

**Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-71	SEAD-71
	Location ID	WS-71-E1-009-3	WS-71-E3-009-10
	Matrix	SOIL	SOIL
	Sample ID	WS-71-E1-009-3	WS-71-E3-009-10
	Sample Depth to Top of Sample ⁽¹⁾	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0
	Sample Date	5/6/2004	5/6/2004
	QC Code	SA	SA
	Study ID	ENSR JRM	ENSR IRM
		J	J
Parameter	Units	Value (Q)	Value (Q)
Pentachlorophenol	UG/KG	1900 U	9800 U
Phenanthrene	UG/KG	300 J	1900 U
Phenol	UG/KG	360 U	1900 U
Pyrene	UG/KG	660	1900 U
Pyridine	UG/KG	1900 U	9800 U
Pesticides/PCBs			
4,4'-DDD	UG/KG	18 U	19 U
4,4'-DDE	UG/KG	18 U	19 U
4,4'-DDT	UG/KG	25	19 U
Aldrin	UG/KG	9.4 U	9.8 U
Alpha-BHC	UG/KG	9.4 U	9.8 U
Alpha-Chlordane	UG/KG	9.4 U	9.8 U
Beta-BHC	UG/KG	9.4 U	9.8 U
Delta-BHC	UG/KG	9.4 U	9.8 U
Dieldrin	UG/KG	18 U	19 U
Endosulfan I	UG/KG	9.4 U	9.8 U
Endosulfan II	UG/KG	18 U	19 U
Endosulfan sulfate	UG/KG	18 U	19 U
Endrin	UG/KG	18 U	19 U
Endrin aldehyde	UG/KG	18 U	19 U
Endrin ketone	UG/KG	18 U	19 U
Gamma-BHC/Lindane	UG/KG	9.4 U	9.8 U
Gamma-Chlordane	UG/KG	9.4 U	9.8 U
Heptachlor	UG/KG	9.4 U	9.8 U
Heptachlor epoxide	UG/KG	9.4 U	9.8 U
Methoxychlor	UG/KG	94 U	98 U
Toxaphene	UG/KG	180 U	190 U
Aroclor-1016	UG/KG	36 U	38 U
Aroclor-1221	UG/KG	36 U	38 U
Aroclor-1232	UG/KG	36 U	38 U
Aroclor-1242	UG/KG	36 U	38 U
Aroclor-1248	UG/KG	36 U	38 U
Aroclor-1254	UG/KG	36 U	38 U
Aroclor-1260	UG/KG	36 U	38 U
Metals			
Aluminum	MG/KG	13400	12600
Antimony	MG/KG	3.1 U	3.4 U
Arsenic	MG/KG	5.8	5 J
Barium	MG/KG	87	79.8
Beryllium	MG/KG	0.51 J	0.27
Cadmium	MG/KG	0.3 J	0.56 J

**Table D-4
SEAD-71 SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	SEAD-71	SEAD-71	
Facility	SEAD-71	SEAD-71	
Location ID	WS-71-E1-009-3	WS-71-E3-009-10	
Matrix	SOIL	SOIL	
Sample ID	WS-71-E1-009-3	WS-71-E3-009-10	
Sample Depth to Top of Sample ⁽¹⁾	0	0	
Sample Depth to Bottom of Sample ⁽²⁾	0	0	
Sample Date	5/6/2004	5/6/2004	
QC Code	SA	SA	
Study ID	ENSR IRM	ENSR IRM	
	1	1	
Parameter	Units	Value (Q)	Value (Q)
Calcium	MG/KG	20200 J	23600 J
Chromium	MG/KG	20.6	18.1
Cobalt	MG/KG	10.7	9.3
Copper	MG/KG	102	21.1
Cyanide	MG/KG		
Iron	MG/KG	25800 J	23300
Lead	MG/KG	19.2 J	15.1
Magnesium	MG/KG	5510 J	7680
Manganese	MG/KG	618	61.7
Mercury	MG/KG	0.04	0.04
Nickel	MG/KG	29.2	24.7
Potassium	MG/KG	1160	1030
Selenium	MG/KG	0.52 U	0.57 U
Silver	MG/KG	0.52 U	0.57 U
Sodium	MG/KG	52.1	57.4
Thallium	MG/KG	0.77 J	0.57 U
Vanadium	MG/KG	20	19.3
Zinc	MG/KG	89.3 J	67.9 J

Note(s).

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected

J = the reported value is an estimated concentration

UJ = the compound was not detected, the associated reporting limit is approximate

R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-A-F01	CL-71-A-WE1	CL-71-A-WN1	CL-71-A-WS1	CL-71-A-WW1	CL-71-B-F01	CL-71-B-WE2	CL-71-B-WN1	CL-71-B-WS1	CL-71-B-WW1	CL-71-B-WW1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-A-F01	CL-71-A-WE1	CL-71-A-WN1	CL-71-A-WS1	CL-71-A-WW1	CL-71-B-F01	CL-71-B-WE2	CL-71-B-WN1	CL-71-B-WS1	CL-71-B-WW1	CL-71-B-WW1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics												
1,1,1-Trichloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	2 NJ	6 U	5 U	5 U
1,1,2,2-Tetrachloroethane	UG/KG	5 UJ	5 U	5 UJ	5 UJ	5 UJ	5 UJ	6 UJ	5 R	6 UJ	5 UJ	5 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 UJ	6 UJ	5 UJ	6 UJ	5 UJ	5 UJ
1,1,2-Trichloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U	5 U
1,1-Dichloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U	5 U
1,1-Dichloroethene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U	5 U
1,2,3-Trichloropropane	UG/KG											
1,2,4-Trichlorobenzene	UG/KG	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	6 UJ	5 R	6 UJ	5 UJ	5 UJ
1,2-Dibromo-3-chloropropane	UG/KG	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	6 UJ	5 R	6 UJ	5 UJ	5 UJ
1,2-Dibromoethane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U	5 U
1,2-Dichlorobenzene	UG/KG	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	6 UJ	5 R	6 UJ	5 UJ	5 UJ
1,2-Dichloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U	5 U
1,2-Dichloroethene (total)	UG/KG											
1,2-Dichloropropane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U	5 U
1,3-Dichlorobenzene	UG/KG	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	6 UJ	5 R	6 UJ	5 UJ	5 UJ
1,3-Dichloropropane	UG/KG											
1,4-Dichlorobenzene	UG/KG	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	6 UJ	5 R	6 UJ	5 UJ	5 UJ
Acetone	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	4 NJ	54 J	4 NJ	5 U	5 U
Benzene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U	5 U
Bromodichloromethane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U	5 U
Bromoform	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U	5 U
Carbon disulfide	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 J	6 U	5 U	5 U
Carbon tetrachloride	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U	5 U
Chlorobenzene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U	5 U
Chlorodibromomethane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U	5 U
Chloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U	5 U
Chloroform	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U	5 U
Cis-1,2-Dichloroethene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U	5 U
Cis-1,3-Dichloropropene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U	5 U
Cyclohexane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U	5 U
Dichlorodifluoromethane	UG/KG	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	6 U	5 UJ	6 U	5 UJ	5 UJ
Ethyl benzene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U	5 U
Isopropylbenzene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U	5 U
Meta/Para Xylene	UG/KG											

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-A-F01	CL-71-A-WE1	CL-71-A-WN1	CL-71-A-WS1	CL-71-A-WW1	CL-71-B-F01	CL-71-B-WE2	CL-71-B-WN1	CL-71-B-WS1	CL-71-B-WW1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-A-F01	CL-71-A-WE1	CL-71-A-WN1	CL-71-A-WS1	CL-71-A-WW1	CL-71-B-F01	CL-71-B-WE2	CL-71-B-WN1	CL-71-B-WS1	CL-71-B-WW1
	Sample Depth to Top of Sample ¹¹	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ¹¹	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl Acetate	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Methyl Tertiary Ether	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Methyl bromide	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 UJ	5 UJ	6 UJ	5 U
Methyl butyl ketone	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Methyl chloride	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Methyl cyclohexane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	3 J	6 U	5 U
Methyl ethyl ketone	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Methyl isobutyl ketone	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Methylene chloride	UG/KG	5 U	5 U	6 U	5 U	5 U	5 U	6 U	7 U	6 U	9 U
Ortho Xylene	UG/KG										
Styrene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Tetrachloroethene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Toluene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	1 J	6 U	5 U
Total BTEX	MG/KG										
Total Xylenes	UG/KG	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	6 UJ	5 R	6 UJ	5 UJ
Trans-1,2-Dichloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Trans-1,3-Dichloropropene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Trichloroethene	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Trichlorofluoromethane	UG/KG	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 UJ	6 UJ	5 UJ	6 UJ	5 UJ
Vinyl chloride	UG/KG	5 U	5 U	5 U	5 U	5 U	5 U	6 U	5 UJ	6 U	5 U
Semivolatile Organics											
1,1'-Biphenyl	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
1,2,4-Trichlorobenzene	UG/KG										
1,2-Dichlorobenzene	UG/KG										
1,3-Dichlorobenzene	UG/KG										
1,4-Dichlorobenzene	UG/KG										
2,2'-oxybis(1-Chloropropane)	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
2,4,5-Trichlorophenol	UG/KG	1000 U	880 U	900 U	920 U	890 U	870 U	1000 U	2700 U	1000 U	920 U
2,4,6-Trichlorophenol	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
2,4-Dichlorophenol	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
2,4-Dimethylphenol	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
2,4-Dinitrophenol	UG/KG	1000 UJ	880 U	900 U	920 UJ	890 UJ	870 UJ	1000 UJ	2700 UJ	1000 UJ	920 UJ
2,4-Dinitrotoluene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
2,6-Dinitrotoluene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
2-Chloronaphthalene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
2-Chlorophenol	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
2-Methylnaphthalene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
2-Methylphenol	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
2-Nitroaniline	UG/KG	1000 U	880 U	900 U	920 U	890 U	870 U	1000 U	2700 U	1000 U	920 U
2-Nitrophenol	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
3,3'-Dichlorobenzidine	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 UJ	1100 U	400 U	360 U
3-Nitroaniline	UG/KG	1000 U	880 U	900 U	920 U	890 U	870 U	1000 U	2700 U	1000 U	920 U
4,6-Dinitro-2-methylphenol	UG/KG	1000 UJ	880 U	900 U	920 UJ	890 UJ	870 UJ	1000 UJ	2700 UJ	1000 UJ	920 UJ
4-Bromophenyl phenyl ether	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
4-Chloro-3-methylphenol	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility Location	SEAD-71 CL-71-A-F01	SEAD-71 CL-71-A-WE1	SEAD-71 CL-71-A-WN1	SEAD-71 CL-71-A-WS1	SEAD-71 CL-71-A-WW1	SEAD-71 CL-71-B-F01	SEAD-71 CL-71-B-WE2	SEAD-71 CL-71-B-WN1	SEAD-71 CL-71-B-WS1	SEAD-71 CL-71-B-WW1	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample ID	CL-71-A-F01	CL-71-A-WE1	CL-71-A-WN1	CL-71-A-WS1	CL-71-A-WW1	CL-71-B-F01	CL-71-B-WE2	CL-71-B-WN1	CL-71-B-WS1	CL-71-B-WW1	
Sample Depth to Top of Sample ¹³¹	0	0	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample ¹⁴¹	0	0	0	0	0	0	0	0	0	0	
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
4-Chloroaniline	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 UJ	1100 U	400 UJ	360 UJ
4-Chlorophenyl phenyl ether	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
4-Methylphenol	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
4-Nitroaniline	UG/KG	1000 U	880 U	900 U	920 U	890 U	870 U	1000 U	2700 U	1000 U	920 U
4-Nitrophenol	UG/KG	1000 U	880 U	900 U	920 U	890 U	870 U	1000 U	2700 U	1000 U	920 U
Acenaphthene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	57 J	1100 U	400 U	360 U
Acenaphthylene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	120 J	190 J	400 U	360 U
Acetophenone	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Aniline	UG/KG										
Anthracene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	260 J	320 J	140 J	360 U
Atrazine	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Benzaldehyde	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Benz(a)anthracene	UG/KG	55 J	350 U	360 U	61 J	41 J	50 J	1300 J	3100	470	360 U
Benz(a)pyrene	UG/KG	58 J	350 U	360 U	52 J	37 J	45 J	1400 J	2900	400	38 J
Benz(b)fluoranthene	UG/KG	85 J	350 U	360 U	69 NJ	55 NJ	64 NJ	1600 J	3600	690	54 NJ
Benz(ghi)perylene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	810 J	1200	180 J	360 U
Benz(k)fluoranthene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	1200 J	2100	270 J	360 U
Benzic Acid	UG/KG										
Bis(2-Chloroethoxy)methane	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Bis(2-Chloroethyl)ether	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Bis(2-Chloroisopropyl)ether	UG/KG										
Bis(2-Ethylhexyl)phthalate	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 UJ	1100 U	400 U	360 U
Butylbenzylphthalate	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 UJ	1100 U	400 U	360 U
Caprolactam	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Carbazole	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	120 J	1100 U	400 U	360 U
Chrysene	UG/KG	67 J	350 U	360 U	67 J	52 J	58 J	1800 J	3000	620	47 J
Di-n-butylphthalate	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Di-n-octylphthalate	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 UJ	1100 U	400 U	360 U
Dibenz(a,h)anthracene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	200 J	330 J	61 J	360 U
Dibenzofuran	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Diethyl phthalate	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Dimethyl phthalate	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Fluoranthene	UG/KG	120 J	350 U	360 U	110 J	99 J	110 J	2200	4200	740	70 J
Fluorene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	81 J	1100 U	400 U	360 U
Hexachlorobenzene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Hexachlorobutadiene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Hexachlorocyclopentadiene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Hexachloroethane	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Indeno(1,2,3-cd)pyrene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	730 J	1200	190 J	360 U
Isophorene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
N-Nitrosodiphenylamine	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
N-Nitrosodipropylamine	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Naphthalene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Nitrobenzene	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
Location ID	CL-71-A-F01	CL-71-A-WE1	CL-71-A-WN1	CL-71-A-WS1	CL-71-A-WW1	CL-71-B-F01	CL-71-B-WE2	CL-71-B-WN1	CL-71-B-WS1	CL-71-B-WW1	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample ID	CL-71-A-F01	CL-71-A-WE1	CL-71-A-WN1	CL-71-A-WS1	CL-71-A-WW1	CL-71-B-F01	CL-71-B-WE2	CL-71-B-WN1	CL-71-B-WS1	CL-71-B-WW1	
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pentachlorophenol	UG/KG	1000 U	880 U	900 U	920 U	890 U	870 U	1000 U	2700 U	1000 U	920 U
Phenanthrene	UG/KG	56 J	350 U	360 U	67 J	48 J	56 J	1200	810 J	320 J	360 U
Phenol	UG/KG	400 U	350 U	360 U	370 U	350 U	350 U	400 U	1100 U	400 U	360 U
Pyrene	UG/KG	110 J	350 U	360 U	110 J	84 J	98 J	3000	5800	1000	78 J
Pyridine	UG/KG										
Pesticides/PCBs											
4,4'-DDD	UG/KG	4 U	3.5 U	3.6 U	3.7 U	3.5 U	3.5 U	17	3.6 U	40 U	3.6 U
4,4'-DDE	UG/KG	4 U	3.5 U	3.6 U	3.7 U	3.5 U	3.5 U	16 NJ	6.8 J	190	3.6 U
4,4'-DDT	UG/KG	4 U	3.5 U	3.6 U	3.7 U	3.5 U	3.5 U	14 J	3.6 U	82	3.6 U
Aldrin	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Alpha-BHC	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Alpha-Chlordane	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Beta-BHC	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Delta-BHC	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Dieldrin	UG/KG	4 U	3.5 U	3.6 U	3.7 U	3.5 U	3.5 U	4 U	3.6 U	40 U	3.6 U
Endosulfan I	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Endosulfan II	UG/KG	4 U	3.5 U	3.6 U	3.7 U	3.5 U	3.5 U	4 U	3.6 U	40 U	3.6 U
Endosulfan sulfate	UG/KG	4 U	3.5 U	3.6 U	3.7 U	3.5 U	3.5 U	4 U	3.6 U	40 U	3.6 U
Endrin	UG/KG	4 U	3.5 U	3.6 U	3.7 U	3.5 U	3.5 U	4 U	3.6 U	40 U	3.6 U
Endrin aldehyde	UG/KG	4 U	3.5 U	3.6 U	3.7 U	3.5 U	3.5 U	4 U	3.6 U	40 U	3.6 U
Endrin ketone	UG/KG	4 U	3.5 U	3.6 U	3.7 U	3.5 U	3.5 U	4 U	3.6 U	40 U	3.6 U
Gamma-BHC/Lindane	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Gamma-Chlordane	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Heptachlor	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Heptachlor epoxide	UG/KG	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.1 U	1.8 U	21 U	1.9 U
Methoxychlor	UG/KG	20 U	18 U	18 U	19 U	18 U	18 U	21 U	18 U	210 U	19 U
Toxaphene	UG/KG	200 U	180 U	180 U	190 U	180 U	180 U	210 U	180 U	2100 U	190 U
Aroclor-1016	UG/KG	40 U	35 U	36 U	38 U	36 U	35 U	41 U	36 U	41 U	37 U
Aroclor-1221	UG/KG	40 U	35 U	36 U	38 U	36 U	35 U	41 U	36 U	41 U	37 U
Aroclor-1232	UG/KG	40 U	35 U	36 U	38 U	36 U	35 U	41 U	36 U	41 U	37 U
Aroclor-1242	UG/KG	40 U	35 U	36 U	38 U	36 U	35 U	41 U	36 U	41 U	37 U
Aroclor-1248	UG/KG	40 U	35 U	36 U	38 U	36 U	35 U	41 U	36 U	41 U	37 U
Aroclor-1254	UG/KG	40 U	35 U	36 U	38 U	36 U	35 U	41 U	36 U	41 U	37 U
Aroclor-1260	UG/KG	40 U	35 U	36 U	38 U	36 U	35 U	200 J	36 U	41 U	37 U
Metals											
Aluminum	MG/KG	14600 J	6120 J	7660 J	13400 J	10800 J	7920 J	8110 J	13300 J	9640 J	8650 J
Antimony	MG/KG	1.8 J	0.96 J	1.3 J	1.6 J	1.5 J	1 J	11.5 J	1.6 J	3.8 J	0.88 J
Arsenic	MG/KG	4.6	4.3	4.9	5.2	6.2	5.2	6.2 J	5.9	6.7 J	4.9 J
Barium	MG/KG	114 J	54.9 J	47 J	119 J	61.9 J	54.1 J	78.1 J	80.1 J	82.2 J	56.2 J

**Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-A-F01	CL-71-A-WE1	CL-71-A-WN1	CL-71-A-WS1	CL-71-A-WW1	CL-71-B-F01	CL-71-B-WE2	CL-71-B-WN1	CL-71-B-WS1	CL-71-B-WW1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-A-F01	CL-71-A-WE1	CL-71-A-WN1	CL-71-A-WS1	CL-71-A-WW1	CL-71-B-F01	CL-71-B-WE2	CL-71-B-WN1	CL-71-B-WS1	CL-71-B-WW1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I	I	I	I	I	I	I	I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Beryllium	MG/KG	0.82	0.31	0.42	0.76	0.56	0.39	0.46	0.67	0.51	0.42
Cadmium	MG/KG	0.3 J	0.17 J	0.2 J	0.3 J	0.29 J	0.19 J	0.39	0.27 J	0.39	0.27 J
Calcium	MG/KG	6940 J	79800 J	83200 J	10300 J	32200 J	55000 J	36700 J	9130 J	47800 J	54700 J
Chromium	MG/KG	22.7 J	10 J	12.4 J	22.1 J	16.3 J	11.9 J	14 J	19 J	15.5 J	13.7 J
Cobalt	MG/KG	11.4 J	6.1 J	6.4 J	8.8 J	8.4 J	8.5 J	8.2 J	11.2 J	9.2 J	8.1 J
Copper	MG/KG	25.8 J	18.7 J	20.1 J	26.1 J	19.7 J	18.9 J	35.5 J	21.8 J	48.8 J	21.4 J
Cyanide	MG/KG										
Iron	MG/KG	25600	13200	15300	24900	20700	18300	15900 J	22800	20000 J	19700 J
Lead	MG/KG	17.4 J	7.4 J	12.7 J	19.1 J	13.5 J	11.9 J	635 J	17.9 J	452 J	17.9 J
Magnesium	MG/KG	4890 J	15300 J	9380 J	5580 J	8350 J	9620 J	8170 J	4880 J	7260 J	11100 J
Manganese	MG/KG	488 J	373 J	541 J	297 J	476 J	481 J	456 J	473 J	498 J	407 J
Mercury	MG/KG	0.07	0.02 J	0.02 J	0.05	0.04	0.03 J	0.43 J	0.06	1 J	0.02 J
Nickel	MG/KG	35.4 J	18 J	20.5 J	32.6 J	24.1 J	21.2 J	25.3 J	27 J	26.6 J	25 J
Potassium	MG/KG	1620	878	910	1260	965	863	960 J	969	1110 J	869 J
Selenium	MG/KG	0.45 U	0.41 U	0.43 U	0.42 U	0.43 U	0.39 U	0.46 U	0.4 U	0.47 U	0.41 U
Silver	MG/KG	1.6	0.1 U	0.4 J	1.4	0.92	0.41 J	0.74 J	1.2	0.55 J	0.32 J
Sodium	MG/KG	79.7	143	145	60.4	94.6	112	71.6 J	48.4	68.7	94.1 J
Thallium	MG/KG	0.22 U	0.2 U	0.22 U	0.21 U	0.21 U	0.2 U	0.23 U	0.2 U	0.24 U	0.21 U
Vanadium	MG/KG	20.4 J	11.3 J	12.9 J	19.6 J	17.2 J	12.9 J	15 J	19.9 J	24 J	15.4 J
Zinc	MG/KG	88.7	45.3	57.6	81.9	69.8	56.8	128 J	70	83.3 J	56 J

Notes

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected; the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-WE1	CL-71-C-WE2	CL-71-C-WN1	CL-71-C-WS1	CL-71-C-WW2	CL-71-D-F01	CL-71-D-WE1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-WE1	CL-71-C-WE2	CL-71-C-WN1	CL-71-C-WS1	CL-71-C-WW2	CL-71-D-F01	CL-71-D-WE1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics											
1,1,1-Trichloroethane	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
1,1,2,2-Tetrachloroethane	UG/KG	6 UJ	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 UJ	5 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
1,1,2-Trichloroethane	UG/KG	6 U								5 U	5 U
1,1-Dichloroethane	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
1,1-Dichloroethene	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
1,2,3-Trichloropropane	UG/KG	6 UJ	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U		
1,2,4-Trichlorobenzene	UG/KG	6 UJ	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 UJ	5 UJ
1,2-Dibromo-3-chloropropane	UG/KG	6 UJ								5 UJ	5 UJ
1,2-Dibromoethane	UG/KG	6 U								5 U	5 U
1,2-Dichlorobenzene	UG/KG	6 UJ	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 UJ	5 UJ
1,2-Dichloroethane	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
1,2-Dichloroethene (total)	UG/KG										
1,2-Dichloropropane	UG/KG	6 U								5 U	5 U
1,3-Dichlorobenzene	UG/KG	6 UJ	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 UJ	5 UJ
1,3-Dichloropropane	UG/KG	6 UJ	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U		
1,4-Dichlorobenzene	UG/KG	6 UJ	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 UJ	5 UJ
Acetone	UG/KG	6 U	22 U	22 U	22 U	22 U	22 U	22 U	22 U	5 U	5 U
Benzene	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Bromodichloromethane	UG/KG	6 U								5 U	5 U
Bromoform	UG/KG	6 U								5 U	5 U
Carbon disulfide	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Carbon tetrachloride	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Chlorobenzene	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Chlorodibromomethane	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Chloromethane	UG/KG	6 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	5 U	5 U
Chloroform	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Cis-1,2-Dichloroethene	UG/KG	6 U								5 U	5 U
Cis-1,3-Dichloropropene	UG/KG	6 U								5 U	5 U
Cyclohexane	UG/KG	6 U								5 U	5 U
Dichlorodifluoromethane	UG/KG	6 UJ								5 U	5 U
Ethyl benzene	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	5 U
Isopropylbenzene	UG/KG	6 U								5 U	5 U
Meta/Para Xylene	UG/KG		5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U		

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
Location ID	CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-WE1	CL-71-C-WE2	CL-71-C-WN1	CL-71-C-WS1	CL-71-C-WW2	CL-71-D-F01	CL-71-D-WE1	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample ID	CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-WE1	CL-71-C-WE2	CL-71-C-WN1	CL-71-C-WS1	CL-71-C-WW2	CL-71-D-F01	CL-71-D-WE1	
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	
Units	1	1	1	1	1	1	1	1	1	1	
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Methyl Acetate	UG/KG	6 U							5 U	5 U	
Methyl Tertiary Ether	UG/KG	6 U							5 U	5 U	
Methyl bromide	UG/KG	6 U							5 U	5 U	
Methyl butyl ketone	UG/KG	6 U							5 U	5 U	
Methyl chloride	UG/KG	6 U							5 U	5 U	
Methyl cyclohexane	UG/KG	6 U							5 U	5 U	
Methyl ethyl ketone	UG/KG	6 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	5 U	
Methyl isobutyl ketone	UG/KG	6 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	5 U	
Methylene chloride	UG/KG	11 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	
Ortho Xylene	UG/KG		5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U		
Styrene	UG/KG	6 U								5 U	
Tetrachloroethene	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	
Toluene	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	
Total BTEX	MG/KG										
Total Xylenes	UG/KG	6 U								5 U	
Trans-1,2-Dichloroethene	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	
Trans-1,3-Dichloropropene	UG/KG	6 U								5 U	
Trichloroethene	UG/KG	6 U	5.5 U	5.5 U	5.5 U	5.5 U	5.4 U	5.4 U	5.6 U	5 U	
Trichlorofluoromethane	UG/KG	6 U								5 U	
Vinyl chloride	UG/KG	6 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	5 U	
Semivolatile Organics											
1,1'-Biphenyl	UG/KG	390 U							360 U	370 U	
1,2,4-Trichlorobenzene	UG/KG										
1,2-Dichlorobenzene	UG/KG										
1,3-Dichlorobenzene	UG/KG										
1,4-Dichlorobenzene	UG/KG										
2,2'-oxybis(1-Chloropropane)	UG/KG	390 U							360 U	370 U	
2,4,5-Trichlorophenol	UG/KG	990 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	900 U	
2,4,6-Trichlorophenol	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	
2,4-Dichlorophenol	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	370 U	
2,4-Dimethylphenol	UG/KG	390 U								360 U	
2,4-Dinitrophenol	UG/KG	990 U	1900 U	1900 U	1900 U	1900 U	9200 U	9200 U	1900 U	900 U	
2,4-Dinitrotoluene	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	
2,6-Dinitrotoluene	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	
2-Chloronaphthalene	UG/KG	390 U								360 U	
2-Chlorophenol	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	
2-Methylnaphthalene	UG/KG	390 U	61 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	
2-Methylphenol	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	
2-Nitroaniline	UG/KG	990 U	1900 U	1900 U	1900 U	1900 U	9200 U	9200 U	1900 U	900 U	
2-Nitrophenol	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	
3,3'-Dichlorobenzidine	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	
3-Nitroaniline	UG/KG	990 U	1900 U	1900 U	1900 U	1900 U	9200 U	9200 U	1900 U	900 U	
4,6-Dinitro-2-methylphenol	UG/KG	990 U								900 U	
4-Bromophenyl phenyl ether	UG/KG	390 U								360 U	
4-Chloro-3-methylphenol	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	370 U	

**Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
Location ID	CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-WE1	CL-71-C-WE2	CL-71-C-WN1	CL-71-C-WS1	CL-71-C-WW2	CL-71-D-F01	CL-71-D-WE1	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample ID	CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-WE1	CL-71-C-WE2	CL-71-C-WN1	CL-71-C-WS1	CL-71-C-WW2	CL-71-D-F01	CL-71-D-WE1	
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
4-Chloroaniline	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
4-Chlorophenyl phenyl ether	UG/KG	390 U								360 U	370 U
4-Methylphenol	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
4-Nitroaniline	UG/KG	990 U								900 U	940 U
4-Nitrophenol	UG/KG	990 U	1900 U	1900 U	1900 U	1900 U	9200 U	9200 U	1900 U	900 U	940 U
Acenaphthene	UG/KG	390 U	300 J	360 U	360 U	360 U	1800 U	1500 J	370 U	40 J	80 J
Acenaphthylene	UG/KG	390 U	360 U	120 J	360 U	360 U	1800	1500 J	44 J	33 J	85 J
Acetophenone	UG/KG	390 U								360 U	370 U
Aniline	UG/KG		360 U	360 U	360 U	360 U	1800 U	1800 U	370 U		
Anthracene	UG/KG	390 U	570	77 J	360 U	360 U	1100 J	5000	370 U	110 J	220 J
Atrazine	UG/KG	390 U								360 U	370 U
Benzaldehyde	UG/KG	390 U								360 U	370 U
Benzo(a)anthracene	UG/KG	390 U	1000	310 J	360 U	360 U	4700	10000	130 J	410	500
Benzo(a)pyrene	UG/KG	390 U	800	500	360 U	360 U	6500	9000	170 J	410	450
Benzo(b)fluoranthene	UG/KG	390 U	570	520	40 J	360 U	5900	6700	140 J	540	640
Benzo(ghi)perylene	UG/KG	390 U	380	590	360 U	360 U	5800	5200	120 J	230 J	300 J
Benzo(k)fluoranthene	UG/KG	390 U	670	460	360 U	360 U	5500	7700	140 J	200 J	230 J
Benzoic Acid	UG/KG		1900 U	1900 U	1900 U	1900 U	9200 U	9200 U	1900 U		
Bis(2-Chloroethoxy)methane	UG/KG	390 U								360 U	370 U
Bis(2-Chloroethyl)ether	UG/KG	390 U								360 U	370 U
Bis(2-Chloroisopropyl)ether	UG/KG										
Bis(2-Ethylhexyl)phthalate	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	83 J
Butylbenzylphthalate	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
Caprolactam	UG/KG	390 U								360 U	370 U
Carbazole	UG/KG	390 U								53 J	110 J
Chrysene	UG/KG	390 U	880	510	45 J	360 U	6300	10000	150 J	410 NJ	490
Di-n-butylphthalate	UG/KG	390 U	360 U	360 U	41 J	70 J	1800 U	1800 U	370 U	360 U	370 U
Di-n-octylphthalate	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
Dibenz(a,h)anthracene	UG/KG	390 U	170 J	140 J	360 U	360 U	1700 J	1900 J	44 J	67 J	75 J
Dibenzofuran	UG/KG	390 U	140 J	360 U	360 U	360 U	1800 U	1400 J	370 U	23 J	41 J
Diethyl phthalate	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
Dimethylphthalate	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
Fluoranthene	UG/KG	390 U	2000	370 J	50 J	360 U	7700	27000	200 J	770	930
Fluorene	UG/KG	390 U	250 J	360 U	360 U	360 U	1800 U	2500	370 U	36 J	72 J
Hexachlorobenzene	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
Hexachlorobutadiene	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
Hexachlorocyclopentadiene	UG/KG	390 U								360 U	370 U
Hexachloroethane	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
Indeno(1,2,3-cd)pyrene	UG/KG	390 U	420 J	450 J	360 U	360 U	4900 J	5200 J	110 J	260 J	300 J
Isophorone	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
N-Nitrosodiphenylamine	UG/KG	390 U								360 U	370 U
N-Nitrosodipropylamine	UG/KG	390 U								360 U	370 U
Naphthalene	UG/KG	390 U	86 J	360 U	360 U	360 U	1800 U	1100 J	370 U	360 U	370 U
Nitrobenzene	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Parameter	Units	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
		CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-AWE1	CL-71-C-AWE2	CL-71-C-AWN1	CL-71-C-WS1	CL-71-C-AWW2	CL-71-D-F01	CL-71-D-WF1
Location ID	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Matrix	CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-AWE1	CL-71-C-AWE2	CL-71-C-AWN1	CL-71-C-WS1	CL-71-C-AWW2	CL-71-D-F01	CL-71-D-WF1	
Sample ID	CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-AWE1	CL-71-C-AWE2	CL-71-C-AWN1	CL-71-C-WS1	CL-71-C-AWW2	CL-71-D-F01	CL-71-D-WF1	
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Pentachlorophenol	UG/KG	900 U	1900 U	1900 U	1900 U	1900 U	9200 U	9200 U	1900 U	900 U	920 U
Phenanthrene	UG/KG	390 U	1700	71 J	360 U	360 U	1300 J	25000	81 J	290 J	550
Phenol	UG/KG	390 U	360 U	360 U	360 U	360 U	1800 U	1800 U	370 U	360 U	370 U
Pyrene	UG/KG	390 U	1500	400	43 J	360 U	8100	20000	290 U	730	860
Pyridine	UG/KG		1900 U	1900 U	1900 U	1900 U	9200 U	9200 U	1900 U		
Pesticides/PCBs											
4,4'-DDD	UG/KG	3.9 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U	3.5 U	4.2
4,4'-DDE	UG/KG	3.9 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U	9.2 J	29 J
4,4'-DDT	UG/KG	3.9 U	22 U	22 U	22 U	22 U	59	22 J	22 U	6.8 NJ	17
Aldrin	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Alpha-BHC	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Alpha-Chlordane	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Beta-BHC	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Delta-BHC	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Dieldrin	UG/KG	3.9 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U	3.5 U	3.8 U
Endosulfan I	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Endosulfan II	UG/KG	3.9 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U	3.5 U	3.8 U
Endosulfan sulfate	UG/KG	3.9 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U	3.5 U	3.8 U
Endrin	UG/KG	3.9 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U	3.5 U	3.8 U
Endrin aldehyde	UG/KG	3.9 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U	3.5 U	3.8 U
Endrin ketone	UG/KG	3.9 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U	3.5 U	3.8 U
Gamma-BHC/Chlordane	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Gamma-Chlordane	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Heptachlor	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Heptachlor epoxide	UG/KG	2 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1.8 U	1.9 U
Methoxychlor	UG/KG	20 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	18 U	19 U
Toxaphene	UG/KG	200 U	220 U	220 U	220 U	220 U	210 U	210 U	220 U	180 U	190 U
Aroclor-1016	UG/KG	40 U	36 U	36 U	36 U	36 U	36 U	36 U	37 U	36 U	38 U
Aroclor-1221	UG/KG	40 U	36 U	36 U	36 U	36 U	36 U	36 U	37 U	36 U	38 U
Aroclor-1232	UG/KG	40 U	36 U	36 U	36 U	36 U	36 U	36 U	37 U	36 U	38 U
Aroclor-1242	UG/KG	40 U	36 U	36 U	36 U	36 U	36 U	36 U	37 U	36 U	38 U
Aroclor-1248	UG/KG	40 U	36 U	36 U	36 U	36 U	36 U	36 U	37 U	36 U	38 U
Aroclor-1254	UG/KG	40 U	36 U	36 U	36 U	36 U	36 U	36 U	37 U	36 U	38 U
Aroclor-1260	UG/KG	40 U	36 U	36 U	36 U	36 U	36 U	120	37 U	36 U	38 U
Metals											
Aluminum	MG/KG	10600 J	10300	12200	12600	13500	10000	6370	12100	10200 J	12900 J
Antimony	MG/KG	1.4 J	3.1 U	3.2 U	3.1 U	3.3 U	3.2 U	3.2 U	3.3 U	1.4 J	2.2 J
Arsenic	MG/KG	6.2 J	5.1	6.4	4.5	5.1	8	11.8	5.3	6.9	6.9
Barium	MG/KG	70.3 J	86.7	68.3	80	115	114	59.2	75.4	64.4 J	88.9 J

**Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-WE1	CL-71-C-WE2	CL-71-C-WN1	CL-71-C-WS1	CL-71-C-WW2	CL-71-D-F01	CL-71-D-WE1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-B-WW2	CL-71-C-F01	CL-71-C-F02	CL-71-C-WE1	CL-71-C-WE2	CL-71-C-WN1	CL-71-C-WS1	CL-71-C-WW2	CL-71-D-F01	CL-71-D-WE1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Beryllium	MG/KG	0.55	0.33	0.35	0.46	0.44	0.31	0.11	0.4	0.53	0.63
Cadmium	MG/KG	0.34 J	0.26 U	0.27 U	0.26 U	0.32 J	0.7	0.49 J	0.28 U	0.24 J	0.28 J
Calcium	MG/KG	33800 J	22400	6860	11600	14100	47400	66300	11800	29500	30800
Chromium	MG/KG	15.3 J	16.9	21	18.8	19.5	37.1	18.5	19.3	15.7 J	19.2 J
Cobalt	MG/KG	9.6 J	9.6	11.1	8.6	11.5	10.3	8.2	10.6	8.9	10.3
Copper	MG/KG	20.1 J	22.2	21.7	17.2	16.4	67.7	32.3	21.2	22 J	29.4 J
Cyanide	MG/KG										
Iron	MG/KG	20900 J	21300	26300	21800	25500	28300	15600	23300	20100 J	24400 J
Lead	MG/KG	14.3 J	17.1	18.6	21.5	12.4	169	188	16.1	14.7 J	48.3 J
Magnesium	MG/KG	9110 J	6630	4440	3800	4400	4940	14300	5490	8470 J	7320 J
Manganese	MG/KG	575 J	516	538	467	1040	641	460	488	539 J	634 J
Mercury	MG/KG	0.03 J	0.05	0.03	0.05	0.03	0.11	0.04	0.04	0.07	0.07
Nickel	MG/KG	25.7 J	27.1	31.3	24.2	26.8	28.6	29.6	30.3	25.1 J	29.2 J
Potassium	MG/KG	918 J	1050	1170	918	1090	1150	1020	1020	886	1210
Selenium	MG/KG	0.46 U	0.52 U	0.53 U	0.52 U	0.55 U	0.53 U	1.3	0.56 U	0.37 U	0.41 U
Silver	MG/KG	0.75 J	0.52 U	0.53 U	0.52 U	0.55 U	0.53 U	0.53 U	0.56 U	0.73	1.1
Sodium	MG/KG	73.8 J	65.8	42.5 J	45.3 J	43.1 J	141	139	40.3 J	76.2	62.5
Thallium	MG/KG	0.23 U	0.71 J	0.67 J	0.71 J	1 J	1 J	0.68 J	0.75 J	0.19 U	0.21 U
Vanadium	MG/KG	16.5 J	16.8	20.1	19.9	21.5	19.4	16.4	20	15.7 J	19.2 J
Zinc	MG/KG	64.5 J	62.6	89.9	69.3	75.7	161	357	66.5	62.8 J	95.4 J

Notes:

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected; the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-D-WN1	CL-71-D-WS1	CL-71-D-WW3	CL-71-E1-F01	CL-71-E1-WE1	CL-71-E1-WN1	CL-71-E1-WS1	CL-71-E1-WW1	CL-71-E2-F01	CL-71-E2-WE1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-D-WN1	CL-71-D-WS1	CL-71-D-WW3	CL-71-E1-F01	CL-71-E1-WE1	CL-71-E1-WN1	CL-71-E1-WS1	CL-71-E1-WW1	CL-71-E2-F01	CL-71-E2-WE1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽²⁾	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics											
1,1,1-Trichloroethane	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6.1 U
1,1,2,2-Tetrachloroethane	UG/KG	5 UJ	5 UJ		5.5 U	5.5 U	5 UJ	5 R	5 R	6 U	6.1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	5 U	5 U		5.5 U	5.5 U	5 UJ	5 UJ	5 UJ	6 U	6.1 U
1,1,2-Trichloroethane	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
1,1-Dichloroethane	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6.1 U
1,1-Dichloroethene	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6.1 U
1,2,3-Trichloropropane	UG/KG				5.5 U	5.5 U				6 U	6.1 U
1,2,4-Trichlorobenzene	UG/KG	5 UJ	5 UJ		5.5 U	5.5 U	5 UJ	5 R	5 R	6 U	6.1 U
1,2-Dibromo-3-chloropropane	UG/KG	5 UJ	5 UJ				5 UJ	5 R	5 R	6 U	6.1 U
1,2-Dibromoethane	UG/KG	5 U	5 U				5 U	5 UJ	5 UJ	6 UJ	
1,2-Dichlorobenzene	UG/KG	5 UJ	5 UJ		5.5 U	5.5 U	5 UJ	5 R	5 R	6 U	6.1 U
1,2-Dichloroethane	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6.1 U
1,2-Dichloroethene (total)	UG/KG										
1,2-Dichloropropane	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
1,3-Dichlorobenzene	UG/KG	5 UJ	5 UJ		5.5 U	5.5 U	5 UJ	5 R	5 R	6 U	6.1 U
1,3-Dichloropropane	UG/KG				5.5 U	5.5 U				6 U	6.1 U
1,4-Dichlorobenzene	UG/KG	5 UJ	5 UJ		5.5 U	5.5 U	5 UJ	5 R	5 R	6 U	6.1 U
Acetone	UG/KG	5 U	5 U		22 U	22 U	30 U	35 U	37 U	4 UJ	24 UJ
Benzene	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6.1 U
Bromodichloromethane	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Bromoform	UG/KG	5 U	5 U				5 U	5 UJ	5 UJ	6 UJ	
Carbon disulfide	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6.1 U
Carbon tetrachloride	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 UJ	6.1 U
Chlorobenzene	UG/KG	5 U	5 U		5.5 U	5.5 U	5 UJ	5 UJ	5 UJ	6 U	6.1 U
Chlorodibromomethane	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 UJ	5 UJ	6 U	6.1 U
Chloroethane	UG/KG	5 U	5 U		11 U	11 U	5 U	5 U	5 U	12 U	12 U
Chloroform	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6.1 U
Cis-1,2-Dichloroethene	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Cis-1,3-Dichloropropene	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Cyclohexane	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Dichlorodifluoromethane	UG/KG	5 U	5 U				5 UJ	5 UJ	5 UJ	6 U	6.1 U
Ethyl benzene	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 UJ	5 UJ	6 U	6.1 U
Isopropylbenzene	UG/KG	5 U	5 U				5 U	5 UJ	5 UJ	6 U	
Meta/Para Xylene	UG/KG				5.5 U	5.5 U					6.1 U

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-D-WN1	CL-71-D-WS1	CL-71-D-WW3	CL-71-E1-F01	CL-71-E1-WE1	CL-71-E1-WN1	CL-71-E1-WS1	CL-71-E1-WW1	CL-71-E2-F01	CL-71-E2-WE1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-D-WN1	CL-71-D-WS1	CL-71-D-WW3	CL-71-E1-F01	CL-71-E1-WE1	CL-71-E1-WN1	CL-71-E1-WS1	CL-71-E1-WW1	CL-71-E2-F01	CL-71-E2-WE1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl Acetate	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Methyl Tertbutyl Ether	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Methyl bromide	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Methyl butyl ketone	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Methyl chloride	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Methyl cyclohexane	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Methyl ethyl ketone	UG/KG	5 U	5 U		11 U	11 U	5 U	5 U	5 U	6 U	12 U
Methyl isobutyl ketone	UG/KG	5 U	5 U		11 U	11 U	5 U	5 U	5 U	6 U	12 U
Methylene chloride	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	6 U	1 U	6.1 U
Ortho Xylene	UG/KG				5.5 U	5.5 U					6.1 U
Styrene	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Tetrachloroethene	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6.1 U
Toluene	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6.1 U
Total BTEX	MG/KG										
Total Xylenes	UG/KG	5 U	5 U				5 U	5 R	5 R	6 U	
Trans-1,2-Dichloroethene	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6.1 U
Trans-1,3-Dichloropropene	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Trichloroethene	UG/KG	5 U	5 U		5.5 U	5.5 U	5 U	5 U	5 U	6 U	6.1 U
Trichlorofluoromethane	UG/KG	5 U	5 U				5 U	5 U	5 U	6 U	
Vinyl chloride	UG/KG	5 U	5 U		11 U	11 U	5 U	5 U	5 U	6 U	12 U
Semivolatile Organics											
1,1'-Biphenyl	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
1,2,4-Trichlorobenzene	UG/KG										
1,2-Dichlorobenzene	UG/KG										
1,3-Dichlorobenzene	UG/KG										
1,4-Dichlorobenzene	UG/KG										
2,2'-oxybis(1-Chloropropane)	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
2,4,5-Trichlorophenol	UG/KG	880 U	900 U	5500 U	360 U	360 U	920 U	900 U	870 U	970 U	2000 U
2,4,6-Trichlorophenol	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
2,4-Dichlorophenol	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
2,4-Dimethylphenol	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
2,4-Dinitrophenol	UG/KG	880 U	900 U	29000 U	1900 U	1900 U	920 U	900 U	870 U	970 U	10000 U
2,4-Dinitrotoluene	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
2,6-Dinitrotoluene	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
2-Chloronaphthalene	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
2-Chlorophenol	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
2-Methylnaphthalene	UG/KG	81 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
2-Methylphenol	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
2-Nitroaniline	UG/KG	880 U	900 U	29000 U	1900 U	1900 U	920 U	900 U	870 U	970 U	10000 U
2-Nitrophenol	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
3,3'-Dichlorobenzidine	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
3-Nitroaniline	UG/KG	880 U	900 U	29000 U	1900 U	1900 U	920 U	900 U	870 U	970 U	10000 U
4,6-Dinitro-2-methylphenol	UG/KG	880 U	900 U				920 U	900 U	870 U	970 U	
4-Bromophenyl phenyl ether	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
4-Chloro-3-methylphenol	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Parameter	Units	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
		CL-71-D-WN1	CL-71-D-WS1	CL-71-D-WW3	CL-71-E1-F01	CL-71-E1-WE1	CL-71-E1-WN1	CL-71-E1-WS1	CL-71-E1-WW1	CL-71-E2-F01	CL-71-E2-WE1
4-Chloroaniline	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
4-Chlorophenyl phenyl ether	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
4-Methylphenol	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
4-Nitroaniline	UG/KG	880 U	900 U				920 U	900 U	870 U	970 U	
4-Nitrophenol	UG/KG	880 U	900 U	20000 U	1900 U	1900 U	920 U	900 U	870 U	970 U	10000 U
Acenaphthene	UG/KG	340 J	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	420 J
Acenaphthylene	UG/KG	39 J	360 U	5500 U	360 U	360 U	370 U	360 U	370 U	390 U	1200 J
Acetophenone	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
Aniline	UG/KG			5500 U	360 U	360 U					2000 U
Anthracene	UG/KG	640	360 U	5500 U	360 U	360 U	45 J	360 U	36 J	94 J	1800 J
Atrazine	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
Benzaldehyde	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
Benzo(a)anthracene	UG/KG	1300	40 J	1600 J	360 U	360 U	300 J	130 J	140 J	330 J	9000
Benzo(a)pyrene	UG/KG	1100	51 J	1500 J	360 U	360 U	390	150 J	180 J	250 J	8800
Benzo(h)fluoranthene	UG/KG	1500	83 J	1300 J	360 U	360 U	720	310 J	400	380 J	7400
Benzo(ghi)perylene	UG/KG	530	40 J	1000 J	360 U	360 U	260 J	110 J	130 J	110 J	5300
Benzo(k)fluoranthene	UG/KG	560	360 U	1300 J	360 U	360 U	370	170 J	190 J	170 J	8000
Benzoic Acid	UG/KG			29000 U	1900 U	1900 U					10000 U
Bis(2-Chloroethoxy)methane	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
Bis(2-Chloroethyl)ether	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
Bis(2-Chloroisopropyl)ether	UG/KG										
Bis(2-Ethylhexyl)phthalate	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Butylbenzylphthalate	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Caprolactam	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
Cathazole	UG/KG	540	360 U				370 U	360 U	340 U	390 U	
Chrysene	UG/KG	1300	49 J	2000 J	360 U	360 U	490	240 J	280 J	360 J	10000
Di-n-butylphthalate	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Di-n-octylphthalate	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Dibenz(a,h)anthracene	UG/KG	160 J	360 U	5500 U	360 U	360 U	65 J	360 U	340 U	390 U	2000 J
Dibenzofuran	UG/KG	240 J	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	210 J
Diethyl phthalate	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Dimethylphthalate	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Fluoranthene	UG/KG	3600	82 J	3900 J	360 U	360 U	440	280 J	270 J	690	22000
Fluorene	UG/KG	350 J	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	540 J
Hexachlorobenzene	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Hexachlorobutadiene	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Hexachlorocyclopentadiene	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
Hexachloroethane	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Indene(1,2,3-cd)pyrene	UG/KG	630	39 J	970 J	360 U	360 U	250 J	100 J	130 J	110 J	5400 J
Isophorone	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
N-Nitrosodiphenylamine	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
N-Nitrosodipropylamine	UG/KG	350 U	360 U				370 U	360 U	340 U	390 U	
Naphthalene	UG/KG	250 J	360 U	1000 J	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Nitrobenzene	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
Location ID	CL-71-D-WN1	CL-71-D-WS1	CL-71-D-WW3	CL-71-E1-F01	CL-71-E1-WE1	CL-71-E1-WN1	CL-71-E1-WS1	CL-71-E1-WW1	CL-71-E2-F01	CL-71-E2-WE1	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample ID	CL-71-D-WN1	CL-71-D-WS1	CL-71-D-WW3	CL-71-E1-F01	CL-71-E1-WE1	CL-71-E1-WN1	CL-71-E1-WS1	CL-71-E1-WW1	CL-71-E2-F01	CL-71-E2-WE1	
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0	
Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	
Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Pentachlorophenol	UG/KG	880 U	900 U	29000 U	1900 U	1900 U	920 U	900 U	870 U	970 U	10000 U
Fluoranthrene	UG/KG	2700	34 J	2100 J	360 U	360 U	60 J	78 J	400	400	12000
Phenol	UG/KG	350 U	360 U	5500 U	360 U	360 U	370 U	360 U	340 U	390 U	2000 U
Pyrene	UG/KG	2800	77 J	2700 J	360 U	360 U	440	250 J	250 J	730	17000
Pyridine	UG/KG			29000 U	1900 U	1900 U					10000 U
Pesticides/PCBs											
4,4'-DDD	UG/KG	3.5 U	3.5 U	37 U	22 U	22 U	4.7 NJ	3.6 U	3.8 J	3.9 J	20 U
4,4'-DDE	UG/KG	12 NJ	170	37 U	22 U	22 U	3.7 U	3.6 U	3.4 U	6.3 NJ	20 U
4,4'-DDT	UG/KG	7.7 J	54	110	22 U	22 U	7.2	3.6 U	3.4 U	9 J	20 U
Aldrin	UG/KG	1.8 U	18 U	19 U	11 U	11 U	1.9 U	1.8 U	1.8 U	2 U	10 U
Alpha-BHC	UG/KG	1.8 U	18 U	19 U	11 U	11 U	1.9 U	1.8 U	1.8 U	2 U	10 U
Alpha-Chlordane	UG/KG	1.8 U	18 U	19 U	11 U	11 U	1.9 U	1.8 U	1.8 U	2 U	10 U
Beta-BHC	UG/KG	1.8 U	18 U	19 U	11 U	11 U	1.9 U	1.8 U	1.8 U	2 U	10 U
Delta-BHC	UG/KG	1.8 U	18 U	19 U	11 U	11 U	1.9 U	1.8 U	1.8 U	2 U	10 U
Dieldrin	UG/KG	3.5 U	35 U	37 U	22 U	22 U	3.7 U	3.6 U	3.4 U	3.8 U	20 U
Endosulfan I	UG/KG	1.8 U	18 U	19 U	11 U	11 U	1.9 U	1.8 U	1.8 U	2 U	10 U
Endosulfan II	UG/KG	3.5 U	35 U	37 U	22 U	22 U	3.7 U	3.6 U	3.4 U	3.8 U	20 U
Endosulfan sulfate	UG/KG	3.5 U	35 U	37 U	22 U	22 U	3.7 U	3.6 U	3.4 U	3.8 U	20 U
Endrin	UG/KG	3.5 U	35 U	37 U	22 U	22 U	3.7 U	3.6 U	3.4 U	3.8 U	20 U
Endrin aldehyde	UG/KG	3.5 U	35 U	37 U	22 U	22 U	3.7 U	3.6 U	3.4 U	3.8 U	20 U
Endrin ketone	UG/KG	3.5 U	35 U	37 U	22 U	22 U	3.7 U	3.6 U	3.4 U	3.8 U	20 U
Gamma-BHC/Lindane	UG/KG	1.8 U	18 U	19 U	11 U	11 U	1.9 U	1.8 U	1.8 U	2 U	10 U
Gamma-Chlordane	UG/KG	1.8 U	18 U	19 U	11 U	11 U	1.9 U	1.8 U	1.8 U	2 U	10 U
Heptachlor	UG/KG	1.8 U	18 U	19 U	11 U	11 U	1.9 U	1.8 U	1.8 U	2 U	10 U
Heptachlor epoxide	UG/KG	1.8 U	18 U	19 U	11 U	11 U	1.9 U	1.8 U	1.8 U	2 U	10 U
Methoxychlor	UG/KG	18 U	180 U	190 U	110 U	110 U	19 U	18 U	18 U	20 U	100 U
Toxaphene	UG/KG	180 U	1800 U	370 U	220 U	220 U	190 U	180 U	180 U	200 U	200 U
Aroclor-1016	UG/KG	36 U	36 U	37 U	36 U	36 U	37 U	36 U	35 U	39 U	40 U
Aroclor-1221	UG/KG	36 U	36 U	37 U	36 U	36 U	37 U	36 U	35 U	39 U	40 U
Aroclor-1232	UG/KG	36 U	36 U	37 U	36 U	36 U	37 U	36 U	35 U	39 U	40 U
Aroclor-1242	UG/KG	36 U	36 U	37 U	36 U	36 U	37 U	36 U	35 U	39 U	40 U
Aroclor-1248	UG/KG	36 U	36 U	37 U	36 U	36 U	37 U	36 U	35 U	39 U	40 U
Aroclor-1254	UG/KG	36 U	36 U	37 U	36 U	36 U	37 U	36 U	35 U	39 U	40 U
Aroclor-1260	UG/KG	36 U	36 U	80	36 U	36 U	37 U	36 U	35 U	39 U	40 U
Metals											
Aluminum	MG/KG	12300 J	11900 J	6680	13800	13000	14300 J	13200 J	13600 J	12600 J	12900
Antimony	MG/KG	2.1 J	1.4 J	6.9	3.3 UJ	3.2 UJ	1.5 J	1.8 J	2.3 J	1.2 J	3.6 UJ
Arsenic	MG/KG	6.9	4.5	4.5	5.7	5.4	6.7	6.6	6.6	7.1 J	5.2 J
Barium	MG/KG	85.7 J	82.6 J	59.9	89.4	85.4	136 J	87.7 J	92.6 J	79.7 J	72.4

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-D-WN1	CL-71-D-WS1	CL-71-D-WW3	CL-71-E1-F01	CL-71-E1-WE1	CL-71-E1-WN1	CL-71-E1-WS1	CL-71-E1-WW1	CL-71-E2-F01	CL-71-E2-WE1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-D-WN1	CL-71-D-WS1	CL-71-D-WW3	CL-71-E1-F01	CL-71-E1-WE1	CL-71-E1-WN1	CL-71-E1-WS1	CL-71-E1-WW1	CL-71-E2-F01	CL-71-E2-WE1
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1	1	1	1	1	1	1	1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Beryllium	MG/KG	0.65	0.6	0.13	0.51	0.46	0.85	0.69	0.71	0.64	0.36
Cadmium	MG/KG	0.37	0.26 J	0.42 J	0.27 U	0.27 U	0.36	0.29 J	0.3 J	0.31 J	0.3 U
Calcium	MG/KG	31000	26800	59600	9420	9090	7460 J	7370 J	11500 J	21300 J	22160
Chromium	MG/KG	18.8 J	16.9 J	14.9	20.6	19.1	20.5 J	19.1 J	19.6 J	19.1 J	19.3
Cobalt	MG/KG	10.4	9.7	6.3	12.4	11.2	11.1 J	10.4 J	9.3 J	10.3 J	11.1
Copper	MG/KG	26.9 J	25.6 J	61.4	18.3	16.2	22.4 J	20.1 J	24.5 J	25.1 J	17.6
Cyanide	MG/KG										
Iron	MG/KG	23300 J	22500 J	15000	26100	24000	25300	24300	24000	26000 J	23700 J
Lead	MG/KG	42.8 J	17.5 J	568	12.2	12.1	18.7 J	16.8 J	25.1 J	28.7 J	11.4
Magnesium	MG/KG	6620 J	8450 J	11800	4370	3800	4220 J	3980 J	3890 J	6420 J	4320
Manganese	MG/KG	563 J	582 J	296	753	741	737 J	742 J	679 J	621 J	647
Mercury	MG/KG	0.08	0.04	0.3	0.03	0.04	0.1	0.06	0.04	0.04 J	0.04 J
Nickel	MG/KG	28.1 J	25.6 J	19.4	29.1	25.4	26.7 J	24.5 J	24.3 J	30.8 J	26.4
Potassium	MG/KG	1120	1020	834	961	901	1150	815	901	1020 J	859
Selenium	MG/KG	0.38 U	0.38 U	0.54 U	0.55 U	0.54 U	0.44 U	0.4 U	0.4 U	0.47 U	0.6 U
Silver	MG/KG	0.86	0.96	0.55 U	0.55 U	0.54 U	1.8	1.7	1.6	1 J	0.6 U
Sodium	MG/KG	67.8	65.8	77.9	33.2 J	35.6 J	53.9	46.4	51.6	51.1	43.8 J
Thallium	MG/KG	0.19 U	0.19 U	0.55 U	0.95 J	1.1 J	0.22 U	0.2 U	0.2 U	0.23 U	0.64 J
Vanadium	MG/KG	20.8 J	18.7 J	15.7	20	19.8	20.6 J	19.1 J	20 J	18.9 J	19.3
Zinc	MG/KG	81.6 J	63 J	157 J	75.4	66	76.3	69.2	83.1	73.4 J	68.0 J

Note(s)

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
 - (2) - Sample Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis
- U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected, the associated reporting limit is approximate
R = the data was rejected in the data validating process
NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Parameter	Units	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
		CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-F01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	SS71-1	SS71-10
Location ID	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Sample Date	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	RI PHASE I STEP 1	RI PHASE I STEP 1
Sample Depth to Top of Sample ⁽¹⁾	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
Sample Date	QC Code	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	11/19/1997	11/19/1997
Sample ID	QC Code	CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-F01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	71013	71017
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics											
1,1,1-Trichloroethane	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12 U
1,1,2,2-Tetrachloroethane	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U		
1,1,2-Trichloroethane	UG/KG	6 U								13 U	12 U
1,1-Dichloroethane	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12 U
1,1-Dichloroethene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12 U
1,2,3-Trichloropropane	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U		
1,2,4-Trichlorobenzene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U		
1,2-Dibromo-3-chloropropane	UG/KG	6 U									
1,2-Dibromoethane	UG/KG	6 U									
1,2-Dichlorobenzene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U		
1,2-Dichloroethane	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12 U
1,2-Dichloroethene (total)	UG/KG									13 U	12 U
1,2-Dichloropropane	UG/KG	6 U								13 U	12 U
1,3-Dichlorobenzene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U		
1,3-Dichloropropane	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U		
1,4-Dichlorobenzene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U		
Acetone	UG/KG	6 U	23 U	24 U	24 U	23 U	23 U	24 U	24 U	13 U	12 U
Benzene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	2 U	12 U
Bromodichloromethane	UG/KG	6 U								13 U	12 U
Bromofom	UG/KG	6 U								13 U	12 U
Carbon disulfide	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12 U
Carbon tetrachloride	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12 U
Chlorobenzene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12 U
Chlorodibromomethane	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12 U
Chloroethane	UG/KG	6 U	12 U	12 U	12 U	11 U	12 U	12 U	12 U	13 U	12 U
Chloroform	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12 U
Cis-1,2-Dichloroethene	UG/KG	6 U									
Cis-1,3-Dichloropropene	UG/KG	6 U								13 U	12 U
Cyclohexane	UG/KG	6 U									
Dichlorodifluoromethane	UG/KG	6 U									
Ethyl benzene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U	13 U	12 U
Isopropylbenzene	UG/KG	6 U									
Meta/Para Xylene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	5.9 U		

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	
	Location ID	CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-F01	CL-71-E3-F01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	SS71-1	SS71-10
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-F01	CL-71-E3-F01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	71011	71017
	Sample Depth to Top of Sample (ft)	0	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample (ft)	0	0	0	0	0	0	0	0	0	0.2	0.2
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	11/19/1997	11/19/1997
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
		1	1	1	1	1	1	1	1	1		
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl Acetate	UG/KG	6 U										
Methyl Tertiary Ether	UG/KG	6 U										
Methyl bromide	UG/KG	6 U									13 U	12 U
Methyl butyl ketone	UG/KG	6 U									13 U	12 U
Methyl chloride	UG/KG	6 U									13 U	12 U
Methyl cyclohexane	UG/KG	6 U										
Methyl ethyl ketone	UG/KG	6 U	12 U	12 U	12 U	11 U	12 U	12 U	12 U	12 U	13 U	12 U
Methyl isobutyl ketone	UG/KG	6 U	12 U	12 U	12 U	11 U	12 U	12 U	12 U	12 U	13 U	12 U
Methylene chloride	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	6 U	5.9 U	2 U	12 U
Ortho Xylene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	6 U	5.9 U		
Styrene	UG/KG	6 U									13 U	12 U
Tetrachloroethene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	6 U	5.9 U	13 U	12 U
Toluene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	6 U	5.9 U	4 U	12 U
Total BTEX	MG/KG											
Total Xylenes	UG/KG	6 U									13 U	12 U
Trans-1,2-Dichloroethane	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	6 U	5.9 U		
Trans-1,3-Dichloropropene	UG/KG	6 U									13 U	12 U
Trichloroethene	UG/KG	6 U	5.8 U	6 U	6 U	5.7 U	5.8 U	6 U	6 U	5.9 U	13 U	12 U
Trichlorofluoromethane	UG/KG	6 U										
Vinyl chloride	UG/KG	6 U	12 U	12 U	12 U	11 U	12 U	12 U	12 U	12 U	13 U	12 U
Semivolatile Organics												
1,1'-Biphenyl	UG/KG	400 U										
1,2,4-Trichlorobenzene	UG/KG										300 U	93 U
1,2-Dichlorobenzene	UG/KG										300 U	93 U
1,3-Dichlorobenzene	UG/KG										300 U	93 U
1,4-Dichlorobenzene	UG/KG										300 U	93 U
2,2'-oxybis(1-Chloropropane)	UG/KG	400 U										
2,4,5-Trichlorophenol	UG/KG	1000 U	1900 U	390 U	390 U	370 U	380 U	380 U	400 U	1200 U	720 U	220 U
2,4,6-Trichlorophenol	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	380 U	400 U	1200 U	300 U	93 U
2,4-Dichlorophenol	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	380 U	400 U	1200 U	300 U	93 U
2,4-Dimethylphenol	UG/KG	400 U									300 U	93 U
2,4-Dinitrophenol	UG/KG	1000 U	9900 U	2000 U	2000 U	1900 U	2000 U	2000 U	2000 U	6000 U	720 U	220 U
2,4-Dinitrotoluene	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	380 U	400 U	1200 U	300 U	93 U
2,6-Dinitrotoluene	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	380 U	400 U	1200 U	300 U	93 U
2-Chloronaphthalene	UG/KG	400 U									300 U	93 U
2-Chlorophenol	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	380 U	400 U	1200 U	300 U	93 U
2-Methylnaphthalene	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	380 U	400 U	1200 U	72 U	86 U
2-Methylphenol	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	380 U	400 U	1200 U	300 U	93 U
2-Nitroaniline	UG/KG	1000 U	9900 U	2000 U	2000 U	1900 U	2000 U	2000 U	2000 U	6000 U	720 U	220 U
2-Nitrophenol	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	380 U	400 U	1200 U	300 U	93 U
1,3-Dichlorobenzidine	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	380 U	400 U	1200 U	300 U	93 U
3-Nitroaniline	UG/KG	1000 U	9900 U	2000 U	2000 U	1900 U	2000 U	2000 U	2000 U	6000 U	720 U	220 U
4,6-Dinitro-2-methylphenol	UG/KG	1000 U									720 U	220 U
4-Bromophenyl phenyl ether	UG/KG	400 U									300 U	93 U
4-Chloro-3-methylphenol	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	380 U	400 U	1200 U	300 U	93 U

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-F01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	SS71-1	SS71-10
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-F01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	71013	71017
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0.2	0.2
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	11/19/1997	11/19/1997
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	RI PHASE I STEP I	RI PHASE I STEP I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
4-Chloroaniline	UG/KG	400 UJ	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93 U
4-Chlorophenyl phenyl ether	UG/KG	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	300 U	93 U
4-Methylphenol	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93 U
4-Nitroaniline	UG/KG	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	720 U	220 U
4-Nitrophenol	UG/KG	1000 U	9900 U	2000 U	2000 U	1900 U	2000 U	2000 U	6000 U	720 U	220 U
Acenaphthene	UG/KG	400 U	1400 J	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	22 J
Acenaphthylene	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93 U
Acetophenone	UG/KG	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U
Aniline	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93 U
Anthracene	UG/KG	400 U	3900	390 U	390 U	370 U	380 U	400 U	1200 U	68 J	47 J
Atrazine	UG/KG	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U
Benzaldehyde	UG/KG	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U
Benzo(a)anthracene	UG/KG	400 U	9100	390 U	390 U	370 U	380 U	400 U	240 J	500	220
Benzo(a)pyrene	UG/KG	400 U	6100	390 U	390 U	370 U	380 U	400 U	250 J	550	220
Benzo(b)fluoranthene	UG/KG	400 U	5000	390 U	390 U	370 U	380 U	400 U	300 J	750	280
Benzo(g)hperylene	UG/KG	400 U	3300	390 U	390 U	370 U	380 U	400 U	230 J	370	140
Benzo(k)fluoranthene	UG/KG	400 U	5500	390 U	390 U	370 U	380 U	400 U	290 J	750	250
Benzoic Acid	UG/KG	400 U	9900 U	2000 U	2000 UJ	1900 UJ	2000 UJ	2000 UJ	6000 UJ	300 U	93 U
Bis(2-Chloroethoxy)methane	UG/KG	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	300 U	93 U
Bis(2-Chloroethyl)ether	UG/KG	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	300 U	93 U
Bis(2-Chloroisopropyl)ether	UG/KG	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	300 U	93 U
Bis(2-Ethylhexyl)phthalate	UG/KG	400 U	1900 U	390 U	390 U	370 U	39 J	400 U	1200 U	300 U	93 U
Butylbenzylphthalate	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93 U
Caprolactam	UG/KG	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U
Carbazole	UG/KG	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	110 J	75 J
Chrysene	UG/KG	400 U	8800 J	390 U	390 U	370 U	380 U	43 J	370 J	930	290
Di-n-butylphthalate	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93 U
Di-n-octylphthalate	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93 U
Dibenz(a,h)anthracene	UG/KG	400 U	1400 J	390 U	390 U	370 U	380 U	400 U	1200 U	130 J	51 J
Dibenzofuran	UG/KG	400 U	260 J	390 U	390 U	370 U	380 U	400 U	1200 U	100 J	13 J
Diethyl phthalate	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93 U
Dimethylphthalate	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93 U
Fluoranthene	UG/KG	400 U	23000	390 U	390 U	370 U	380 U	58 J	640 J	1100	480
Fluorene	UG/KG	400 U	770 J	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	18 J
Hexachlorobenzene	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93 U
Hexachlorocyclopentadiene	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93 U
Hexachlorocyclopentadiene	UG/KG	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	300 U	93 U
Hexachloromethane	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93 U
Indeno(1,2,3-cd)pyrene	UG/KG	400 U	3300 J	390 U	390 U	370 U	380 U	400 U	190 J	360	140
Isophorone	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93 U
N-Nitrosodiphenylamine	UG/KG	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	300 U	93 U
N-Nitrosodipropylamine	UG/KG	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	300 U	93 U
Naphthalene	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	78 J	93 U
Nitrobenzene	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93 U

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-F01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	SS71-1	SS71-10
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-F01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	71013	71017
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0.2	0.2
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	11/19/1997	11/19/1997
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
	Units	l	l	l	l	l	l	l	l	l	l
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pentachlorophenol	UG/KG	1000 U	9900 U	2000 U	2000 U	1900 U	2000 U	2000 U	6000 U	720 U	220 U
Phenanthrene	UG/KG	400 U	15000	390 U	390 U	370 U	380 U	400 U	210 U	440	310
Phenol	UG/KG	400 U	1900 U	390 U	390 U	370 U	380 U	400 U	1200 U	300 U	93 U
Pyrene	UG/KG	400 U	17000	390 U	390 U	370 U	380 U	400 U	400 U	900	380
Pyridine	UG/KG		9900 U	2000 U	2000 U	1900 U	2000 U	2000 U	6000 U		
Pesticides/PCBs											
4,4'-DDD	UG/KG	4 U	19 U	20 U	20 U	19 U	19 U	20 U	19 U	5.9	4.6 U
4,4'-DDF	UG/KG	4 U	19 U	20 U	20 U	19 U	19 U	20 U	19 U	88	22
4,4'-DDT	UG/KG	4 U	19 U	120	20 U	19 U	19 U	20 U	19 U	54	25
Aldrin	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	2.3 U	2.4 U
Alpha-BHC	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	2.2 U	2.4 U
Alpha-Chlordane	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	2.3 U	2.4 U
Beta-BHC	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	2.3 U	2.4 U
Delta-BHC	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	2.3 U	2.4 U
Dieldrin	UG/KG	4 U	19 U	20 U	20 U	19 U	19 U	20 U	19 U	4.4 U	4.6 U
Endosulfan I	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	2.3 U	2.4 U
Endosulfan II	UG/KG	4 U	19 U	20 U	20 U	19 U	19 U	20 U	19 U	4.4 U	4.6 U
Eridosulfan sulfate	UG/KG	4 U	19 U	20 U	20 U	19 U	19 U	20 U	19 U	2.7 U	4.6 U
Endrin	UG/KG	4 U	19 U	20 U	20 U	19 U	19 U	20 U	19 U	6.5	4.6 U
Endrin aldehyde	UG/KG	4 U	19 U	20 U	20 U	19 U	19 U	20 U	19 U	4.8	4.6 U
Endrin ketone	UG/KG	4 U	19 U	20 U	20 U	19 U	19 U	20 U	19 U	7.7	17
Gamma-BHC Lindane	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	2.3 U	2.4 U
Gamma-Chlordane	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	1.2 U	2.4 U
Hepachlor	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	2.3 U	2.4 U
Hepachlor epoxide	UG/KG	2 U	10 U	10 U	10 U	9.6 U	9.8 U	10 U	10 U	4.5	2.4 U
Methoxychlor	UG/KG	20 U	99 U	100 U	100 U	96 U	98 U	100 U	100 U	23 U	24 U
Toxaphene	UG/KG	200 U	190 U	200 U	200 U	190 U	190 U	200 U	190 U	230 U	240 U
Aroclor-1016	UG/KG	40 U	39 U	39 U	39 U	37 U	38 U	40 U	39 U	44 U	46 U
Aroclor-1221	UG/KG	40 U	39 U	39 U	39 U	37 U	38 U	40 U	39 U	90 U	94 U
Aroclor-1212	UG/KG	40 U	39 U	39 U	39 U	37 U	38 U	40 U	39 U	44 U	46 U
Aroclor-1242	UG/KG	40 U	39 U	39 U	39 U	37 U	38 U	40 U	39 U	44 U	46 U
Aroclor-1248	UG/KG	40 U	39 U	39 U	39 U	37 U	38 U	40 U	39 U	44 U	46 U
Aroclor-1254	UG/KG	40 U	39 U	39 U	39 U	37 U	38 U	40 U	39 U	44 U	46 U
Aroclor-1260	UG/KG	40 U	39 U	39 U	39 U	37 U	38 U	40 U	39 U	44 U	46 U
Metals											
Aluminum	MG/KG	13900 J	11500	10900	14200	11400	15000	14900	11000	7250	9080
Antimony	MG/KG	1.8 J	3.3 UJ	3.4 UJ	3.5 UJ	3.4 UJ	3.5 UJ	3.5 UJ	3.5 UJ	1.9 J	0.95 UJ
Arsenic	MG/KG	7.5 J	4.7 J	5.2 J	4.9 J	4.5 J	5.1 J	4.8 J	4.8 J	4.9	7.4
Barium	MG/KG	71.7 J	66	94.8	90.6	82.9	85.2	116	55.5	51.2 J	53.4 J

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-F01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	SS71-1	SS71-10
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	CL-71-E2-WN1	CL-71-E2-WS1	CL-71-E2-WW1	CL-71-E3-F01	CL-71-E3-WE1	CL-71-E3-WN1	CL-71-E3-WS1	CL-71-E3-WW1	71013	71017
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0	0	0	0	0	0	0.2	0.2
	Sample Date	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	5/6/2004	11/19/1997	11/19/1997
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM	RI PHASE I STEP I	RI PHASE I STEP I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Beryllium	MG/KG	0.64	0.36	0.34	0.35	0.21	0.41	0.43	0.27	0.26 J	0.25
Cadmium	MG/KG	0.27 J	0.28 U	0.33	0.53 J	0.55 J	0.71	0.53 J	0.71	0.08 UJ	0.08 UJ
Calcium	MG/KG	11000 J	32800	32400	6040 J	34500 J	6060 J	18800 J	70700 J	35100	11100
Chromium	MG/KG	19.3 J	20.4	18.7	19.8	16.3	22.2	21.3	15	13.4 J	14.2 J
Cobalt	MG/KG	11.9 J	10.9	8.8	10.4	8.6	9.7	13.9	9.9	7.4	8.7
Copper	MG/KG	19.4 J	38.9	23.3	19.1	20.7	20.3	22.6	16.5	47.7 J	28.8 J
Cyanide	MG/KG									0.67 U	0.74 U
Iron	MG/KG	27200 J	23100 J	20300 J	26100	22000	29700	27900	19400	31800	24100
Lead	MG/KG	10.9 J	363	99.2	12.1	12.9	13	17.8	19.8	185 J	28.5 J
Magnesium	MG/KG	4550 J	8350	8730	4730	11100	4520	7040	6780	5050	4170
Manganese	MG/KG	771 J	453	503	849	555	470	1330	615	383 J	554 J
Mercury	MG/KG	0.04 J	0.07	0.06	0.04	0.03 J	0.04 J	0.04	0.03 J	0.14 J	0.07 UJ
Nickel	MG/KG	29 J	33.2	24.4	26.8	22.5	29.5	30	20.1	19.9	110
Potassium	MG/KG	810 J	1110	1150	970	992	1100	1100	908	1330	1030
Selenium	MG/KG	0.47 U	0.55 U	0.56 U	0.58 U	0.56 U	0.58 U	0.58 U	0.58 U	1.4 J	1.8 J
Silver	MG/KG	1.4 J	0.55 U	0.56 U	0.58 U	0.56 U	0.58 U	0.58 U	0.58 U	0.54 UJ	0.57 UJ
Sodium	MG/KG	39.9	68.6	50.1 J	37.2 J	70	46.4 J	49.2 J	78.4	215	636
Thallium	MG/KG	0.24 U	0.57 J	0.67 J	0.6 J	0.56 U	0.58 U	0.83 J	0.58 U	1.6 U	1.7 U
Vanadium	MG/KG	17.9 J	19.1	20.7	20.3	18.3	21.1	21.6	19.3	16	13.7
Zinc	MG/KG	66.4 J	97.1 J	97.5 J	66.7 J	59.5 J	79.1 J	71.3 J	51.8 J	95.3 J	1740 J

Note(s):

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected, the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility Location ID	SEAD-71 SS71-14	SEAD-71 SS71-2	SEAD-71 SS71-3	SEAD-71 SS71-4	SEAD-71 SS71-8	SEAD-71 SS71-9	SEAD-71 TP71-1	SEAD-71 TP71-1	SEAD-71 TP71-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	71025	71014	71015	71016	71019	71018	TP71-1-1	TP71-1-2	TP71-1-3
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	3	3	3
	Sample Depth to Bottom of Sample ⁽¹⁾	0.2	0.2	0.2	0.2	0.2	0.2	3	3	3
	Sample Date	11/20/1997	11/19/1997	11/19/1997	11/19/1997	11/19/1997	11/19/1997	6/7/1994	6/7/1994	6/7/1994
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	ESI	ESI	ESI
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics										
1,1,1-Trichloroethane	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	4 J	7 J	10 J
1,1,2,2-Tetrachloroethane	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG									
1,1,2-Trichloroethane	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
1,1-Dichloroethane	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
1,1-Dichloroethene	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
1,2,3-Trichloropropane	UG/KG									
1,2,4-Trichlorobenzene	UG/KG									
1,2-Dibromo-3-chloropropane	UG/KG									
1,2-Dibromoethane	UG/KG									
1,2-Dichlorobenzene	UG/KG									
1,2-Dichloroethane	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
1,2-Dichloroethene (total)	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
1,2-Dichloropropane	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
1,3-Dichlorobenzene	UG/KG									
1,3-Dichloropropane	UG/KG									
1,4-Dichlorobenzene	UG/KG									
Acetone	UG/KG	74	8 J	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Benzene	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Bromodichloromethane	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Bromoform	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Carbon disulfide	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Carbon tetrachloride	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Chlorobenzene	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Chlorodibromomethane	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Chloroethane	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Chloroform	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Cis-1,2-Dichloroethene	UG/KG									
Cis-1,3-Dichloropropene	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Cyclohexane	UG/KG									
Dichlorodifluoromethane	UG/KG									
Ethyl benzene	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Isopropylbenzene	UG/KG									
Meta-Para Xylene	UG/KG									

**Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility Location ID	SEAD-71 SS71-14	SEAD-71 SS71-2	SEAD-71 SS71-3	SEAD-71 SS71-4	SEAD-71 SS71-8	SEAD-71 SS71-9	SEAD-71 TP71-1	SEAD-71 TP71-1	SEAD-71 TP71-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	71025	71014	71015	71016	71019	71018	TP71-1-1	TP71-1-2	TP71-1-3
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	3	3	3
	Sample Depth to Bottom of Sample ⁽¹⁾	0.2	0.2	0.2	0.2	0.2	0.2	3	3	3
	Sample Date	11/20/1997	11/19/1997	11/19/1997	11/19/1997	11/19/1997	11/19/1997	6/7/1994	6/7/1994	6/7/1994
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	ESI	ESI	ESI
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl Acetate	UG/KG									
Methyl Tertiary Ether	UG/KG									
Methyl bromide	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Methyl butyl ketone	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Methyl chloride	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Methyl cyclohexane	UG/KG									
Methyl ethyl ketone	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Methyl isobutyl ketone	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Methylene chloride	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	2 J	2 J	2 J
Ortho Xylene	UG/KG									
Styrene	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Tetrachloroethene	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	1 J	1 J	3 J
Toluene	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Total BTEX	MG/KG									
Total Xylenes	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Trans-1,2-Dichloroethene	UG/KG									
Trans-1,3-Dichloropropene	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Trichloroethene	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Trichlorofluoromethane	UG/KG									
Vinyl chloride	UG/KG	12 U	15 U	12 U	12 U	12 U	12 U	12 U	12 U	11 U
Semivolatile Organics										
1,1'-Biphenyl	UG/KG									
1,2,4-Trichlorobenzene	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
1,2-Dichlorobenzene	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
1,3-Dichlorobenzene	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
1,4-Dichlorobenzene	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
2,2'-oxybis(1-Chloropropane)	UG/KG									
2,4,5-Trichlorophenol	UG/KG	220 U	2100 U	410 U	190 U	1000 U	220 U	45000 U	1200 U	900 U
2,4,6-Trichlorophenol	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
2,4-Dichlorophenol	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
2,4-Dimethylphenol	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
2,4-Dinitrophenol	UG/KG	220 U	2100 U	410 U	190 U	1000 U	220 U	45000 U	1200 U	900 U
2,4-Dinitrotoluene	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
2,6-Dinitrotoluene	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
2-Chloronaphthalene	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
2-Chlorophenol	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
2-Methylnaphthalene	UG/KG	23 J	880 U	15 J	9.4 J	430 U	29 J	19000 U	29 J	370 U
2-Methylphenol	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
2-Nitroaniline	UG/KG	220 U	2100 U	410 U	190 U	1000 U	220 U	45000 U	1200 U	900 U
2-Nitrophenol	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
3,3'-Dichlorobenzidine	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
3-Nitroaniline	UG/KG	220 U	2100 U	410 U	190 U	1000 U	220 U	45000 U	1200 U	900 U
4,6-Dinitro-2-methylphenol	UG/KG	220 U	2100 U	410 U	190 U	1000 U	220 U	45000 U	1200 U	900 U
4-Bromophenyl phenyl ether	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
4-Chloro-3-methylphenol	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility Location ID	SEAD-71 SS71-14	SEAD-71 SS71-2	SEAD-71 SS71-3	SEAD-71 SS71-4	SEAD-71 SS71-8	SEAD-71 SS71-9	SEAD-71 TP71-1	SEAD-71 TP71-1	SEAD-71 TP71-1	SEAD-71 TP71-1
Maxtrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	71025	71014	71015	71016	71019	71018	TP71-1-1	TP71-1-1	TP71-1-2	TP71-1-3
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	3	3	3	3
Sample Depth to Bottom of Sample ⁽¹⁾	0.2	0.2	0.2	0.2	0.2	0.2	3	3	3	3
Sample Date	11/20/1997	11/19/1997	11/19/1997	11/19/1997	11/19/1997	11/19/1997	11/19/1997	6/7/1994	6/7/1994	6/7/1994
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	ESI	ESI	ESI	ESI
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
4-Chloroaniline	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
4-Chlorophenyl phenyl ether	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
4-Methylphenol	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
4-Nitroaniline	UG/KG	220 U	2100 U	410 U	190 U	1000 U	220 U	45000 U	1200 U	900 U
4-Nitrophenol	UG/KG	220 U	2100 U	410 U	190 U	1000 U	220 U	45000 U	1200 U	900 U
Acenaphthene	UG/KG	10 J	69 J	52 J	5.5 J	96 J	38 J	5800 J	280 J	75 J
Acenaphthylene	UG/KG	20 J	880 U	170 U	80 U	73 J	22 J	19000 U	500 U	370 U
Acetophenone	UG/KG									
Aniline	UG/KG									
Anthracene	UG/KG	380	170 J	120 J	12 J	240 J	70 J	11000 J	560	120 J
Atrazine	UG/KG									
Benzaldehyde	UG/KG									
Benzo(a)anthracene	UG/KG	360	1100	570	70 J	880	310	37000	1200	660
Benzo(a)pyrene	UG/KG	350	1300	540	83	1100	360	22000	750	630
Benzo(h)fluoranthene	UG/KG	830	1200	950	130	1400	810	26000	930	710
Benzo(ghi)perylene	UG/KG	220	820 J	310	69 J	940	220	10000 J	500	500
Benzo(k)fluoranthene	UG/KG	89 U	1600	170 U	80 U	1400	89 U	15000 J	570	490
Benzoic Acid	UG/KG									
Bis(2-Chloroethoxy)methane	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
Bis(2-Chloroethyl)ether	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
Bis(2-Chloroisopropyl)ether	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
Bis(2-Ethylhexyl)phthalate	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
Butylbenzylphthalate	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
Caprolactam	UG/KG									
Carbazole	UG/KG	150	350 J	160 J	15 J	510	160	9500 J	360 J	100 J
Chrysene	UG/KG	560	1600	660	80	1600	500	36000	1000	750
Di-n-butylphthalate	UG/KG	89 U	880 U	170 U	80 U	430 U	6.4 J	19000 U	500 U	370 U
Di-n-octylphthalate	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
Dibenz(a,h)anthracene	UG/KG	83 J	300 J	120 J	29 J	340 J	93	9800 J	190 J	320 J
Dibenzofuran	UG/KG	31 J	64 J	22 J	80 U	75 J	21 J	19000 U	120 J	170 U
Diethyl phthalate	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
Dimethylphthalate	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
Fluoranthene	UG/KG	480	3000	1200	140	2400	710	88000	2600	1400
Fluorene	UG/KG	47 J	67 J	36 J	4.7 J	100 J	31 J	2800 J	230 J	56 J
Hexachlorobenzene	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
Hexachlorobutadiene	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
Hexachlorocyclopentadiene	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
Hexachloroethane	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
Indeno(1,2,3-cd)pyrene	UG/KG	190	780 J	310	57 J	780	200	12000 J	390 J	520
Isothionone	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
N-Nitrosodiphenylamine	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
N-Nitrosodipropylamine	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
Naphthalene	UG/KG	31 J	880 U	11 J	10 J	430 U	15 J	19000 U	77 J	170 U
Nitrobenzene	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U

**Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
Location ID	SS71-14	SS71-2	SS71-3	SS71-4	SS71-8	SS71-9	TP71-1	TP71-1	TP71-1	TP71-1
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	71025	71014	71015	71016	71019	71018	TP71-1-1	TP71-1-2	TP71-1-3	TP71-1-3
Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	3	3	3	3
Sample Depth to Bottom of Sample ⁽¹⁾	0.2	0.2	0.2	0.2	0.2	0.2	3	3	3	3
Sample Date	11/20/1997	11/19/1997	11/19/1997	11/19/1997	11/19/1997	11/19/1997	6/7/1994	6/7/1994	6/7/1994	6/7/1994
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	ESI	ESI	ESI	ESI
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pentachlorophenol	UG/KG	220 U	2100 U	410 U	190 U	1000 U	220 U	45000 U	1200 U	900 U
Phenanthrene	UG/KG	210	1400	530	50 J	880	390	66000	1900	770
Phenol	UG/KG	89 U	880 U	170 U	80 U	430 U	89 U	19000 U	500 U	370 U
Pyrene	UG/KG	520	2300	950	110	1900	590	63000	1600	2000
Pyridine	UG/KG									
Pesticides/PCBs										
4,4'-DDD	UG/KG	4.4 U	2.8 J	4.2 U	3.2 J	4.3 U	4.4 U	37 U	3.7 U	3.7 U
4,4'-DDE	UG/KG	18	44	21	19	19	15	37 U	3.7 U	3.1 J
4,4'-DDT	UG/KG	21	53	19	16	77	25	37 U	3.7 U	8.4
Aldrin	UG/KG	2.3 U	2.3 U	2.2 U	2 U	2.2 U	2.3 U	19 U	1.9 U	1.9 U
Alpha-BHC	UG/KG	2.3 U	1.9 J	2.2 U	2 U	2.2 U	2.3 U	19 U	1.9 U	1.9 U
Alpha-Chlordane	UG/KG	2.3 U	2.3 U	2.2 U	2 U	2.2 U	2.3 U	74 J	1.9 U	1.9 U
Beta-BHC	UG/KG	2.3 U	2.3 U	2.2 U	2 U	2.2 U	2.3 U	19 U	1.9 U	1.9 U
Delta-BHC	UG/KG	2.3 U	2.3 U	2.2 U	2 U	2.2 U	2.3 U	19 U	1.9 U	1.9 U
Dieldrin	UG/KG	3.4 J	3 J	4.2 U	4 U	4.3 U	4.4 U	37 U	3.5 J	3.7 U
Endosulfan I	UG/KG	2.3 U	2.3 U	2.2 U	2 U	2.2 U	2.3 U	200 J	3.5	6.6 J
Endosulfan II	UG/KG	4.4 U	4.4 U	4.2 U	4 U	4.3 U	4.4 U	26 J	2.5 J	3.7 U
Endosulfan sulfate	UG/KG	4.4 U	4.4	4 J	4 U	4.6	4.4 U	37 U	3.7 U	3.7 U
Endrin	UG/KG	8.1	2.4 J	4.2 U	4 U	4.3 U	4.4 U	29 J	3.7 U	3.7 U
Endrin aldehyde	UG/KG	5.2	4.7	8.3	4	6.1	4.4 U	37 U	3.7 U	3.7 U
Endrin ketone	UG/KG	14	6.6	6.4	4 U	11	4.4 U	37 U	3.7 U	3.7 U
Gamma-BHC/Lindane	UG/KG	2.3 U	2.3 U	2.2 U	2 U	2.2 U	2.3 U	19 U	1.9 U	1.9 U
Gamma-Chlordane	UG/KG	2.3 U	2.3 U	2.2 U	2 U	2.2 U	2.3 U	19 U	1.9 U	1.9 U
Heptachlor	UG/KG	2.3 U	2.3 U	2.2 U	2 U	2.2 U	2.3 U	19 U	1.2 J	1.9 U
Heptachlor epoxide	UG/KG	2.3 U	6.4	2.2 U	1.5 J	2.2 U	2.3 U	19 U	1.9 U	1.9 U
Methoxychlor	UG/KG	39	23 U	22 U	20 U	62	23 U	190 U	19 U	19 U
Toxaphene	UG/KG	230 U	230 U	220 U	200 U	220 U	230 U	1900 U	190 U	190 U
Amclor-1016	UG/KG	44 U	44 U	42 U	40 U	43 U	44 U	370 U	37 U	37 U
Amclor-1221	UG/KG	90 U	89 U	86 U	81 U	87 U	90 U	750 U	76 U	75 U
Amclor-1232	UG/KG	44 U	44 U	42 U	40 U	43 U	44 U	370 U	37 U	37 U
Amclor-1242	UG/KG	44 U	44 U	42 U	40 U	43 U	44 U	370 U	37 U	37 U
Amclor-1248	UG/KG	44 U	44 U	42 U	40 U	43 U	44 U	370 U	37 U	37 U
Amclor-1254	UG/KG	44 U	44 U	42 U	40 U	43 U	44 U	370 U	37 U	37 U
Amclor-1260	UG/KG	44 U	44 U	42 U	40 U	43 U	44 U	370 U	37 U	37 U
Metals										
Aluminum	MG/KG	10500	14000	12500	13400	13600	15900	12900	13100	10900
Antimony	MG/KG	0.85 UJ	1 J	0.85 UJ	0.82 UJ	0.84 UJ	0.93 UJ	0.19 J	0.27 UJ	0.23 UJ
Arsenic	MG/KG	4.1	6.1	4.6	4.7	5.9	14.6	5.4	5.1	5.2
Barium	MG/KG	58.8 J	76.5 J	75.4 J	76.9 J	101 J	86.2 J	86.2	69.2	69.8

**Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	SS71-14	SS71-2	SS71-3	SS71-4	SS71-8	SS71-9	TP71-1	TP71-1	TP71-1
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	71025	71014	71015	71016	71019	71018	TP71-1-1	TP71-1-2	TP71-1-3
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0	0	0	0	3	3	3
	Sample Depth to Bottom of Sample ⁽¹⁾	0.2	0.2	0.2	0.2	0.2	0.2	3	3	3
	Sample Date	11/20/1997	11/19/1997	11/19/1997	11/19/1997	11/19/1997	11/19/1997	6/7/1994	6/7/1994	6/7/1994
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	RI PHASE I STEP 1	RI PHASE I STEP 1	RI PHASE I STEP 1	RI PHASE I STEP 1	RI PHASE I STEP 1	RI PHASE I STEP 1	ESI	ESI	ESI
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Beryllium	MG/KG	0.31	0.46	0.41	0.44	0.38	0.43	0.58 J	0.56 J	0.51 J
Cadmium	MG/KG	0.07 UJ	0.08 UJ	0.07 UJ	0.07 UJ	0.08 UJ	0.08 UJ	0.53 J	0.39 J	0.45 J
Calcium	MG/KG	295000	8370	27100	43200	27300	9080	18000 J	52800 J	32200 J
Chromium	MG/KG	16.5 J	21 J	18 J	19.5 J	22.2 J	23.8 J	18.4	17.9	16.3
Cobalt	MG/KG	10	11.1	9.4	11.2	11.5	12.5	9.4	9.3 J	9.7
Copper	MG/KG	19.5 J	55 J	40.5 J	24.9 J	23.6 J	45.3 J	25.4	19	23
Cyanide	MG/KG	0.71 U	0.68 U	0.73 U	0.61 U	0.71 U	0.67 U	0.54 U	0.46 U	0.5 U
Iron	MG/KG	19600	25900	22800	24900	27200	38000	23600	22700	21600
Lead	MG/KG	33.3 J	171 J	90.8 J	30.1 J	74.3 J	33 J	96.9	10.1	43.8
Magnesium	MG/KG	59300	5570	8250	10200	6820	5570	8600	7910	8840
Manganese	MG/KG	640 J	602 J	482 J	510 J	743 J	735 J	497	390	474
Mercury	MG/KG	0.07 J	0.09 J	0.06 UJ	0.05 UJ	0.06 UJ	0.07 UJ	0.03 J	0.03 J	0.03 J
Nickel	MG/KG	20.8	28.3	25.1	30.6	26.9	30.9	26.8	25.2	24.9
Potassium	MG/KG	1540	2070	1960	1810	1750	2180	1340 J	1540 J	1230 J
Selenium	MG/KG	1.3 J	1.4 J	1.1 UJ	1.1 UJ	1.1 UJ	1.4 J	0.43 J	0.57 U	0.47 U
Silver	MG/KG	0.51 UJ	0.54 UJ	0.51 UJ	0.49 UJ	0.51 UJ	0.67 UJ	0.07 UJ	0.11 UJ	0.09 UJ
Sodium	MG/KG	233	176	226	251	215	237	54.9 J	108 J	140 J
Thallium	MG/KG	1.5 U	1.6 U	1.5 U	1.5 U	1.5 U	2.3	0.25 U	0.4 U	0.33 U
Vanadium	MG/KG	17.8	23.9	20	19.6	19.8	23.4	19.7	20.1	17.9
Zinc	MG/KG	389 J	144 J	105 J	352 UJ	118 J	95.5 J	96.2	63.9	86.1

Notes

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
- (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

- U = compound was not detected
- J = the reported value is an estimated concentration
- UJ = the compound was not detected; the associated reporting limit is approximate
- R = the data was rejected in the data validating process
- NJ = compound was "tentatively identified" and the associated numerical value is approximate

**Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility Location ID	SEAD-71 TP71-1	SEAD-71 TP71-3-1	SEAD-71 TP71-3-2	SEAD-71 TP71-4-2	SEAD-71 TP71-5-1	SEAD-71 TP71-6-1	SEAD-71 WS-71-A-009-9	SEAD-71 WS-71-B-009-6	SEAD-71 WS-71-B-009-8	SEAD-71 WS-71-D-009
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	TP71-1-4	71002	71003	71006	71007	71010	WS-71-A-009-9	WS-71-B-009-6	WS-71-B-009-8	WS-71-D-009
	Sample Depth to Top of Sample (ft)	4	0	10.5	10	7	12.5	0	0	0	0
	Sample Depth to Bottom of Sample (ft)	4	8	11	10.5	7.5	13	0	0	0	0
	Sample Date	6/7/1994	10/14/1997	10/14/1997	10/14/1997	10/14/1997	10/15/1997	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ESI	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	ENSR IRM 1	ENSR IRM 1	ENSR IRM 1	ENSR IRM 1
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value
Volatile Organics											
1,1,1-Trichloroethane	UG/KG	23	11 U	110 U	12 U	12 U	4 J	6 U	5 U	5 U	5.8
1,1,2,2-Tetrachloroethane	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 UJ	5 UJ	5 R	5.8
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG							6 U	5 U	5 U	5.8
1,1,2-Trichloroethane	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U	
1,1-Dichloroethane	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U	5.8
1,1-Dichloroethene	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U	5.8
1,2,3-Trichloropropane	UG/KG										5.8
1,2,4-Trichlorobenzene	UG/KG							6 UJ	5 UJ	5 R	5.8
1,2-Dibromo-3-chloropropane	UG/KG							6 UJ	5 UJ	5 R	
1,2-Dibromoethane	UG/KG							6 UJ	5 UJ	5 UJ	
1,2-Dichlorobenzene	UG/KG							6 UJ	5 UJ	5 R	5.8
1,2-Dichloroethane	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U	5.8
1,2-Dichloroethene (total)	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U				
1,2-Dichloropropane	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U	
1,3-Dichlorobenzene	UG/KG							6 UJ	5 UJ	5 R	5.8
1,3-Dichloropropane	UG/KG										5.8
1,4-Dichlorobenzene	UG/KG							6 UJ	5 UJ	5 R	5.8
Acetone	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U	23
Benzene	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	1 J	5 U	5 U	5.8
Bromodichloromethane	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U	
Bromoform	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 UJ	5 UJ	5 UJ	
Carbon disulfide	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	2 J	5 U	2 J	5.8
Carbon tetrachloride	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 UJ	5 U	5.8
Chlorobenzene	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 UJ	5 UJ	5 UJ	5.8
Chlorodibromomethane	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 UJ	5 UJ	5 UJ	5.8
Chloroethane	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U	12
Chloroform	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U	5.8
Cis-1,2-Dichloroethene	UG/KG							6 U	5 U	5 U	
Cis-1,3-Dichloropropene	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U	
Cyclohexane	UG/KG							4 J	5 U	3 J	
Dichlorodifluoromethane	UG/KG							6 U	5 U	5 U	
Ethyl benzene	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 UJ	5 UJ	5 UJ	5.8
Isopropylbenzene	UG/KG							6 UJ	5 UJ	5 UJ	
Meta/Para Xylene	UG/KG										5.8

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Facility Location ID	SEAD-71 TP71-1	SEAD-71 TP71-3-1	SEAD-71 TP71-3-2	SEAD-71 TP71-4-2	SEAD-71 TP71-5-1	SEAD-71 TP71-6-1	SEAD-71 WS-71-A-009-9	SEAD-71 WS-71-B-009-6	SEAD-71 WS-71-B-009-8	SEAD-71 WS-71-D-009
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID	TP71-1-4	71002	71003	71006	71007	71010	WS-71-A-009-9	WS-71-B-009-6	WS-71-B-009-8	WS-71-D-009
Sample Depth to Top of Sample ⁽¹⁾	4	0	10.5	10	7	12.5	0	0	0	0
Sample Depth to Bottom of Sample ⁽¹⁾	4	8	11	10.5	7.5	13	0	0	0	0
Sample Date	6/7/1994	10/14/1997	10/14/1997	10/14/1997	10/14/1997	10/15/1997	5/6/2004	5/6/2004	5/6/2004	5/6/2004
QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Study ID	ESI	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	ENSR IRM	ENSR IRM	ENSR IRM	ENSR IRM
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl Acetate	UG/KG						6 U	5 U	5 U	
Methyl Tertbutyl Ether	UG/KG						6 U	5 U	5 U	
Methyl bromide	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U
Methyl butyl ketone	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U
Methyl chloride	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U
Methyl cyclohexane	UG/KG						6	5 U	4 J	
Methyl ethyl ketone	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U
Methyl isobutyl ketone	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U
Methylene chloride	UG/KG	2 J	11 U	110 U	12 U	12 U	12 U	6 U	2 J	5 U
Ortho Xylene	UG/KG									5.8
Styrene	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U
Tetrachloroethene	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U
Toluene	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	2 J	5 U	2 J
Total BTEX	MG/KG		11.6		3.5	3.05	3.3			
Total Xylenes	UG/KG	12 U	3 J	96 J	12 U	12 U	12 U	2 J	5 U	3 J
Trans-1,2-Dichloroethene	UG/KG						6 U	5 U	5 U	5.8
Trans-1,3-Dichloropropene	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U
Trichloroethene	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U
Trichlorofluoromethane	UG/KG						6 U	1 J	5 U	
Vinyl chloride	UG/KG	12 U	11 U	110 U	12 U	12 U	12 U	6 U	5 U	5 U
Semivolatile Organics										
1,1'-Biphenyl	UG/KG						370 U	360 U	370 U	
1,2,4-Trichlorobenzene	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U			
1,2-Dichlorobenzene	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U			
1,3-Dichlorobenzene	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U			
1,4-Dichlorobenzene	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U			
2,2'-oxybis(1-Chloropropane)	UG/KG	390 U								
2,4,5-Trichlorophenol	UG/KG	940 U	160 U	1800 U	190 U	190 U	190 U	940 U	910 U	920 U
2,4,6-Trichlorophenol	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U
2,4-Dichlorophenol	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U
2,4-Dimethylphenol	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U
2,4-Dinitrophenol	UG/KG	940 U	160 U	1800 U	190 U	190 U	190 U	940 U	910 U	920 U
2,4-Dinitrotoluene	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U
2,6-Dinitrotoluene	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U
2-Chloronaphthalene	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U
2-Chlorophenol	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U
2-Methylnaphthalene	UG/KG	390 U	520	31000 J	78 U	78 U	78 U	370 U	360 U	370 U
2-Methylphenol	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U
2-Nitroaniline	UG/KG	940 U	160 U	1800 U	190 U	190 U	190 U	940 U	910 U	920 U
2-Nitrophenol	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U
3,3'-Dichlorobenzidine	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U
3-Nitroaniline	UG/KG	940 U	160 U	1800 U	190 U	190 U	190 U	940 U	910 U	920 U
4,6-Dinitro-2-methylphenol	UG/KG	940 U	160 U	1800 U	190 U	190 U	190 U	940 U	910 U	920 U
4-Bromophenyl phenyl ether	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U
4-Chloro-3-methylphenol	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility Location ID	SEAD-71 TP71-1	SEAD-71 TP71-1-1	SEAD-71 TP71-1-2	SEAD-71 TP71-1-4-2	SEAD-71 TP71-1-5-1	SEAD-71 TP71-1-6-1	SEAD-71 WS-71-A-009-9	SEAD-71 WS-71-B-009-6	SEAD-71 WS-71-B-009-8	SEAD-71 WS-71-D-009
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	TP71-1-4	71002	71003	71006	71007	71010	WS-71-A-009-9	WS-71-B-009-6	WS-71-B-009-8	WS-71-D-009
	Sample Depth to Top of Sample ⁽¹⁾	4	0	10.5	10	7	12.5	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	4	8	11	10.5	7.5	13	0	0	0	0
	Sample Date	6/7/1994	10/14/1997	10/14/1997	10/14/1997	10/14/1997	10/15/1997	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ESI	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	ENSR IRM I	ENSR IRM I	ENSR IRM I	ENSR IRM I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
4-Chloroaniline	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100
4-Chlorophenyl phenyl ether	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U	
4-Methylphenol	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100
4-Nitroaniline	UG/KG	940 U	160 U	1800 U	190 UJ	190 UJ	190 UJ	940 U	75 J	920 U	
4-Nitrophenol	UG/KG	940 U	160 U	1800 U	190 U	190 U	190 U	940 U	910 U	920 U	5900
Acenaphthene	UG/KG	38 J	830 J	13000 J	78 U	78 U	78 U	370 U	360 U	62 J	1100
Acenaphthylene	UG/KG	390 U	66 U	340 J	78 U	78 U	78 U	370 U	360 U	97 J	130 J
Acetophenone	UG/KG							370 U	360 U	370 U	
Aniline	UG/KG										1100
Anthracene	UG/KG	59 J	48 J	590 J	78 U	78 U	78 U	45 J	170 J	520	360
Atrazine	UG/KG							370 U	360 U	370 U	
Benzaldehyde	UG/KG							370 U	360 U	370 U	
Benz(a)anthracene	UG/KG	180 J	32 J	240 J	78 U	18 J	3.9 J	180 J	730	1500	830
Benz(a)pyrene	UG/KG	160 J	66 U	160 J	78 U	19 J	3.9 J	170 J	810	1400	610
Benz(b)fluoranthene	UG/KG	130 J	66 U	130 J	78 U	21 J	4.4 J	230 J	1100	1900	650
Benz(ghi)perylene	UG/KG	82 J	66 U	76 J	78 U	12 J	78 U	99 J	490	770	430
Benz(k)fluoranthene	UG/KG	140 J	66 U	98 J	78 U	24 J	4.6 J	94 J	440	670	650
Benzoic Acid	UG/KG										5900
Bis(2-Chloroethoxy)methane	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U	
Bis(2-Chloromethyl)ether	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U	
Bis(2-Chloroisopropyl)ether	UG/KG										
Bis(2-Ethylhexyl)phthalate	UG/KG	390 U	66 U	760 U	78 J	15 J	7.6 J	43 J	47 J	56 J	140
Butylbenzylphthalate	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100
Caprolactam	UG/KG							370 U	360 U	370 U	
Carbazole	UG/KG	30 J	40 J	380 J	78 U	4.2 J	78 U	370 U	59 J	240 J	
Chrysene	UG/KG	220 J	49 J	290 J	78 U	28 J	4.6 J	190 J	820	1500	1000
Di-n-butylphthalate	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100
Di-n-octylphthalate	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100
Dibenz(a,h)anthracene	UG/KG	38 J	66 U	760 U	78 U	4.4 J	78 U	370 U	42 J	230 J	170
Dibenzofuran	UG/KG	390 U	670 J	11000 J	78 U	78 U	78 U	370 U	360 U	38 J	1100
Diethyl phthalate	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100
Dimethylphthalate	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100
Fluoranthene	UG/KG	330 J	220	1900	78 U	52 J	6.9 J	350 J	1300	2700	1800
Fluorene	UG/KG	390 U	270	4100	78 U	78 U	78 U	370 U	360 U	99 J	1100
Hexachlorobenzene	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100
Hexachlorobutadiene	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100
Hexachlorocyclopentadiene	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100
Hexachloroethane	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100
Indeno(1,2,3-cd)pyrene	UG/KG	88 J	66 U	56 J	78 U	12 J	78 U	110 J	530	860	420
Isophorone	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100
N-Nitrosodiphenylamine	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U	
N-Nitrosodipropylamine	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 U	370 U	
Naphthalene	UG/KG	29 J	590 J	17000 J	78 U	78 U	78 U	370 U	360 U	370 U	1100
Nitrobenzene	UG/KG	390 U	66 U	760 U	78 U	78 U	78 U	370 U	360 UJ	370 UJ	1100

**Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility Location ID	SEAD-71 TP71-1	SEAD-71 TP71-3-1	SEAD-71 TP71-3-2	SEAD-71 TP71-4-2	SEAD-71 TP71-5-1	SEAD-71 TP71-6-1	SEAD-71 WS-71-A-009-9	SEAD-71 WS-71-B-009-6	SEAD-71 WS-71-B-009-8	SEAD-71 WS-71-D-009
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	TP71-1-4	71002	71003	71006	71007	71010	WS-71-A-009-9	WS-71-B-009-6	WS-71-B-009-8	WS-71-D-009
	Sample Depth to Top of Sample ¹⁹³	4	0	10.5	10	7	12.5	0	0	0	0
	Sample Depth to Bottom of Sample ¹⁹³	4	8	11	10.5	7.5	13	0	0	0	0
	Sample Date	6/7/1994	10/14/1997	10/14/1997	10/14/1997	10/14/1997	10/15/1997	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ESI	RJ PHASE I STEP 1	RI PHASE I STEP 1	RI PHASE I STEP 1	RI PHASE I STEP 1	RI PHASE I STEP 1	ENSR IRM I	ENSR IRM I	ENSR IRM I	ENSR IRM I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pentachlorophenol	UG/KG	940 U	160 U	1800 U	190 U	190 U	190 U	940 U	910 U	920 U	5900
Phenanthrene	UG/KG	260 J	350	3800	78 U	24 J	78 U	150 J	400	1600	500
Phenol	UG/KG	390 U	4.5 J	760 U	78 U	78 U	78 U	370 U	360 U	370 U	1100
Pyrene	UG/KG	390	370	1700	78 U	44 J	6 J	300 J	1300	2700	1300
Pyridine	UG/KG										5900
Pesticides/PCBs											
4,4'-DDD	UG/KG	3.9 U	3.9 U	3.8 U	3.9 U	3.9 U	3.9 U	3.7 U	8 J	18.1 U	35
4,4'-DDE	UG/KG	4.2 J	3.9 U	3.8 U	3.9 U	3.9 U	3.9 U	14	36 J	100 J	55
4,4'-DDT	UG/KG	13	3.9 U	5.1 J	3.9 U	3.9 U	3.9 U	7.1	40	55	38
Aldrin	UG/KG	2 U	2 U	2 U	2 U	2 U	2 U	1.9 U	1.9 U	9.4 U	20
Alpha-BHC	UG/KG	2 U	2 U	2 U	2.9	4.9	18	1.9 U	1.9 U	9.4 U	20
Alpha-Chlordane	UG/KG	2 U	2 U	2 U	2 U	2 U	2 U	1.9 U	1.9 U	9.4 U	20
Beta-BHC	UG/KG	2 U	2 U	2 U	2 U	2.1	2.7	1.9 U	1.9 U	9.4 U	20
Delta-BHC	UG/KG	2 U	2 U	2 U	2 U	2 U	1.8 J	1.9 U	1.9 U	9.4 U	20
Dieldrin	UG/KG	3.9 U	3.9 U	3.8 U	3.9 U	3.9 U	3.9 U	3.7 U	3.7 U	18.1 U	38
Endosulfan I	UG/KG	2.8 J	2 U	2 U	2 U	2 U	2 U	1.9 U	1.9 U	9.4 U	20
Endosulfan II	UG/KG	3.9 U	3.9 U	3.8 U	3.9 U	3.9 U	3.9 U	3.7 U	3.7 U	18.1 U	38
Endosulfan sulfate	UG/KG	3.9 U	3.9 U	3.8 U	3.9 U	3.9 U	3.9 U	3.7 U	3.7 U	18.1 U	38
Endrin	UG/KG	3.9 U	3.9 U	3.7 J	3.9 U	3.9 U	3.9 U	3.7 U	3.7 U	18.1 U	38
Endrin aldehyde	UG/KG	3.9 U	3.9 U	7.2 J	3.9 U	3.1	3.9 U	3.7 U	3.7 U	18.1 U	38
Endrin ketone	UG/KG	3.9 U	3.9 U	2.2 J	3.9 U	3.9 U	3.9 U	3.7 U	3.7 U	18.1 U	38
Gamma-BHC/Lindane	UG/KG	2 U	2 U	2 U	2 U	2 U	4	1.9 U	1.9 U	9.4 U	20
Gamma-Chlordane	UG/KG	2 U	2 U	1.1 J	2 U	2 U	2 U	1.9 U	1.9 U	9.4 U	20
Heptachlor	UG/KG	2 U	2 U	2 U	2 U	2 U	2 U	1.9 U	1.9 U	9.4 U	20
Heptachlor epoxide	UG/KG	2 U	2 U	1.5 J	2 U	2 U	2 U	1.9 U	1.9 U	9.4 U	20
Methoxychlor	UG/KG	20 U	20 U	19 J	20 U	20 U	20 U	19 U	19 U	94 U	200
Toxaphene	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U	190 U	190 U	940 U	380
Aroclor-1016	UG/KG	39 U	39 U	38 U	39 U	39 U	39 U	37 U	37 U	37 U	38
Aroclor-1221	UG/KG	79 U	80 U	77 U	79 U	80 U	79 U	37 U	37 U	37 U	38
Aroclor-1232	UG/KG	39 U	39 U	38 U	39 U	39 U	39 U	37 U	37 U	37 U	38
Aroclor-1242	UG/KG	39 U	39 U	38 U	39 U	39 U	39 U	37 U	37 U	37 U	38
Aroclor-1248	UG/KG	39 U	39 U	38 U	39 U	39 U	39 U	37 U	37 U	37 U	38
Aroclor-1254	UG/KG	39 U	39 U	38 U	39 U	39 U	39 U	37 U	37 U	37 U	38
Aroclor-1260	UG/KG	39 U	39 U	38 U	39 U	39 U	39 U	37 U	37 U	37 U	38
Metals											
Aluminum	MG/KG	9960	8090 J	8090 J	14500 J	12400	9400	12600	11000	9750	9450
Antimony	MG/KG	0.47 J	0.56 UJ	0.56 UJ	0.68 UJ	0.65 UJ	0.64 UJ	2 J	9.2 J	5.9 J	11
Arsenic	MG/KG	4.8	4.3	4.3	3.1	5.3	4.1	7.4	6.9	5.3	5.4
Barium	MG/KG	63.5	51.3	51.3	94.1	78.1	48.8	92.4	95.1	83.6	89.2

**Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility Location ID	SEAD-71 TP71-1	SEAD-71 TP71-J-1	SEAD-71 TP71-J-2	SEAD-71 TP71-4-2	SEAD-71 TP71-5-1	SEAD-71 TP71-6-1	SEAD-71 WS-71-A-009-9	SEAD-71 WS-71-B-009-6	SEAD-71 WS-71-B-009-8	SEAD-71 WS-71-D-009
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample ID	TP71-1-4	71002	71003	71006	71007	71010	WS-71-A-009-9	WS-71-B-009-6	WS-71-B-009-8	WS-71-D-009
	Sample Depth to Top of Sample ⁽¹⁾	4	0	10.5	10	7	12.5	0	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	4	8	11	10.5	7.5	13	0	0	0	0
	Sample Date	6/7/1994	10/14/1997	10/14/1997	10/14/1997	10/14/1997	10/15/1997	5/6/2004	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
	Study ID	ESI	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	RI PHASE I STEP I	ENSR IRM I	ENSR IRM I	ENSR IRM I	ENSR IRM I
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Beryllium	MG/KG	0.47 J	0.21	0.21	0.56	0.31	0.31	0.7	0.57	0.49	0.17
Cadmium	MG/KG	0.45 J	0.08 U	0.08 U	0.09 U	0.09 U	0.09 U	0.49	0.46	0.44	0.28
Calcium	MG/KG	36500 J	134000	134000	36000	42800	46600	41100	44600	51800	45300
Chromium	MG/KG	15.5	12.9	12.9	21.2	17.6	14.5	19.4 J	22.8	17.5	17.5
Cobalt	MG/KG	8.7 J	11	11	9	9.4	8.6	12.5 J	9.7 J	8.9 J	8.5
Copper	MG/KG	26.7	15.2	15.2	19.1	19.4	18.8	30.3	59.9	98.2	77.7
Cyanide	MG/KG	0.35 U	0.65 U	0.65 U	0.64 U	0.6 UJ	0.59 UJ				
Iron	MG/KG	20000	18000	18000	21600	21500	19200	28000 J	23000 J	19200 J	18800
Lead	MG/KG	67.8	8.9 J	8.9 J	9.8 J	16	7.3	29.9 J	565 J	797 J	1010
Magnesium	MG/KG	9180	6760 J	6760 J	8120 J	10100	10100	7180 J	7330 J	15100 J	10100
Manganese	MG/KG	458	784 J	784 J	345 J	623	345	446 J	582 J	454 J	435
Mercury	MG/KG	0.03 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05	0.68	0.31	0.08
Nickel	MG/KG	24.6	26.2	26.2	28	24.1	23.3	37.1 J	26.9 J	26.9 J	25.4
Potassium	MG/KG	1520 J	1120	1120	2940	1950	1340	1410	1110	1230	1170
Selenium	MG/KG	0.56 U	0.77 U	0.77 U	0.93 U	1.2	0.88 U	0.42 U	0.44 U	0.44 U	0.58
Silver	MG/KG	0.1 UJ	0.21 U	0.21 U	0.26 U	0.25 U	0.24 U	0.88	0.79	0.44 J	0.56
Sodium	MG/KG	90.7 J	83.3 U	83.3 U	109	108 U	138	135	103	120	76.1
Thallium	MG/KG	0.4 U	1.2 U	1.2 U	1.4 U	0.92 UJ	0.91 UJ	0.21 U	0.22 U	0.22 U	0.7
Vanadium	MG/KG	18.2	15.1	15.1	24.9	20.2	14.8	20	18.9	17.8	19.9
Zinc	MG/KG	79.7	57 J	57 J	61.5 J	82.1	73.4	75.5 J	122 J	104 J	114

Note(s):

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
 - (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.
- U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected; the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	
Location ID-13	WS-71-D-009-2	WS-71-E1-009-3	WS-71-E3-009-10		
Matrix	SOIL	SOIL	SOIL		
Sample ID-13	WS-71-D-009-2	WS-71-E1-009-3	WS-71-E3-009-10		
Sample Depth to Top of Sample ⁽¹⁾	0	0	0		
Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0		
Sample Date	5/6/2004	5/6/2004	5/6/2004		
QC Code	SA	SA	SA		
Study ID	ENSR IRM	ENSR IRM	ENSR IRM		
Parameter	Units	(Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics					
1,1,1-Trichloroethane	UG/KG	U	5.5 U	5.5 U	5.8 U
1,1,2,2-Tetrachloroethane	UG/KG	U	5.5 U	5.5 U	5.8 U
1,1,2-Trichloro-1,2,2-Trifluoromethane	UG/KG	U	5.5 U	5.5 U	5.8 U
1,1,2-Trichloroethane	UG/KG				
1,1-Dichloroethane	UG/KG	U	5.5 U	5.5 U	5.8 U
1,1-Dichloroethene	UG/KG	U	5.5 U	5.5 U	5.8 U
1,2,3-Trichloropropane	UG/KG	U	5.5 U	5.5 U	5.8 U
1,2,4-Trichlorobenzene	UG/KG	U	5.5 U	5.5 U	5.8 U
1,2-Dibromo-3-chloropropane	UG/KG				
1,2-Dibromomethane	UG/KG				
1,2-Dichlorobenzene	UG/KG	U	5.5 U	5.5 U	5.8 U
1,2-Dichloroethane	UG/KG	U	5.5 U	5.5 U	5.8 U
1,2-Dichloroethene (total)	UG/KG				
1,2-Dichloropropane	UG/KG				
1,3-Dichlorobenzene	UG/KG	U	5.5 U	5.5 U	5.8 U
1,3-Dichloropropane	UG/KG	U	5.5 U	5.5 U	5.8 U
1,4-Dichlorobenzene	UG/KG	U	5.5 U	5.5 U	5.8 U
Acetone	UG/KG	U	22 U	22 U	23 U
Benzene	UG/KG	U	5.5 U	5.5 U	5.8 U
Bromodichloromethane	UG/KG				
Bromoform	UG/KG				
Carbon disulfide	UG/KG	U	5.5 U	5.5 U	5.8 U
Carbon tetrachloride	UG/KG	U	5.5 U	5.5 U	5.8 U
Chlorobenzene	UG/KG	U	5.5 U	5.5 U	5.8 U
Chlorodibromomethane	UG/KG	U	5.5 U	5.5 U	5.8 U
Chloroethane	UG/KG	U	11 U	11 U	12 U
Chloroform	UG/KG	U	5.5 U	5.5 U	5.8 U
Cis-1,2-Dichloroethene	UG/KG				
Cis-1,3-Dichloropropene	UG/KG				
Cyclohexane	UG/KG				
Dichlorodifluoromethane	UG/KG				
Ethyl benzene	UG/KG	U	5.5 U	5.5 U	5.8 U
Isopropylbenzene	UG/KG				
Meta/Para Xylene	UG/KG	U	5.5 U	5.5 U	5.8 U

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71
	Location ID-13	WS-71-D-009-2	WS-71-E1-009-3	WS-71-E3-009-10
	Maximix	SOIL	SOIL	SOIL
	Sample ID-13	WS-71-D-009-2	WS-71-E1-009-3	WS-71-E3-009-10
Sample Depth to Top of Sample ¹¹		0	0	0
Sample Depth to Bottom of Sample ¹¹		0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM
		1	1	1
Parameter	Units (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl Acetate	UG/KG			
Methyl Tertbutyl Ether	UG/KG			
Methyl bromide	UG/KG			
Methyl butyl ketone	UG/KG			
Methyl chloride	UG/KG			
Methyl cyclohexane	UG/KG			
Methyl ethyl ketone	UG/KG U	11 U	11 U	12 U
Methyl isobutyl ketone	UG/KG U	11 U	11 U	12 U
Methylene chloride	UG/KG J	5.5 U	5.5 U	5.8 U
Ortho Xylene	UG/KG U	5.5 U	5.5 U	5.8 U
Styrene	UG/KG			
Tetrachloroethene	UG/KG U	5.5 U	5.5 U	5.8 U
Toluene	UG/KG U	5.5 U	5.5 U	5.8 U
Total BTEX	MG/KG			
Total Xylenes	UG/KG			
Trans-1,2-Dichloroethene	UG/KG U	5.5 U	5.5 U	5.8 U
Trans-1,3-Dichloropropene	UG/KG			
Trichloromethane	UG/KG U	5.5 U	5.5 U	5.8 U
Trichlorofluoromethane	UG/KG			
Vinyl chloride	UG/KG U	11 U	11 U	12 U
Semivolatle Organics				
1,1'-Biphenyl	UG/KG			
1,2,4-Trichlorobenzene	UG/KG			
1,2-Dichlorobenzene	UG/KG			
1,3-Dichlorobenzene	UG/KG			
1,4-Dichlorobenzene	UG/KG			
2,2'-oxybis(1-Chloropropane)	UG/KG			
2,4,5-Trichlorophenol	UG/KG U	1100 U	360 U	1900 U
2,4,6-Trichlorophenol	UG/KG U	1100 U	360 U	1900 U
2,4-Dichlorophenol	UG/KG U	1100 U	360 U	1900 U
2,4-Dimethylphenol	UG/KG			
2,4-Dinitrophenol	UG/KG UJ	5600 U	1900 U	9800 UJ
2,4-Dinitrotoluene	UG/KG J	1100 U	360 U	1900 U
2,6-Dinitrotoluene	UG/KG U	1100 U	360 U	1900 U
2-Chloronaphthalene	UG/KG			
2-Chlorophenol	UG/KG U	1100 U	360 U	1900 U
2-Methylnaphthalene	UG/KG U	1100 U	360 U	1900 U
2-Methylphenol	UG/KG U	1100 U	360 U	1900 U
2-Nitroaniline	UG/KG U	5600 U	1900 U	9800 U
2-Nitrophenol	UG/KG U	1100 U	360 U	1900 U
3,3'-Dichlorobenzidine	UG/KG U	1100 U	360 U	1900 U
3-Nitroaniline	UG/KG U	5600 U	1900 U	9800 U
4,6-Dinitro-2-methylphenol	UG/KG			
4-Bromophenyl phenyl ether	UG/KG			
4-Chloro-3-methylphenol	UG/KG U	1100 U	360 U	1900 U

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71
	Location ID-13	WS-71-D-009-2	WS-71-E1-009-3	WS-71-E3-009-10
	Matrix	SOIL	SOIL	SOIL
	Sample ID-13	WS-71-D-009-2	WS-71-E1-009-3	WS-71-E3-009-10
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I
Parameter	Units (Q)	Value (Q)	Value (Q)	Value (Q)
4-Chloroaniline	UG/KG U	1100 U	360 U	1900 U
4-Chlorophenyl phenyl ether	UG/KG			
4-Methylphenol	UG/KG U	1100 U	360 U	1900 U
4-Nitroaniline	UG/KG			
4-Nitrophenol	UG/KG U	5600 U	1900 U	9800 U
Acenaphthene	UG/KG U	1100 U	43 J	1900 U
Acenaphthylene	UG/KG U	230 J	48 J	1900 U
Acetophenone	UG/KG			
Aniline	UG/KG U	1100 U	360 U	1900 U
Anthracene	UG/KG J	370 J	110 J	1900 U
Atrazine	UG/KG			
Benzaldehyde	UG/KG			
Benzo(a)anthracene	UG/KG J	1300	390	1900 U
Benzo(a)pyrene	UG/KG J	1500	330 J	1900 U
Benzo(b)fluoranthene	UG/KG J	1400	390	1900 U
Benzo(g,h)perylene	UG/KG J	910 J	270 J	1900 U
Benzo(k)fluoranthene	UG/KG J	1300	370 J	1900 U
Benzoic Acid	UG/KG U	5600 U	1900 U	9800 U
Bis(2-Chloroethoxy)methane	UG/KG			
Bis(2-Chloroethyl)ether	UG/KG			
Bis(2-Chloroisopropyl)ether	UG/KG			
Bis(2-Ethylhexyl)phthalate	UG/KG J	1100 U	360 U	1900 U
Butylbenzylphthalate	UG/KG U	1100 U	360 U	1900 U
Caprolactam	UG/KG			
Carbazole	UG/KG			
Chrysene	UG/KG J	1600	510	1900 U
Di-n-butylphthalate	UG/KG U	1100 U	360 U	1900 U
Di-n-octylphthalate	UG/KG U	1100 U	360 U	1900 U
Dihenz(a,h)anthracene	UG/KG J	310 J	86 J	1900 U
Dibenzofuran	UG/KG U	1100 U	360 U	1900 U
Diethyl phthalate	UG/KG U	1100 U	360 U	1900 U
Dimethylphthalate	UG/KG U	1100 U	360 U	1900 U
Fluoranthene	UG/KG	2800	800	270 J
Fluorene	UG/KG U	1100 U	360 U	1900 U
Hexachlorobenzene	UG/KG U	1100 U	360 U	1900 U
Hexachlorobutadiene	UG/KG U	1100 U	360 U	1900 U
Hexachlorocyclopentadiene	UG/KG			
Hexachloroethane	UG/KG U	1100 U	360 U	1900 U
Indeno(1,2,3-cd)pyrene	UG/KG J	880 J	250 J	1900 U
Isophorone	UG/KG U	1100 U	360 U	1900 U
N-Nitrosodiphenylamine	UG/KG			
N-Nitrosodipropylamine	UG/KG			
Naphthalene	UG/KG U	1100 U	360 U	1900 U
Nitrobenzene	UG/KG U	1100 U	360 U	1900 U

Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71
	Location ID-13	WS-71-D-009-2	WS-71-E1-009-3	WS-71-E3-009-10
	Matrix	SOIL	SOIL	SOIL
	Sample ID-13	WS-71-D-009-2	WS-71-E1-009-3	WS-71-E3-009-10
Sample Depth to Top of Sample ⁽¹⁾		0	0	0
Sample Depth to Bottom of Sample ⁽¹⁾		0	0	0
Sample Date		5/6/2004	5/6/2004	5/6/2004
QC Code		SA	SA	SA
Study ID		ENSR IRM	ENSR IRM	ENSR IRM
	Units (Q)	Value (Q)	Value (Q)	Value (Q)
Pentachlorophenol	UG/KG U	5600 U	1900 U	9800 U
Phenanthrene	UG/KG J	980 J	300 J	1900 U
Phenol	UG/KG U	1100 U	360 U	1900 U
Pyrene	UG/KG G	2200	660	1900 U
Pyridine	UG/KG U	5600 U	1900 U	9800 U
Pesticides/PCBs				
4,4'-DDD	UG/KG U	18 U	18 U	19 U
4,4'-DDE	UG/KG U	54 J	18 U	19 U
4,4'-DDT	UG/KG U	42	25	19 U
Aldrin	UG/KG U	9.3 U	9.4 U	9.8 U
Alpha-BHC	UG/KG U	9.3 U	9.4 U	9.8 U
Alpha-Chlordane	UG/KG U	9.3 U	9.4 U	9.8 U
Beta-BHC	UG/KG U	9.3 U	9.4 U	9.8 U
Delta-BHC	UG/KG U	9.3 U	9.4 U	9.8 U
Dieldrin	UG/KG U	18 U	18 U	19 U
Endosulfan I	UG/KG U	9.3 U	9.4 U	9.8 U
Endosulfan II	UG/KG U	18 U	18 U	19 U
Endosulfan sulfate	UG/KG U	18 U	18 U	19 U
Endrin	UG/KG U	18 U	18 U	19 U
Endrin aldehyde	UG/KG U	18 U	18 U	19 U
Endrin ketone	UG/KG U	18 U	18 U	19 U
Gamma-BHC/Lindane	UG/KG U	9.3 U	9.4 U	9.8 U
Gamma-Chlordane	UG/KG U	9.3 U	9.4 U	9.8 U
Heptachlor	UG/KG U	9.3 U	9.4 U	9.8 U
Heptachlor epoxide	UG/KG U	9.3 U	9.4 U	9.8 U
Methoxychlor	UG/KG U	93 U	94 U	98 U
Toxaphene	UG/KG U	180 U	180 U	190 U
Aroclor-1016	UG/KG U	36 U	36 U	38 U
Aroclor-1221	UG/KG U	36 U	36 U	38 U
Aroclor-1232	UG/KG U	36 U	36 U	38 U
Aroclor-1242	UG/KG U	36 U	36 U	38 U
Aroclor-1248	UG/KG U	36 U	36 U	38 U
Aroclor-1254	UG/KG U	36 U	36 U	38 U
Aroclor-1260	UG/KG U	36 U	36 U	38 U
Metals				
Aluminum	MG/KG	10100	13400	12600
Antimony	MG/KG	3.2 UJ	3.1 UJ	3.4 U
Arsenic	MG/KG	5.6	5.8	5 J
Barium	MG/KG	75.3	87	79.8

**Table D-5
SEAD-71 FENCED AREA EXCLUDED SOIL DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-71	SEAD-71	SEAD-71
	Location ID-13	WS-71-D-009-2	WS-71-E1-009-3	WS-71-E3-009-10
	Maxtix	SOIL	SOIL	SOIL
	Sample ID-13	WS-71-D-009-2	WS-71-E1-009-3	WS-71-E3-009-10
	Sample Depth to Top of Sample ⁽¹⁾	0	0	0
	Sample Depth to Bottom of Sample ⁽¹⁾	0	0	0
	Sample Date	5/6/2004	5/6/2004	5/6/2004
	QC Code	SA	SA	SA
	Study ID	ENSR IRM	ENSR IRM	ENSR IRM
		I	I	I
Parameter	Units (Q)	Value (Q)	Value (Q)	Value (Q)
Beryllium	MG/KG	0.28 J	0.51 J	0.27
Cadmium	MG/KG U	0.42 J	0.3 J	0.56 J
Calcium	MG/KG	48600 J	20200 J	23600 J
Chromium	MG/KG	18.1	20.6	18.1
Cobalt	MG/KG	9.1	10.7	9.3
Copper	MG/KG	33.1	102	21.1
Cyanide	MG/KG			
Iron	MG/KG	24800 J	25800 J	23300
Lead	MG/KG	97.5 J	19.2 J	15.1
Magnesium	MG/KG	9530 J	5510 J	7680
Manganese	MG/KG	516	618	617
Mercury	MG/KG	0.06	0.04	0.04
Nickel	MG/KG	24.1	29.2	24.7
Potassium	MG/KG	1300	1160	1030
Selenium	MG/KG U	0.54 U	0.52 U	0.57 U
Silver	MG/KG U	0.54 U	0.52 U	0.57 U
Sodium	MG/KG	78.1	52.1	57.4
Thallium	MG/KG J	0.6 J	0.77 J	0.57 U
Vanadium	MG/KG	18.2	20	19.3
Zinc	MG/KG J	93.8 J	80.3 J	67.9 J

Note(s)

- (1) - Historical sample depths are presented (i.e. prior to 2002 TCRA)
 - (2) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.
- U = compound was not detected
 J = the reported value is an estimated concentration
 (J) = the compound was not detected, the associated reporting limit is approximate
 R = the data was rejected in the data validating process
 NJ = compound was "tentatively identified" and the associated numerical value is approximate

Table D-6
SEAD-71 RI GROUNDWATER DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	MW71-1	MW71-1	MW71-1	MW71-2	MW71-3	MW71-4	MW71-4	MW71-4	MW71-4
	Maxtrix	GW	GW	GW	GW	GW	GW	GW	GW	GW
	Sample ID	712000	712007DUP	712007	712004	712001	712002D	712003	712002	712006
	Sample Depth to Top of Sample	8.4	0	0	0	7.51	20.67	20.67	20.67	0
	Sample Depth to Bottom of Sample	8.4	0	0	0	7.51	20.67	20.67	20.67	0
	Sample Date	4/6/2004	9/1/2004	9/1/2004	8/31/2004	4/6/2004	4/5/2004	4/5/2004	4/5/2004	8/31/2004
	QC Code	SA	DU	SA	SA	SA	DU	SA	SA	SA
	Study ID	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004
		1	2	2	2	1	1	1	1	2
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organics										
1,1,1,2-Tetrachloroethane	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		3.1	3.1	2.5
1,1,2,2-Tetrachloroethane	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (total)	UG/L									
1,2-Dichloropropane	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
1,3-Dichloropropane	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
2,2-Dichloropropane	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
2-Chlorotoluene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Acetone	UG/L									
Benzene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Bromobenzene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Bromochloromethane	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Bromodichloromethane	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Bromoform	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Carbon disulfide	UG/L									
Carbon tetrachloride	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Chlorobenzene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Chlorodibromomethane	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Chloroethane	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Chloroform	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Cis-1,2-Dichloroethene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Cis-1,3-Dichloropropene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Ethyl benzene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U

**Table D-6
SEAD-71 RI GROUNDWATER DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity**

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	MW71-1	MW71-1	MW71-1	MW71-2	MW71-3	MW71-4	MW71-4	MW71-4	MW71-4
	Matrix	GW	GW	GW	GW	GW	GW	GW	GW	GW
	Sample ID	712000	712007DUP	712007	712004	712001	712002D	712003	712002	712006
	Sample Depth to Top of Sample	8.4	0	0	0	7.51	20.67	20.67	20.67	0
	Sample Depth to Bottom of Sample	8.4	0	0	0	7.51	20.67	20.67	20.67	0
	Sample Date	4/6/2004	9/1/2004	9/1/2004	8/31/2004	4/6/2004	4/5/2004	4/5/2004	4/5/2004	8/31/2004
	QC Code	SA	DU	SA	SA	SA	DU	SA	SA	SA
	Study ID	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004
		1	2	2	2	1	1	1	1	2
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Isopropylbenzene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Meta/Para Xylene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Methyl bromide	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Methyl butyl ketone	UG/L									
Methyl chloride	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Methyl ethyl ketone	UG/L									
Methyl isobutyl ketone	UG/L									
Methylene bromide	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Methylene chloride	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Naphthalene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Ortho Xylene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Propylbenzene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Styrene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Tetrachloroethene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Toluene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Total Xylenes	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Trichloroethene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Vinyl acetate	UG/L	1 U		1 U	1 U	1 U		1 U	1 U	1 U
Vinyl chloride	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Semivolatile Organics										
n-Butylbenzene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
p-Chlorotoluene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
p-Isopropyltoluene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
sec-Butylbenzene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
tert-Butylbenzene	UG/L	0.5 U		0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
1,3-Dichlorobenzene	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
1,2-Diphenylhydrazine	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
1,3-Dichlorobenzene	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
1,4-Dichlorobenzene	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
2,2'-oxybis(1-Chloropropane)	UG/L									
2,4,5-Trichlorophenol	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
2,4,6-Trichlorophenol	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
2,4-Dichlorophenol	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
2,4-Dimethylphenol	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
2,4-Dinitrophenol	UG/L	19.4 U		21.7 U	22.2 U	20.2 U		19.6 U	19.2 U	19.2 U
2,4-Dinitrotoluene	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
2,6-Dichlorophenol	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U

Table D-6
SEAD-71 RI GROUNDWATER DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	MW71-1	MW71-1	MW71-1	MW71-2	MW71-3	MW71-4	MW71-4	MW71-4	MW71-4
	Matrix	GW	GW	GW	GW	GW	GW	GW	GW	GW
	Sample ID	712000	712007DUP	712007	712004	712001	712002D	712003	712002	712006
	Sample Depth to Top of Sample	8.4	0	0	0	7.51	20.67	20.67	20.67	0
	Sample Depth to Bottom of Sample	8.4	0	0	0	7.51	20.67	20.67	20.67	0
	Sample Date	4/6/2004	9/1/2004	9/1/2004	8/31/2004	4/6/2004	4/5/2004	4/5/2004	4/5/2004	8/31/2004
	QC Code	SA	DU	SA	SA	SA	DU	SA	SA	SA
	Study ID	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004
		1	2	2	2	1	1	1	1	2
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
2,6-Dinitrotoluene	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
2-Chloronaphthalene	UG/L	0.97 U		1.1 U	1.1 U	1.1 U		0.98 U	0.98 U	0.96 U
2-Chlorophenol	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
2-Methylnaphthalene	UG/L	0.97 U		1.1 U	1.1 U	1.1 U		0.98 U	0.98 U	0.96 U
2-Methylphenol	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
2-Nitroaniline	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
2-Nitrophenol	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
3,3'-Dichlorobenzidine	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
3-Nitroaniline	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
4,6-Dinitro-2-methylphenol	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
4-Bromophenyl phenyl ether	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
4-Chloro-3-methylphenol	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
4-Chloroaniline	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
4-Chlorophenyl phenyl ether	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
4-Methylphenol	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
4-Nitroaniline	UG/L	9.7 U		10.9 U	8.7 U	10.1 U		9.8 U	9.8 U	9.6 U
4-Nitrophenol	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
Acenaphthene	UG/L	0.97 U		1.1 U	1.1 U	1.1 U		0.98 U	0.98 U	0.96 U
Acenaphthylene	UG/L	0.97 U		1.1 U	1.1 U	1.1 U		0.98 U	0.98 U	0.96 U
Acetophenone	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
Anthracene	UG/L	0.97 U		1.1 U	1.1 U	1.1 U		0.98 U	0.98 U	0.96 U
Benzdine	UG/L	48.5 U		54.3 U	55.6 U	50.5 U		49.0 U	49.0 U	48.1 U
Benzo(a)anthracene	UG/L	0.97 U		1.1 U	1.1 U	1.1 U		0.98 U	0.98 U	0.96 U
Benzo(a)pyrene	UG/L	0.97 U		1.1 U	1.1 U	1.1 U		0.98 U	0.98 U	0.96 U
Benzo(b)fluoranthene	UG/L	0.97 U		1.1 U	1.1 U	1.1 U		0.98 U	0.98 U	0.96 U
Benzo(ghi)perylene	UG/L	0.97 U		1.1 U	1.1 U	1.1 U		0.98 U	0.98 U	0.96 U
Benzo(k)fluoranthene	UG/L	0.97 U		1.1 U	1.1 U	1.1 U		0.98 U	0.98 U	0.96 U
Benzoic Acid	UG/L	19.4 U		21.7 U	22.2 U	20.2 U		19.6 U	19.6 U	19.2 U
Benzyl alcohol	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
Bis(2-Chloroethoxy)methane	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
Bis(2-Chloroethyl)ether	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
Bis(2-Chloroisopropyl)ether	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
Bis(2-Ethylhexyl)phthalate	UG/L	9.7 U		10.9 U	11.1 U	1.6 U		9.8 U	9.8 U	9.6 U
Butylbenzylphthalate	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
Carbazole	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
Chrysene	UG/L	0.97 U		1.1 U	1.1 U	1.1 U		0.98 U	0.98 U	0.96 U
Di-n-butylphthalate	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
Di-n-octylphthalate	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
Dibenz(a,h)anthracene	UG/L	0.97 U		1.1 U	1.1 U	1.1 U		0.98 U	0.98 U	0.96 U
Dibenzofuran	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
Diethyl phthalate	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U

Table D-6
SEAD-71 RI GROUNDWATER DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

	Facility	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71
	Location ID	MW71-1	MW71-1	MW71-1	MW71-2	MW71-3	MW71-4	MW71-4	MW71-4	MW71-4
	Maximx	GW	GW	GW	GW	GW	GW	GW	GW	GW
	Sample ID	712000	712007DUP	712007	712004	712001	712002D	712003	712002	712006
	Sample Depth to Top of Sample	8.4	0	0	0	7.51	20.67	20.67	20.67	0
	Sample Depth to Bottom of Sample	8.4	0	0	0	7.51	20.67	20.67	20.67	0
	Sample Date	4/6/2004	9/1/2004	9/1/2004	8/31/2004	4/6/2004	4/5/2004	4/5/2004	4/5/2004	8/31/2004
	QC Code	SA	DU	SA	SA	SA	DU	SA	SA	SA
	Study ID	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004	RI 2004
		1	2	2	2	1	1	1	1	2
Parameter	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dimethylphthalate	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
Diphenylamine	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
Fluorantbene	UG/L	0.97 U		1.1 U	1.1 U	1 U		0.98 U	0.98 U	0.96 U
Fluorene	UG/L	0.97 U		1.1 U	1.1 U	1 U		0.98 U	0.98 U	0.96 U
Hexachlorobenzene	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
Hexachlorobutadiene	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
Hexachlorocyclopentadiene	UG/L									
Hexachloroethane	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
Indeno(1,2,3-cd)pyrene	UG/L	0.97 UJ		1.1 U	1.1 U	1 U		0.98 U	0.98 U	0.96 U
Isophorone	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
N-Nitrosodimethylamine	UG/L	9.7 UJ		10.9 U	11.1 U	10.1 UJ		9.8 U	9.8 U	9.6 U
N-Nitrosodiphenylamine	UG/L									
N-Nitrosodipropylamine	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
N-Nitrosopyrrolidine	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
Naphthalene	UG/L	0.97 U		1.1 U	1.1 U	1 U		0.98 U	0.98 U	0.96 U
Nitrobenzene	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 U
Pentachlorophenol	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 UJ
Phenanthrene	UG/L	0.97 U		1.1 U	1.1 U	1 U		0.98 U	0.98 U	0.96 U
Phenol	UG/L	9.7 U		10.9 U	11.1 U	10.1 U		9.8 U	9.8 U	9.6 UJ
Pyrene	UG/L	0.97 U		1.1 U	1.1 U	1 U		0.98 U	0.98 U	0.96 U
Pesticides/PCBs										
4,4'-DDD	UG/L	0.04 U		0.0396 U	0.0388 U	0.0385 U		0.0385 U	0.0364 UJ	0.0408 U
4,4'-DDE	UG/L	0.04 U		0.0396 U	0.0388 U	0.006 J		0.0385 U	0.006 J	0.0408 U
4,4'-DDT	UG/L	0.04 U		0.0396 U	0.0388 U	0.043		0.0385 UJ	0.04 J	0.0437
Aldrin	UG/L	0.02 U		0.0198 U	0.0194 U	0.0192 U		0.0192 U	0.0182 UJ	0.0204 U
Alpha-BHC	UG/L	0.02 U		0.0198 U	0.0194 U	0.0192 U		0.0192 U	0.0182 UJ	0.0204 U
Alpha-Chlordane	UG/L									
Beta-BHC	UG/L	0.02 U		0.0198 U	0.0194 U	0.0192 U		0.0192 U	0.0182 UJ	0.0204 U
Chlordane	UG/L	0.25 U		0.248 U	0.243 U	0.24 U		0.24 U	0.227 UJ	0.255 UJ
Delta-BHC	UG/L	0.02 U		0.0198 U	0.0194 U	0.0192 U		0.0192 U	0.0182 UJ	0.0204 U
Dieldrin	UG/L	0.04 U		0.0396 U	0.0388 U	0.0385 U		0.0385 U	0.0364 UJ	0.0408 U
Endosulfan I	UG/L	0.02 U		0.0198 U	0.0194 U	0.0192 U		0.0192 U	0.0182 UJ	0.0204 U
Endosulfan II	UG/L	0.04 U		0.0396 U	0.0388 U	0.0385 U		0.0385 U	0.0364 UJ	0.0408 U
Endosulfan sulfate	UG/L	0.04 U		0.0396 U	0.0388 U	0.0385 U		0.0385 U	0.0364 UJ	0.0408 U
Endrin	UG/L	0.04 U		0.0396 U	0.0388 U	0.0385 U		0.0385 U	0.0364 UJ	0.0408 U
Endrin aldehyde	UG/L	0.04 U		0.0396 U	0.0388 U	0.0385 U		0.0385 U	0.0364 UJ	0.0408 U
Endrin ketone	UG/L	0.04 U		0.0396 U	0.0388 U	0.008 J		0.0385 U	0.0364 UJ	0.0408 U
Gamma-BHC/Lindane	UG/L	0.02 U		0.0198 U	0.0194 U	0.0192 U		0.0192 U	0.0182 UJ	0.0204 U
Gamma-Chlordane	UG/L									
Heptachlor	UG/L	0.02 UJ		0.0198 U	0.0194 U	0.0192 U		0.0192 U	0.0182 UJ	0.0204 U
Heptachlor epoxide	UG/L	0.02 U		0.0198 U	0.0194 U	0.0192 U		0.0192 U	0.0182 UJ	0.0204 U

Table D-6
SEAD-71 RI GROUNDWATER DATASET
SEAD-59 and SEAD-71 Record of Decision
Seneca Army Depot Activity

Parameter	Units	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	SEAD-71	
		Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Methoxychlor	UG/L	0.2 U		0.198 U	0.194 U	0.192 U		0.192 U	0.182 UJ	
Toxaphene	UG/L	1 U		0.99 U	0.971 U	0.962 U		0.962 U	0.909 UJ	
Aroclor-1016	UG/L	0.5 U		0.495 U	0.485 U	0.481 U		0.481 U	0.454 UJ	
Aroclor-1221	UG/L	0.5 U		0.495 U	0.485 U	0.481 U		0.481 U	0.454 UJ	
Aroclor-1232	UG/L	0.5 U		0.495 U	0.485 U	0.481 U		0.481 U	0.454 UJ	
Aroclor-1242	UG/L	0.5 U		0.495 U	0.485 U	0.481 U		0.481 U	0.454 UJ	
Aroclor-1248	UG/L	0.5 U		0.495 U	0.485 U	0.481 U		0.481 U	0.454 UJ	
Aroclor-1254	UG/L	0.5 U		0.495 U	0.485 U	0.481 U		0.481 U	0.454 UJ	
Aroclor-1260	UG/L	0.5 U		0.495 U	0.485 U	0.481 U		0.481 U	0.454 UJ	
Metals										
Aluminum	UG/L	14.7 U		51.2 J	100 U	12200	14.7 U	14.7 U	14.7 U	146
Antimony	UG/L	6.52 J		10 U	10 U	5.08 U	6.9 J	7.4 J	5.16 J	10 U
Arsenic	UG/L	2.24 U		5 U	5 U	2.24 U	22.4 U	22.4 U	22.4 U	5 U
Barium	UG/L	37.1		46.9 J	121	47.9	61.8	63.3	62.4	74.3
Beryllium	UG/L	0.158 U		5 U	5 U	0.819	0.158 U	0.158 U	0.158 U	5 U
Cadmium	UG/L	0.313 U		5 U	5 U	0.313 U	0.313 U	0.313 U	0.313 U	5 U
Calcium	UG/L	218000		210000 J	164000	174000	178000	178000	178000	148000
Chromium	UG/L	0.503 U		5 U	5 U	4.58	0.503 U	0.503 U	0.503 U	0.82 J
Cobalt	UG/L	0.541 U		5 U	1.2 J	0.631 J	0.541 U	0.541 U	0.541 U	5 U
Copper	UG/L	1.39 U		5 U	5 U	5.3	1.39 U	1.44 J	1.41 J	5 U
Cyanide	UG/L									
Iron	UG/L	30.2 J		39.1 J	83.7	4470	14.4 J	24.7 J	21.1 J	148
Lead	UG/L	1.72 U		5 U	2.1 J	7.3	1.72 U	1.72 U	1.72 U	5 U
Magnesium	UG/L	28800		28400	20500	12500	21500	21700	21600	20100
Manganese	UG/L	46.5		16.1 J	2680	76.7	0.296 U	0.296 U	0.296 U	8.1
Mercury	UG/L	0.047 U	0.2 U	0.2 U	0.2 U	0.069 J	0.049 J	0.047 U	0.047 U	0.2 U
Nickel	UG/L	0.69 U		1.7 J	6.6	4.79	0.69 U	0.69 U	0.69 U	0.74 J
Potassium	UG/L	765 J		842 J	1150	950 J	1070 J	1090 J	1090 J	1050
Selenium	UG/L	2.81 U		5 R	5 U	2.81 U	2.81 U	2.81 U	2.81 U	5 R
Silver	UG/L	0.835 U		5 U	5 U	0.835 U	0.835 U	0.835 U	0.835 U	5 U
Sodium	UG/L	6720		7920 J	16000	62200	42100	42500	41600	48200
Thallium	UG/L	10 U		20 U	20 U	10 U	10 U	10 U	10 U	20 U
Vanadium	UG/L	0.606 U		5 U	5 U	3 J	0.606 U	0.606 U	0.606 U	5 U
Zinc	UG/L	2.26 J		1.6 J	83.4	41.7	8.1	8.48	8.5	9.2

Note(s)
 (1) - Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected, the associated reporting limit is approximate
 R = the data was rejected in the data validating process

NJ = compound was "tentatively identified" and the associated numerical value is approximate

Appendix E

Human Health Risk Assessment Uncertainty Analysis Risk Calculation Tables

- 1A Occurrence, Distribution, and Selection of Chemicals of Potential Concern in SEAD-59 Soil
- 1B Occurrence, Distribution, and Selection of Chemicals of Potential Concern in SEAD-59 Groundwater
- 1C Occurrence, Distribution, and Selection of Chemicals of Potential Concern in SEAD-59 Stockpile Soil
- 1D Occurrence, Distribution, and Selection of Chemicals of Potential Concern in SEAD-71 Soil (Fenced Area Excluded)
- 1E Occurrence, Distribution, and Selection of Chemicals of Potential Concern in SEAD-71 Groundwater (Fenced Area Excluded)
- 2A SEAD-59 Surface Soil – Soil Exposure Point Concentration Summary
- 2B SEAD-59 Surface and Subsurface Soil – Soil Exposure Point Concentration Summary
- 2C SEAD-59 Surface Soil – Ambient Air Exposure Point Concentrations
- 2D SEAD-59 Surface and Subsurface Soil – Ambient Air Exposure Point Concentrations
- 2E SEAD-59 Groundwater Exposure Point Concentration Summary
- 2F SEAD-59 Stockpile Soil – Soil Exposure Point Concentration Summary
- 2G SEAD-59 Stockpile Soil – Ambient Air Exposure Point Concentrations
- 2H SEAD-71 Surface Soil (Fenced Area Excluded) – Soil Exposure Point Concentration Summary
- 2I SEAD-71 Surface and Subsurface Soil (Fenced Area Excluded) – Soil Exposure Point Concentration Summary
- 2J SEAD-71 Surface Soil (Fenced Area Excluded) – Ambient Air Exposure Point Concentrations
- 2K SEAD-71 Surface and Subsurface Soil (Fenced Area Excluded) – Ambient Air Exposure Point Concentrations
- 2L SEAD-71 Groundwater Exposure Point Concentration Summary
- 3 Exposure Factor Assumptions for Adolescent Trespasser

Appendix E (Continued)

- 4A Non-Cancer Toxicity Data – Oral/Dermal
- 4B Non-Cancer Toxicity Data – Inhalation
- 4C Cancer Toxicity Data – Oral/Dermal
- 4D Cancer Toxicity Data – Inhalation
- 5A Calculation of Intake and Risk from the Ingestion of SEAD-59 Soil – RME
- 5B Calculation of Intake and Risk from the Ingestion of SEAD-59 Stockpile Soil – RME
- 5C Calculation of Intake and Risk from the Ingestion of SEAD-71 Soil (Fenced Area Excluded) – RME
- 6A Calculation of Absorbed Dose and Risk from Dermal Contact to SEAD-59 Soil – RME
- 6B Calculation of Absorbed Dose and Risk from Dermal Contact to SEAD-59 Stockpile Soil – RME
- 6C Calculation of Absorbed Dose and Risk from Dermal Contact to SEAD-71 Soil (Fenced Area Excluded) – RME
- 7A Calculation of intake and Risk from Inhalation of SEAD-59 Dust in Ambient Air – RME
- 7B Calculation of intake and Risk from Inhalation of SEAD-59 Stockpile Dust in Ambient Air – RME
- 7C Calculation of intake and Risk from Inhalation of SEAD-71 Dust in Ambient Air (Fenced Area Excluded) – RME
- 8A Calculation of Absorbed Dose and Risk from Dermal Contact to SEAD-59 Groundwater – RME
- 8B Calculation of Absorbed Dose and Risk from Dermal Contact to SEAD-71 Groundwater – RME
- 9A Calculation of Intake and Risk from the Intake of SEAD-59 Groundwater – RME
- 9B Calculation of Intake and Risk from the Intake of SEAD-71 Groundwater – RME
- 10 Calculation of Blood Level Concentration – Industrial Worker Exposed to SEAD-59 Stockpile Soil
- 11 Calculation of Blood Level Concentration – Construction Worker Exposed to SEAD-59 Stockpile Soil
- 12 Calculation of Blood Lead Level Concentration – Child Exposed to SEAD-59 Stockpile Soil

Appendix E (Continued)

- 13 Calculation of Blood Level Concentration – Industrial Construction Worker Exposed to SEAD-71 Surface Soil
- 14 Calculation of Blood Level Concentration – Construction Worker Exposed to SEAD-71 Surface and Subsurface Soil
- 15 Calculation of Blood Lead Level Concentration – Child Exposed to SEAD-71 Soil and Groundwater

APPENDIX E TABLE 1A
 OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN IN SEAD-59 SITE SOIL
 SEAD-59 AND SEAD-71 PHASE II R1
 Seneca Army Depot Activity

Scenario Time frame:	CURRENT/FUTURE
Medium:	Soil
Exposure Medium:	Soil
Exposure Point:	SEAD-59

CAS Number	Chemical	Minimum Detected Concentration ¹ (mg/kg)	Q	Maximum Detected Concentration ¹ (mg/kg)	Q	Location of Maximum Concentration	Detection Frequency ¹	Range of Reporting Limits ¹ (mg/kg)	Concentration Used for Screening ² (mg/kg)	Background Value ³ (mg/kg)	Screening Value ⁴ (mg/kg)	Potential ARAR/TBC Source	ARAR / TBC Value ⁵ (mg/kg)	COPC Flag	Rationale for Contaminant Deletion or Selection ⁶
VOC															
75-35-4	1,1-Dichloroethene	0.001	J	0.008	J	CL-59-01-WS5	3 / 198	0.004 - 0.12	0.008		12	NYSDEC TAGM 4046	0.4	NO	BSL
67-64-1	Acetone	0.004	J	0.55	NJ	CL-59-01-WE4	47 / 198	0.004 - 0.12	0.55		1,400	NYSDEC TAGM 4046	0.2	NO	BSL
71-43-2	Benzene	0.001	J	0.0058	J	SB59-17	8 / 198	0.004 - 0.12	0.0058		0.64	NYSDEC TAGM 4046	0.06	NO	BSL
75-15-0	Carbon disulfide	0.001	J	0.004	J	SB59-4	6 / 198	0.004 - 0.12	0.004		36	NYSDEC TAGM 4046	2.7	NO	BSL
110-82-7	Cyclohexane	0.001	J	0.003	J	WS-59-04-010-5	8 / 98	0.004 - 0.023	0.003		14			NO	BSL
100-41-1	Ethyl benzene	0.0023	J	0.11	J	TP59-13A-1	4 / 198	0.004 - 0.055	0.11		400	NYSDEC TAGM 4046	5.5	NO	BSL
	Meta/Para Xylene	0.0051	J	0.0084	J	WS-59-03-001-2	3 / 70	0.0054 - 0.006	0.0084		27			NO	BSL
79-20-9	Methyl Acetate	0.001	J	0.002	J	CL-59-OTHERB-WE1	3 / 98	0.004 - 0.023	0.002		2,200			NO	BSL
74-87-3	Methyl chloride	0.003	J	0.003	J	TP59-5	1 / 128	0.004 - 0.12	0.003		4.7			NO	BSL
108-87-2	Methyl cyclohexane	0.001	J	0.005	J	WS-59-04-010-5	10 / 98	0.004 - 0.023	0.005		260			NO	BSL
78-93-3	Methyl ethyl ketone	0.002	J	0.19	J	CL-59-01-WE4	25 / 198	0.004 - 0.12	0.19		2,200	NYSDEC TAGM 4046	0.3	NO	BSL
108-10-1	Methyl isobutyl ketone	0.0019	J	0.0019	J	CL-59-OTHERC-WS1	1 / 198	0.004 - 0.12	0.0019		530	NYSDEC TAGM 4046	1	NO	BSL
75-09-2	Methylene chloride	0.001	J	0.0049	J	WS-59-01-018-1	37 / 199	0.004 - 0.12	0.0049		9.1	NYSDEC TAGM 4046	0.1	NO	BSL
95-47-6	Ortho Xylene	0.0011	NJ	0.0036	J	FD-59-WS-01/WS-59-03-001-3	3 / 70	0.0054 - 0.006	0.0036		27			NO	BSL
127-18-4	Tetrachloroethene	0.002	J	0.0064	J	WS-59-01-017-1	5 / 198	0.004 - 0.12	0.0064		0.48	NYSDEC TAGM 4046	1.4	NO	BSL
108-88-3	Toluene	0.0009	J	0.011	J	SB59-17	17 / 198	0.004 - 0.12	0.011		520	NYSDEC TAGM 4046	1.5	NO	BSL
	Total BTEX	0.0025		0.0095		TP59-13C-1	16 / 18	1.25 - 1.25	0.0095					NO	ICE
133-02-07	Total Xylenes	0.001	J	0.073	J	SB59-17	8 / 123	0.004 - 0.12	0.073		27	NYSDEC TAGM 4046	1.2	NO	BSL
79-01-6	Trichloroethene	0.001	J	0.0045	J	WS-59-01-006-4	8 / 198	0.004 - 0.12	0.0045		0.053	NYSDEC TAGM 4046	0.7	NO	BSL
75-69-4	Trichlorofluoromethane	0.006	J	0.006	J	WS-59-04-010-6	1 / 98	0.004 - 0.023	0.006		39			NO	BSL
SVOC															
92-52-4	1,1'-Biphenyl	0.059	NJ	0.15	J	FD-59-WS-6/WS-59-01-012-1	2 / 99	0.35 - 1.9	0.15		300			NO	BSL
91-57-6	2-Methylnaphthalene	0.01	J	10	J	TP59-13A-1	46 / 199	0.066 - 4	10		31	NYSDEC TAGM 4046	36.4	NO	BSL
106-47-8	4-Chloroaniline	0.13	J	1.2	J	CL-59-01-WN2	2 / 199	0.066 - 8	1.2		24	NYSDEC TAGM 4046	0.22	NO	BSL
106-44-5	4-Methylphenol	0.024	NJ	0.15	J	CL-59-01-WN5	7 / 199	0.066 - 8	0.15		31	NYSDEC TAGM 4046	0.9	NO	BSL
83-32-9	Acenaphthene	0.0061	J	2.68	J	FD-59-WS-07/WS-59-01-015-13	54 / 199	0.066 - 4	2.68		370	NYSDEC TAGM 4046	50	NO	BSL
208-96-8	Accenaphthylene	0.0079	J	1.7	J	WS-59-01-006-11	76 / 199	0.066 - 8	1.7			NYSDEC TAGM 4046	41	NO	NSV
120-12-7	Anthracene	0.0084	J	4.395	J	FD-59-WS-07/WS-59-01-015-13	87 / 199	0.066 - 8	4.395		2,200	NYSDEC TAGM 4046	50	NO	BSL
1912-24-9	Atrazine	0.12	J	0.12	J	CL-59-01-WN2	1 / 99	0.35 - 1.9	0.12		0.22			NO	BSL
100-52-7	Benzaldehyde	0.05	J	0.05	J	CL-59-01-WE4	1 / 99	0.35 - 1.9	0.05		610			NO	BSL

APPENDIX E TABLE 1A
 OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN IN SEAD-59 SITE SOIL
 SEAD-59 AND SEAD-71 PHASE II RI
 Seneca Army Depot Activity

Scenario Time frame:	Current/Future
Medium:	Soil
Exposure Medium:	Soil
Exposure Point:	SEAD-59

CAS Number	Chemical	Minimum Detected Concentration ¹ (mg/kg)	Q	Maximum Detected Concentration ¹ (mg/kg)	Q	Location of Maximum Concentration	Detection Frequency ¹	Range of Reporting Limits ¹ (mg/kg)	Concentration Used for Screening ² (mg/kg)	Background Value ³ (mg/kg)	Screening Value ⁴ (mg/kg)	Potential ARAR/TBC Source	ARAR / TBC Value ⁵ (mg/kg)	COPC Flag	Rationale for Contaminant Deletion or Selection ⁶
56-55-3	Benzo(a)anthracene	0.0038	J	8.9	J	FD-59-WS-07/WS-59-01-015-13	104 / 199	0.069 - 8	8.9		0.62	NYSDEC TAGM 4046	0.224	YES	ASL
50-32-8	Benzo(a)pyrene	0.0036	J	8.05	J	FD-59-WS-07/WS-59-01-015-13	105 / 199	0.069 - 8	8.05		0.062	NYSDEC TAGM 4046	0.061	YES	ASL
204-09-2	Benzo(b)fluoranthene	0.0038	J	6.8	J	FD-59-WS-07/WS-59-01-015-13	108 / 199	0.078 - 8	6.8		0.62	NYSDEC TAGM 4046	1.1	YES	ASL
191-24-2	Benzo(ghi)perylene	0.0063	J	5.2	J	FD-59-WS-07/WS-59-01-015-13	95 / 199	0.069 - 8	5.2			NYSDEC TAGM 4046	50	NO	NSV
207-08-9	Benzo(k)fluoranthene	0.0037	J	7.35	J	FD-59-WS-07/WS-59-01-015-13	101 / 199	0.069 - 8	7.35		6.2	NYSDEC TAGM 4046	1.1	YES	ASL
117-81-7	Bis(2-Ethylhexyl)phthalate	0.007	J	0.52	J	SB59-1	49 / 199	0.35 - 8	0.52		35	NYSDEC TAGM 4046	50	NO	BSL
85-68-7	Butylbenzylphthalate	0.0042	J	1	J	TP59-15-5	2 / 199	0.066 - 8	1		1,200	NYSDEC TAGM 4046	50	NO	BSL
86-74-8	Carbazole	0.0066	J	1.5	J	TP59-2	31 / 129	0.069 - 8	1.5		24			NO	BSL
218-01-9	Chrysene	0.0048	J	8.9	J	FD-59-WS-07/WS-59-01-015-13	106 / 199	0.069 - 8	8.9		62	NYSDEC TAGM 4046	0.4	YES	CSG
53-70-3	Dibenz(a,h)anthracene	0.0047	J	1.665	J	FD-59-WS-07/WS-59-01-015-13	76 / 199	0.066 - 8	1.665		0.062	NYSDEC TAGM 4046	0.014	YES	ASL
132-64-9	Dibenzofuran	0.0056	J	1.875	J	FD-59-WS-07/WS-59-01-015-13	38 / 199	0.066 - 4	1.875		15	NYSDEC TAGM 4046	6.2	NO	BSL
84-66-2	Diallylphthalate	0.0053	J	0.012	J	SB59-9	9 / 199	0.078 - 8	0.012		4,900	NYSDEC TAGM 4046	7.1	NO	BSL
84-74-2	Di-n-butylphthalate	0.0048	J	0.49	J	SB59-1	13 / 199	0.076 - 8	0.49		610	NYSDEC TAGM 4046	8.1	NO	BSL
117-84-0	Di-n-octylphthalate	0.0056	J	0.011	J	SB59-8	2 / 199	0.066 - 8	0.011		240	NYSDEC TAGM 4046	50	NO	BSL
206-44-0	Fluoranthene	0.0048	J	23.5	J	FD-59-WS-07/WS-59-01-015-13	112 / 199	0.069 - 8	23.5		230	NYSDEC TAGM 4046	50	NO	BSL
86-73-7	Fluorene	0.0086	J	3	J	TP59-13A-1	60 / 199	0.066 - 4	3		270	NYSDEC TAGM 4046	50	NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	0.006	J	4.95	J	FD-59-WS-07/WS-59-01-015-13	97 / 199	0.069 - 8	4.95		0.62	NYSDEC TAGM 4046	3.2	YES	ASL
91-20-3	Naphthalene	0.01	J	1.325	J	FD-59-WS-07/WS-59-01-015-13	44 / 199	0.066 - 8	1.325		5.6	NYSDEC TAGM 4046	13	NO	BSL
86-30-6	N-Nitrosodiphenylamine	0.1	J	0.1	J	CL-59-01-WN2	1 / 129	0.066 - 8	0.1		99			NO	BSL
85-01-8	Phenanthrene	0.0046	J	21.3	J	FD-59-WS-07/WS-59-01-015-13	107 / 199	0.069 - 0.46	21.3			NYSDEC TAGM 4046	50	NO	NSV
108-95-2	Phenol	0.017	J	0.017	J	TP59-6-2	1 / 199	0.066 - 8	0.017		1,800	NYSDEC TAGM 4046	0.03	NO	BSL

**APPENDIX E TABLE 1A
 OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN IN SEAD-59 SITE SOIL
 SEAD-59 AND SEAD-71 PHASE II RI
 Seneca Army Depot Activity**

Scenario Time frame:	Current/Future
Medium:	Soil
Exposure Medium:	Soil
Exposure Point:	SEAD-59

CAS Number	Chemical	Minimum Detected Concentration ¹ (mg/kg)	Q	Maximum Detected Concentration ¹ (mg/kg)	Q	Location of Maximum Concentration	Detection Frequency ¹	Range of Reporting Limits ¹ (mg/kg)	Concentration Used for Screening ² (mg/kg)	Background Value ³ (mg/kg)	Screening Value ⁴ (mg/kg)	Potential ARAR/TBC Source	ARAR / TBC Value ⁵ (mg/kg)	COPC Flag	Rationale for Contaminant Deletion or Selection ⁶
129-00-0	Pyrene	0.0051	J	19.2	J	FD-59-WS-07/WS-59-01-015-13	114 / 198	0.069 - 8	19.2		230	NYSDEC TAGM 4046	50	NO	BSL
PCB															
11096-82-5	Aroclor-1260	0.077		0.079	NJ	CL-59-OTHERC-WE2	2 / 199	0.035 - 0.42	0.079		0.22	NYSDEC TAGM 4046	10	NO	BSL
Pesticides															
72-54-8	4,4'-DDD	0.0025	J	0.74	J	CL-59-01-WN2	55 / 199	0.0034 - 0.099	0.74		2.4	NYSDEC TAGM 4046	2.9	NO	BSL
72-55-9	4,4'-DDE	0.0018	J	2.6	J	CL-59-01-WN2	75 / 199	0.0034 - 0.099	2.6		1.7	NYSDEC TAGM 4046	2.1	YES	ASL
50-29-3	4,4'-DDT	0.0024	J	3.7	J	CL-59-01-WN2	66 / 199	0.0034 - 0.099	3.7		1.7	NYSDEC TAGM 4046	2.1	YES	ASL
309-00-2	Aldrin	0.0012	J	0.0012	J	SB59-2	1 / 199	0.0018 - 0.22	0.0012		0.029	NYSDEC TAGM 4046	0.041	NO	BSL
319-84-6	Alpha-BHC	0.009		0.0099	J	MW59-4	2 / 199	0.0018 - 0.22	0.0099		0.9	NYSDEC TAGM 4046	0.11	NO	BSL
5103-71-9	Alpha-Chlordane	0.0011	J	0.034	J	WS-59-04-010-10	9 / 199	0.0018 - 0.22	0.034		1.6			NO	BSL
319-85-7	Beta-BHC	0.0024	J	0.0036	J	SB59-8	6 / 199	0.0018 - 0.22	0.0036		0.32	NYSDEC TAGM 4046	0.2	NO	BSL
319-86-8	Delta-BHC	0.00095	J	0.0014	J	SB59-8	4 / 199	0.0018 - 0.22	0.0014		0.09	NYSDEC TAGM 4046	0.3	NO	BSL
60-57-1	Dieldrin	0.0018	J	0.0018	J	TP59-8-2	1 / 199	0.0034 - 0.43	0.0018		0.030	NYSDEC TAGM 4046	0.044	NO	BSL
959-98-8	Endosulfan I	0.0041	J	0.016	J	SB59-2	2 / 199	0.0018 - 0.22	0.016		37	NYSDEC TAGM 4046	0.9	NO	BSL
33213-65-9	Endosulfan II	0.0071	J	0.0071	J	TP59-2	1 / 199	0.0034 - 0.43	0.0071		37	NYSDEC TAGM 4046	0.9	NO	BSL
1031-07-8	Endosulfan sulfate	0.0043	J	0.0062	J	CL-59-OTHERC-WE2	2 / 199	0.0034 - 0.43	0.0062		37	NYSDEC TAGM 4046	1	NO	BSL
72-20-8	Endrin	0.0038	NJ	0.016	NJ	CL-59-04-FO1	4 / 199	0.0034 - 0.43	0.016		1.8	NYSDEC TAGM 4046	0.1	NO	BSL
7421-93-4	Endrin aldehyde	0.0035	J	0.0063	J	TP59-2	5 / 199	0.0034 - 0.43	0.0063		1.8			NO	BSL
53494-70-5	Endrin ketone	0.0033	J	0.038	J	WS-59-01-011-3	5 / 199	0.0034 - 0.43	0.038		1.8			NO	BSL
5103-74-2	Gamma-Chlordane	0.001	J	0.024	J	WS-59-04-010-10	16 / 199	0.0018 - 0.22	0.024		1.6	NYSDEC TAGM 4046	0.54	NO	BSL
1024-57-3	Heptachlor epoxide	0.001	J	0.0057	J	TP59-6-2	5 / 199	0.0018 - 0.22	0.0057		0.053	NYSDEC TAGM 4046	0.02	NO	BSL
Metals															
7429-90-5	Aluminum	4,200		18,300	J	CL-59-01-F12	199 / 199		18,300	20,500	7,600	NYSDEC TAGM 4046	19,300	YES	ASL
7440-36-0	Antimony	0.24	J	424	J	SB59-4	107 / 199	0.14 - 3.62	424	6.55	3.1	NYSDEC TAGM 4046	5.9	YES	ASL
7440-38-2	Arsenic	2.3	J	32.2	J	CL-59-01-WN2	199 / 199		32.2	21.5	0.39	NYSDEC TAGM 4046	8.2	YES	ASL
7440-39-3	Barium	21.1	J	304	J	SB59-4	199 / 199		304	159	540	NYSDEC TAGM 4046	300	NO	BSL
7440-41-7	Beryllium	0.11	J	2.6	J	CL-59-01-WN2	197 / 199	0.05 - 0.045	2.6	1.4	15	NYSDEC TAGM 4046	1.1	NO	BSL
7440-43-9	Cadmium	0.1	J	3.2	J	SB59-4	158 / 199	0.07 - 0.15	3.2	2.9	3.7	NYSDEC TAGM 4046	2.3	NO	BSL
7440-70-2	Calcium	1,350	J	214,000	J	SB59-4	199 / 199		214,000	293,000	2,500,000	NYSDEC TAGM 4046	121,000	NO	NUT
7440-47-3	Chromium	7.4	J	39.3	J	CL-59-01-WN2	199 / 199		39.3	32.7	210	NYSDEC TAGM 4046	29.6	NO	BSL
7440-48-4	Cobalt	3.8	J	47.8	J	CL-59-01-WN2	199 / 199		47.8	29.1	900	NYSDEC TAGM 4046	30	NO	BSL
7440-50-8	Copper	9.8	J	305	J	WS-59-01-013-5	199 / 199		305	62.8	310	NYSDEC TAGM 4046	33	NO	BSL
7439-89-6	Iron	6,540	J	64,000	J	CL-59-01-WN2	199 / 199		64,000	38,600	2,300	NYSDEC TAGM 4046	36,500	YES	ASL
7439-92-1	Lead	4.1	J	164	J	WS-59-01-006-8	199 / 199		164	266	400	NYSDEC TAGM 4046	24.8	NO	BSL
7439-95-4	Magnesium	2,530		34,400	J	SB59-5	199 / 199		34,400	29,100	400,000	NYSDEC TAGM 4046	21,500	NO	NUT

APPENDIX E TABLE 1A
 OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN IN SEAD-59 SITE SOIL
 SEAD-59 AND SEAD-71 PHASE II RI
 Seneca Army Depot Activity

Scenario Time frame:	Current/Future
Medium:	Soil
Exposure Medium:	Soil
Exposure Point:	SEAD-59

CAS Number	Chemical	Minimum Detected Concentration ¹ (mg/kg)	Q	Maximum Detected Concentration ¹ (mg/kg)	Q	Location of Maximum Concentration	Detection Frequency ¹	Range of Reporting Limits ¹ (mg/kg)	Concentration Used for Screening ² (mg/kg)	Background Value ³ (mg/kg)	Screening Value ⁴ (mg/kg)	Potential ARAR/TBC Source	ARAR / TBC Value ⁵ (mg/kg)	COPC Flag	Rationale for Contaminant Deletion or Selection ⁶
7439-96-5	Manganese	156	J	1,290	J	CL-59-01-WS6	199 / 199		1,290	2,380	180	NYSDEC TAGM 4046	1,060	YES	ASL
7439-97-6	Mercury	0.02	J	0.95	J	WS-59-04-010-6	179 / 198	0.02 - 0.03	0.95	0.13	2.3	NYSDEC TAGM 4046	0.1	NO	BSL
7440-02-0	Nickel	9	J	88.3	J	CL-59-01-WN2	199 / 199		88.3	62.3	160	NYSDEC TAGM 4046	49	NO	BSL
7440-09-7	Potassium	539	J	2,520	J	SB59-1	199 / 199		2,520	3,160	5,000,000	NYSDEC TAGM 4046	2,380	NO	NUT
7782-49-2	Selenium	0.28	J	1.5	J	SB59-21	21 / 199	0.12 - 0.58	1.5	1.7	39	NYSDEC TAGM 4046	2	NO	BSL
7440-22-4	Silver	0.11	J	2.9	J	CL-59-OTHERA-WN1	88 / 199	0.08 - 0.31	2.9	0.87	39	NYSDEC TAGM 4046	0.75	NO	BSL
7440-23-5	Sodium	33.3	J	4,060	J	CL-59-01-WES	194 / 199	83.1 - 57.5	4,060	269	1,125,000	NYSDEC TAGM 4046	172	NO	NUT
7440-28-0	Thallium	0.11	J	1.8	J	CL-59-03-WS3	51 / 199	0.18 - 0.75	1.8	1.2	0.52	NYSDEC TAGM 4046	0.7	YES	ASL
7440-62-2	Vanadium	8.4	J	28.5	J	CL-59-01-F12	199 / 199		28.5	32.7	7.8	NYSDEC TAGM 4046	150	YES	ASL
7440-66-6	Zinc	19.6	J	341	J	SB59-4	199 / 199		341	126	2,300	NYSDEC TAGM 4046	110	NO	BSL

Notes:

- Field duplicates were treated as discrete samples. Laboratory duplicates were not included in the assessment. Range of reporting limits were presented for nondetects only.
- The maximum detected concentration was used for screening.
- Background value is the maximum Seneca background concentration
- EPA Region 9 Preliminary Remediation Goals (PRGs) for residential soil. On-line resources available at <http://www.epa.gov/region09/waste/sfimd/prg/files/prgtable2004.xls>. Last updated October 2004. Region 9 PRGs were derived based on Direct contact exposure (ingestion and dermal contact) and a target Cancer Risk of 1E-6 or a Target Hazard Quotient of 1. EPA Region III Risk Based Concentration (RBC) for residential soil was used as screening value for 2-methylnaphthalene as no Region 9 PRG is available. EPA Region III RBC, available on-line at <http://www.epa.gov/reg3hwmd/risk/human/rbc/rbc1004.XLS>, was calculated based on soil ingestion exposure and a target cancer risk of 1E-6 and a target hazard quotient of 1. The PRGs or RBCs corresponding to a hazard quotient of 1 were adjusted by multiplying 0.1 before they were used as screening values. PRG for xylenes was used as screening value for meta/para xylenes and ortho xylene. PRG for Aroclor 1254 was used as screening value for Aroclor 1260. PRG for gamma-chlordane was used as screening value for alpha-chlordane. PRG for alpha-BHC was used as screening value for delta-BHC. PRG for endosulfan was used as screening value for endosulfan I, endosulfan II, and endosulfan sulfate. PRG for endrin was used as screening value for endrin aldehyde and endrin ketone. Screening values for calcium, magnesium, potassium, and sodium were calculated based on an assumption of 200 mg/day soil ingestion and recommended dietary allowances and adequate intakes for 1-3 yr children (500 mg/day and 80 mg/day for calcium and magnesium) and minimum requirements for 1 yr children (225 mg/day and 1000 mg/day for sodium and potassium) from Marilyn Wright (2001) Dietary Reference Intakes. PRG for total chromium (1:6 ratio Cr VI: Cr III) was used as screening value for chromium. PRG for nickel (soluble salts) was used as screening value for nickel.
- Potential ARAR/TBC values are from NYSDEC Technical and Administrative Guidance Memorandum #4046 (on-line resources available at <http://www.dec.state.ny.us/website/der/tagms/prg4046.html>)
- Rationale codes

Selection Reason:	Above Screening Levels (ASL)
	Chemicals in the Same Group were retained as COPC (CSG)
Deletion Reason:	Essential Nutrient (NUT)
	Below Screening Level (BSL)
	No Screening Value or Toxicity Value (NSV)

APPENDIX E TABLE 1A
 OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN IN SEAD-59 SITE SOIL
 SEAD-59 AND SEAD-71 PHASE II RI
 Seneca Army Depot Activity

Scenario Time frame:	Current/Future
Medium:	Soil
Exposure Medium:	Soil
Exposure Point:	SEAD-59

CAS Number	Chemical	Minimum Detected Concentration ¹ (mg/kg)	Q	Maximum Detected Concentration ¹ (mg/kg)	Q	Location of Maximum Concentration	Detection Frequency ¹	Range of Reporting Limits ¹ (mg/kg)	Concentration Used for Screening ² (mg/kg)	Background Value ³ (mg/kg)	Screening Value ⁴ (mg/kg)	Potential ARAR/TBC Source	ARAR / TBC Value ⁵ (mg/kg)	COPC Flag	Rationale for Contaminant Deletion or Selection ⁶
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Individual Chemicals Evaluated (ICE)

Definitions:

- COPC = Chemical of Potential Concern
- ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
- Q = Qualifier
- J = Estimated Value
- NJ = Presence of the analyte has been "tentatively identified" and the associated numerical value represents its approximate concentration.

**APPENDIX E TABLE 1B
 OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN IN SEAD-59 SITE GROUNDWATER
 SEAD-59 AND SEAD-71 PHASE II RI
 SENECA ARMY DEPOT ACTIVITY**

Scenario Timeframe:	Current/Future
Medium:	Groundwater
Exposure Medium:	Groundwater
Exposure Point:	Aquifer -- Tap Water

CAS Number	Chemical	Minimum Detected Concentration ¹ (ug/L)	Q	Maximum Detected Concentration ¹ (ug/L)	Q	Location of Maximum Concentration	Detection Frequency ¹	Range of Reporting Limits ¹ (ug/L)	Concentration Used for Screening ² (ug/L)	Background Value ³ (ug/L)	Screening Value ⁴ (ug/L)	Potential ARAR /TBC Value (ug/L)	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection ⁴
VOC															
71-55-6	1,1,1-Trichloroethane	0.45	J	0.45	J	MW59-3	1 / 13	0.5 - 10	0.45		320	5	GA	NO	BSL
108-88-3	Toluene	0.27	J	0.27	J	MW59-3	1 / 13	0.5 - 10	0.27		72	5	GA	NO	BSL
SVOC															
84-74-2	Di-n-butylphthalate	2.3	J	2.3	J	MW59-7	1 / 13	9.7 - 11	2.3		360	50	GA	NO	BSL
108-95-2	Phenol	1	J	2	J	MW59-2	2 / 13	9.7 - 10.8	2		1,100	1	GA	NO	BSL
Pesticides															
72-55-9	4,4'-DDE	0.008	J	0.008	J	MW59-1	2 / 10	0.04 - 0.04	0.008		0.20	0.2	GA	NO	BSL
50-29-3	4,4'-DDT	0.042	J	0.042	J	MW59-3	1 / 10	0.04 - 0.04	0.042		0.20	0.2	GA	NO	BSL
Metals															
7429-90-5	Aluminum	26.8	J	3,250		MW59-6	12 / 13	14.7 - 14.7	3,250	2,730	3,600	50	SEC	NO	BSL
7440-36-0	Antimony	5.49	J	8.6	J	MW59-3	4 / 13	0.99 - 10	8.6	8.2	1.5	3	GA	YES	ASL
7440-38-2	Arsenic	2	J	2	J	MW59-1	1 / 13	2 - 22.4	2	1.7	0.045	10	MCL	YES	ASL
7440-39-3	Barium	54.7	J	132	J	MW59-2	13 / 13		132	78.2	260	1,000	GA	NO	BSL
7440-43-9	Cadmium	0.335	J	0.9	J	MW59-3	4 / 13	0.1 - 5	0.9	0.5	1.8	5	GA	NO	BSL
7440-70-2	Calcium	102,000		169,000		MW59-3	13 / 13		169,000	116,000	250,000			NO	NUT
7440-47-3	Chromium	0.53	J	3.6	J	MW59-3	8 / 13	0.5 - 5	3.6	4.7	11	50	GA	NO	BSL
7440-48-4	Cobalt	0.68	J	3.5	J	MW59-1	7 / 13	0.54 - 5	3.5	3.7	73			NO	BSL
7440-50-8	Copper	1.42	J	4.65	J	MW59-6	6 / 13	0.5 - 5	4.65	3.3	150	200	GA	NO	BSL
7439-89-6	Iron	60.9	J	3,940	J	MW59-3	13 / 13		3,940	4,480	1,100	300	GA	YES	ASL
7439-92-1	Lead	1.5	J	4.4	J	MW59-7	6 / 13	0.9 - 5	4.4	2.5	15	15	MCL	NO	BSL
7439-95-4	Magnesium	12,800		29,200		MW59-2	13 / 13		29,200	28,600	40,000			NO	NUT
7439-96-5	Manganese	9.11		780		MW59-1	13 / 13		780	224	88	50	SEC	YES	ASL
7439-97-6	Mercury	0.05	J	0.06	J	MW59-3	2 / 13	0.03 - 0.2	0.06	0.04	1.1	0.7	GA	NO	BSL
7440-02-0	Nickel	0.812	J	7.6	J	MW59-1	10 / 13	0.69 - 5	7.6	7.3	73	100	GA	NO	BSL
7440-09-7	Potassium	817	J	4150	J	MW59-3	13 / 13		4,150	3,830	700,000			NO	NUT
7782-49-2	Selenium	4.2	J	4.2	J	MW59-8	1 / 10	1.7 - 5	4.2	1.5	18	10	GA	NO	BSL
7440-23-5	Sodium	22,000		304,000		MW59-3	13 / 13		304,000	14,600	1,200,000	20,000	GA	NO	NUT
7440-28-0	Thallium	2.8	J	4	J	MW59-2	2 / 13	1.6 - 20	4	1.5	0.24	2	MCL	YES	ASL
7440-62-2	Vanadium	1.1	J	5.26	J	MW59-6	5 / 13	0.61 - 5	5.26	5.2	3.6			YES	ASL
7440-66-6	Zinc	1.5	J	26.2	J	MW59-3	13 / 13		26.2	23.1	1,100	5,000	SEC	NO	BSL

**APPENDIX E TABLE 1B
 OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN IN SEAD-59 SITE GROUNDWATER
 SEAD-59 AND SEAD-71 PHASE II RI
 SENECA ARMY DEPOT ACTIVITY**

Notes:

1. Field duplicates were averaged and regarded as one sample entry. Laboratory duplicates were not included in the assessment. Range of reporting limits were presented for nondetects only.
2. The maximum detected concentration was used for screening.
3. Background values are average concentrations of background sample results.
4. EPA Region 9 Preliminary Remediation Goals (PRGs) for tap water. On-line resources available at <http://www.epa.gov/region09/waste/sfund/prg/files/prgtable2004.xls>. Last updated October 2004. Region 9 PRGs were derived based on ingestion and inhalation exposure and a target Cancer Risk of 1E-6 or a Target Hazard Quotient of 1. The PRGs corresponding to a hazard quotient of 1 was adjusted by multiplying 0.1 before they were used as screening values. MCL for lead was used as screening value for lead as no Region 9 PRG is available. PRG for endrin was used as screening value for endrin ketone. Screening values for calcium, magnesium, potassium, and sodium were calculated based on an assumption of 2L/day water intake and recommended dietary allowances and adequate intakes for 1-3 yr children (500 mg/day and 80 mg/day for calcium and magnesium) and minimum requirements for 2-5 yr children (1400 mg/day for potassium) from Marilyn Wright (2001) Dietary Reference Intakes. For sodium, an upper limit intake of 2,400 mg/day (<http://www.mcalformation.com/dailyval.html>) was used. PRG for chromium (VI) was used as screening value for chromium.
5. Rational codes

Selection Reason:	Above Screening Levels (ASL)
Deletion Reason:	Essential Nutrient (NUT)
	Below Screening Level (BSL)

Definitions:

COPC = Chemical of Potential Concern
 ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
 MCL = Federal Maximum Contaminant Level
 GA = New York State Class GA Groundwater Standard (TOGS 1.1.1, June 1998 with updates)
 SEC = USEPA Secondary Drinking Water Regulation, non-enforceable (EPA 822-B-00-001, Summer 2000)
 Q = Qualifier
 J = Estimated Value

**APPENDIX E TABLE 1C
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN IN SEAD-59 STOCKPILE SOIL
SEAD-59 AND SEAD-71 PHASE II RI
Seneca Army Depot Activity**

Scenario Time frame:	Current/Future
Medium:	Soil
Exposure Medium:	Soil
Exposure Point:	SEAD-59 Stockpile

CAS Number	Chemical	Minimum Detected Concentration ¹ (mg/kg)	Q	Maximum Detected Concentration ¹ (mg/kg)	Q	Location of Maximum Concentration	Detection Frequency ¹	Range of Reporting Limits ¹ (mg/kg)	Concentration Used for Screening ² (mg/kg)	Background Value ³ (mg/kg)	Screening Value ⁴ (mg/kg)	ARAR /TBC Value ⁵ (mg/kg)	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection ⁶
VOC															
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.0015	J	0.0015	J	WS-59-01-016-13	1 / 53	0.005 - 0.006	0.0015		5,600		NYSDEC TAGM 4046	NO	BSL
75-35-4	1,1-Dichloroethene	0.001	J	0.001	J	WS-59-01-011-1	1 / 53	0.005 - 0.006	0.001		12	0.4	NYSDEC TAGM 4046	NO	BSL
67-64-1	Acetone	0.0048	J	0.069	NJ	WS-59-01-012-2	13 / 53	0.005 - 0.025	0.069		400	0.2	NYSDEC TAGM 4046	NO	BSL
	Meta/Para Xylene	0.0022	J	0.0023	J	WS-59-01-007-13	2 / 48	0.0055 - 0.006	0.0023		27		NYSDEC TAGM 4046	NO	BSL
78-93-3	Methyl ethyl ketone	0.0026	J	0.007	J	WS-59-01-012-2	5 / 53	0.005 - 0.012	0.007		2,200			NO	BSL
75-09-2	Methylene chloride	0.0021	J	0.0021	J	FD-59-WS-03/WS-59-01-006-12	1 / 53	0.005 - 0.006	0.0021		9.1	0.1	NYSDEC TAGM 4046	NO	BSL
95-47-6	Ortho Xylene	0.001	J	0.0019	J	WS-59-01-016-10	5 / 48	0.0055 - 0.006	0.0019		27			NO	BSL
127-18-4	Tetrachloroethene	0.0053	J	0.0067	J	WS-59-01-016-20	3 / 53	0.005 - 0.006	0.0067		0.48	1.4	NYSDEC TAGM 4046	NO	BSL
1330-20-7	Total Xylenes	0.003	J	0.003	J	WS-59-01-011-1	1 / 5	0.005 - 0.006	0.003		27			NO	BSL
79-01-6	Trichloroethene	0.0011	J	0.0028	J	FD-59-WS-03/WS-59-01-006-12	4 / 53	0.005 - 0.006	0.0028		0.053	0.7	NYSDEC TAGM 4046	NO	BSL
SVOC															
92-52-4	1,1'-Biphenyl	0.059	J	0.059	J	WS-59-01-012-2	1 / 5	0.37 - 1.9	0.059		300		NYSDEC TAGM 4046	NO	BSL
91-57-6	2-Methylnaphthalene	0.039	J	1.2	J	WS-59-01-007-1	27 / 53	0.37 - 3.8	1.2		31			NO	BSL
83-32-9	Acenaphthene	0.046	J	2.4	J	WS-59-01-016-9	46 / 53	0.37 - 1.9	2.4		370	50	NYSDEC TAGM 4046	NO	BSL
208-96-8	Acenaphthylene	0.097	J	3.5	J	WS-59-01-007-14	52 / 53	0.37 - 0.37	3.5			41	NYSDEC TAGM 4046	NO	NSV
120-12-7	Anthracene	0.11	J	6.6	J	WS-59-01-007-14	53 / 53		6.6		2,200	50	NYSDEC TAGM 4046	NO	BSL
56-55-3	Benzo(a)anthracene	0.086	NJ	14	J	WS-59-01-011-7	53 / 53		14		0.62	0.224	NYSDEC TAGM 4046	YES	ASL
50-32-8	Benzo(a)pyrene	0.085	J	16	J	WS-59-01-011-7	53 / 53		16		0.062	0.061	NYSDEC TAGM 4046	YES	ASL
205-99-2	Benzo(b)fluoranthene	0.11	J	11	J	WS-59-01-011-7	53 / 53		11		0.62	1.1	NYSDEC TAGM 4046	YES	ASL
191-24-2	Benzo(ghi)perylene	0.052	J	8	J	WS-59-01-011-7	53 / 53		8			50	NYSDEC TAGM 4046	NO	NSV
207-08-9	Benzo(k)fluoranthene	0.048	J	13	J	WS-59-01-011-7	53 / 53		13		6.2	1.1	NYSDEC TAGM 4046	YES	ASL
117-81-7	Bis(2-Ethylhexyl)phthal	0.097	J	0.13	NJ	WS-59-01-012-2	3 / 53	0.38 - 3.8	0.13		35	50	NYSDEC TAGM 4046	NO	BSL
86-74-8	Carbazole	0.042	J	1.1	J	WS-59-01-011-1	4 / 5	0.37 - 0.37	1.1		24			NO	BSL
218-01-9	Chrysene	0.087	J	13	J	WS-59-01-007-14	53 / 53		13		62	0.4	NYSDEC TAGM 4046	YES	CSG
53-70-3	Dibenz(a,h)anthracene	0.073	J	2.9	J	WS-59-01-012-3	52 / 53	0.37 - 0.37	2.9		0.062	0.014	NYSDEC TAGM 4046	YES	ASL
132-64-9	Dibenzofuran	0.19	J	1.3	J	WS-59-01-016-9	33 / 53	0.37 - 3.8	1.3		15	6.2	NYSDEC TAGM 4046	NO	BSL
206-44-0	Fluoranthene	0.17	J	29	J	WS-59-01-007-14	53 / 53		29		230	50	NYSDEC TAGM 4046	NO	BSL
86-73-7	Fluorene	0.051	NJ	3.1	J	WS-59-01-016-9	47 / 53	0.37 - 1.9	3.1		270	50	NYSDEC TAGM 4046	NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	0.055	J	8	J	WS-59-01-011-7	53 / 53		8		0.62	3.2	NYSDEC TAGM 4046	YES	ASL
91-20-3	Naphthalene	0.046	J	1.2	J	WS-59-01-007-13	33 / 53	0.37 - 3.8	1.2		5.6	13	NYSDEC TAGM 4046	NO	BSL

**APPENDIX E TABLE 1C
 OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN IN SEAD-59 STOCKPILE SOIL
 SEAD-59 AND SEAD-71 PHASE II RI
 Seneca Army Depot Activity**

Scenario Time frame:	Current/Future
Medium:	Soil
Exposure Medium:	Soil
Exposure Point:	SEAD-59 Stockpile

CAS Number	Chemical	Minimum Detected Concentration ¹ (mg/kg)	Q	Maximum Detected Concentration ¹ (mg/kg)	Q	Location of Maximum Concentration	Detection Frequency ¹	Range of Reporting Limits ¹ (mg/kg)	Concentration Used for Screening ² (mg/kg)	Background Value ³ (mg/kg)	Screening Value ⁴ (mg/kg)	ARAR /TBC Value ⁵ (mg/kg)	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection ⁶
87-86-5	Pentachlorophenol	0.66	J	0.66	J	WS-59-01-014-5	1 / 53	0.93 - 20	0.66		3.0	1	NYSDEC TAGM 4046	NO	BSL
85-01-8	Phenanthrene	0.12	J	17		WS-59-01-007-14	53 / 53		17			50	NYSDEC TAGM 4046	NO	NSV
129-00-0	Pyrene	0.16	J	22		WS-59-01-012-3	53 / 53		22		230	50	NYSDEC TAGM 4046	NO	BSL
Pesticide															
72-54-8	4,4'-DDD	0.006		0.45		WS-59-01-015-14	33 / 53	0.019 - 0.098	0.45		2.4	2.9	NYSDEC TAGM 4046	NO	BSL
72-55-9	4,4'-DDE	0.0024	J	0.23		WS-59-01-006-9	33 / 53	0.018 - 0.098	0.23		1.7	2.1	NYSDEC TAGM 4046	NO	BSL
50-29-3	4,4'-DDT	0.0061	J	0.52		WS-59-01-015-14	37 / 53	0.019 - 0.098	0.52		1.7	2.1	NYSDEC TAGM 4046	NO	BSL
319-84-6	Alpha-BHC	0.0044		0.0044		WS-59-01-011-2	1 / 53	0.0019 - 0.051	0.0044		0.09	0.11	NYSDEC TAGM 4046	NO	BSL
5103-71-9	Alpha-Chlordane	0.0034		0.027	J	WS-59-01-011-8	6 / 53	0.002 - 0.051	0.027		1.6			NO	BSL
319-85-7	Beta-BHC	0.013	NJ	0.013	NJ	WS-59-01-014-5	1 / 53	0.0019 - 0.051	0.013		0.32	0.2	NYSDEC TAGM 4046	NO	BSL
53494-70-5	Endrin ketone	0.015	J	0.015	J	WS-59-01-011-2	1 / 53	0.0037 - 0.098	0.015		1.8			NO	BSL
58-89-9	Gamma-Chlordane	0.0079		0.021	J	WS-59-01-005-5	5 / 53	0.0019 - 0.051	0.021		1.6	0.54	NYSDEC TAGM 4046	NO	BSL
Metals															
7429-90-5	Aluminum	6,830	J	13,400		WS-59-01-005-5	53 / 53		13,400	20,500	7,600	19,300	NYSDEC TAGM 4046	YES	ASL
7440-36-0	Antimony	0.96	J	43.9	J	WS-59-01-015-14	11 / 53	1.6 - 1.8	43.9	6.55	3.1	5.9	NYSDEC TAGM 4046	YES	ASL
7440-38-2	Arsenic	3.6	J	7.3	J	WS-59-01-014-5	53 / 53		7.3	21.5	0.39	8.2	NYSDEC TAGM 4046	YES	ASL
7440-39-3	Barium	53.6		135		WS-59-01-015-14	53 / 53		135	159	540	300	NYSDEC TAGM 4046	NO	BSL
7440-41-7	Beryllium	0.14	J	0.69		WS-59-01-005-4	53 / 53		0.69	1.4	15	1.1	NYSDEC TAGM 4046	NO	BSL
7440-43-9	Cadmium	0.29	J	1.2		WS-59-01-016-5	52 / 53	0.14 - 0.14	1.2	2.9	3.7	2.3	NYSDEC TAGM 4046	NO	BSL
7440-70-2	Calcium	17,500		100,000		WS-59-01-016-20	53 / 53		100,000	293,000	2,500,000	121,000	NYSDEC TAGM 4046	NO	NUT
7440-47-3	Chromium	11.4	J	35		WS-59-01-016-18	53 / 53		35	32.7	210	29.6	NYSDEC TAGM 4046	NO	BSL
7440-48-4	Cobalt	6.1	J	13.9		WS-59-01-006-9	53 / 53		13.9	29.1	900	30	NYSDEC TAGM 4046	NO	BSL
7440-50-8	Copper	18.4	J	51.8	J	WS-59-01-016-18	53 / 53		51.8	62.8	310	33	NYSDEC TAGM 4046	NO	BSL
7439-89-6	Iron	14,900		26,500		WS-59-01-008-2	53 / 53		26,500	38,600	2,300	36,500	NYSDEC TAGM 4046	YES	ASL
7439-92-1	Lead	15.4	J	1,440	J	WS-59-01-016-10	53 / 53		1,440	266	400	24.8	NYSDEC TAGM 4046	YES	ASL
7439-95-4	Magnesium	4,890		26,600	J	WS-59-01-008-3	53 / 53		26,600	29,100	400,000	21,500	NYSDEC TAGM 4046	NO	NUT
7439-96-5	Manganese	321	J	1,220		WS-59-01-016-5	53 / 53		1,220	2,380	180	1,060	NYSDEC TAGM 4046	YES	ASL
7439-97-6	Mercury	0.04		0.52	J	WS-59-04-010-8	53 / 53		0.52	0.13	2.3	0.1	NYSDEC TAGM 4046	NO	BSL
7440-02-0	Nickel	19.1	J	56.6		WS-59-01-007-12	53 / 53		56.6	62.3	160	49	NYSDEC TAGM 4046	NO	BSL
7440-09-7	Potassium	781		1,580	J	WS-59-01-011-1	53 / 53		1,580	3,160	5,000,000	2,380	NYSDEC TAGM 4046	NO	NUT
7782-49-2	Selenium	0.69	J	0.72	J	WS-59-01-013-2	2 / 53	0.135 - 0.6	0.72	1.7	39	2	NYSDEC TAGM 4046	NO	BSL
7440-22-4	Silver	0.56		4.7		WS-59-01-016-18	9 / 53	0.055 - 0.305	4.7	0.87	39	0.75	NYSDEC TAGM 4046	NO	BSL
7440-23-5	Sodium	68.5		525		WS-59-01-016-4	53 / 53		525	269	1,125,000	172	NYSDEC TAGM 4046	NO	NUT
7440-28-0	Thallium	0.56	J	0.99	J	WS-59-01-015-16	27 / 53	0.095 - 0.295	0.99	1.2	0.52	0.7	NYSDEC TAGM 4046	YES	ASL

APPENDIX E TABLE 1C
 OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN IN SEAD-59 STOCKPILE SOIL
 SEAD-59 AND SEAD-71 PHASE II RI
 Seneca Army Depot Activity

Scenario Time frame:	Current/Future
Medium:	Soil
Exposure Medium:	Soil
Exposure Point:	SEAD-59 Stockpile

CAS Number	Chemical	Minimum Detected Concentration ¹ (mg/kg)	Q	Maximum Detected Concentration ¹ (mg/kg)	Q	Location of Maximum Concentration	Detection Frequency ¹	Range of Reporting Limits ¹ (mg/kg)	Concentration Used for Screening ² (mg/kg)	Background Value ³ (mg/kg)	Screening Value ⁴ (mg/kg)	ARAR /TBC Value ⁵ (mg/kg)	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection ⁶
7440-62-2	Vanadium	13.4		35.4		WS-59-01-007-10	53 / 53		35.4	32.7	7.8	150	NYSDEC TAGM 4046	YES	ASL
7440-66-6	Zinc	57	J	185	J	WS-59-01-006-9	53 / 53		185	126	2,300	110	NYSDEC TAGM 4046	NO	BSL

Notes:

- Field duplicates were averaged and regarded as one sample entry. Laboratory duplicates were not included in the assessment. Range of reporting limits were presented for nondetects only.
- The maximum detected concentration was used for screening.
- Background value is the maximum Seneca background concentration.
- EPA Region 9 Preliminary Remediation Goals (PRGs) for residential soil. On-line resources available at <http://www.epa.gov/region09/waste/sfund/prg/files/prgtable2004.xls>. Last updated October 2004. Region 9 PRGs were derived based on Direct contact exposure (ingestion and dermal contact) and a target Cancer Risk of 1E-6 or a Target Hazard Quotient of 1. EPA Region III Risk Based Concentration (RBC) for residential soil was used as screening value for 2-methylnaphthalene as no Region 9 PRG is available. EPA Region III RBC, available on-line at <http://www.epa.gov/reg3hwmd/risk/human/rbc/rbc1004.XLS>, was calculated based on soil ingestion exposure and a target cancer risk of 1E-6 and a target hazard quotient of 1. The PRGs or RBCs corresponding to a hazard quotient of 1 were adjusted by multiplying 0.1 before they were used as screening values. PRG for gamma-chlordane was used as screening value for alpha-chlordane. PRG for endrin was used as screening value for endrin ketone. Screening values for calcium, magnesium, potassium, and sodium were calculated based on 200 mg/day soil ingestion and recommended dietary allowances and adequate intakes for 1-3 yr children (500 mg/day and 80 mg/day for calcium and magnesium) and minimum requirements for 1 yr children (225 mg/day and 1000 mg/day for sodium and potassium) from Marijyn Wright (2001) Dietary Reference Intakes. PRG for total chromium (1:6 ratio Cr VI: Cr III) was used as screening value for chromium. PRG for nickel (soluble salts) was used as screening value for nickel.
- Potential ARAR/TBC values are from NYSDEC Technical and Administrative Guidance Memorandum #4046 (on-line resources available at <http://www.dec.state.ny.us/website/der/tagms/prtg4046.html>)
- Rationale codes

Selection Reason:	Above Screening Levels (ASL)
	Chemicals in the Same Group were retained as COPC (CSG)
Deletion Reason:	Essential Nutrient (NUT)
	Below Screening Level (BSL)
	No Screening Value or Toxicity Value (NSV)

Definitions:

- COPC = Chemical of Potential Concern
 ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
 Q = Qualifier
 J = Estimated Value
 NJ = Presence of the analyte has been "tentatively identified" and the associated numerical value represents its approximate concentration.

APPENDIX E TABLE 1D
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN IN SEAD-71 SOIL (FENCED AREA EXCLUDED)
SEAD-59 AND SEAD-71 PHASE II RI
Seneca Army Depot Activity

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Soil
Exposure Point:	SEAD-71

CAS Number	Chemical	Minimum Detected Concentration ¹ (mg/kg)	Q	Maximum Detected Concentration ¹ (mg/kg)	Q	Location of Maximum Concentration	Detection Frequency ¹	Range of Reporting Limits ¹ (mg/kg)	Concentration Used for Screening ² (mg/kg)	Background Value ³ (mg/kg)	Screening Value ⁴ (mg/kg)	ARAR/TBC Value ⁵ (mg/kg)	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection ⁶
VOC															
71-55-6	1,1,1-Trichloroethane	0.002	NJ	0.023		TP71-1	6 / 61	0.005 - 0.11	0.023		1,200	0.8	NYSDEC TAGM 4046	NO	BSL
67-64-1	Acetone	0.004	NJ	0.074		SS71-14	9 / 61	0.005 - 0.11	0.074		1,400	0.2	NYSDEC TAGM 4046	NO	BSL
71-43-2	Benzene	0.001	J	0.002	J	SS71-1	2 / 61	0.005 - 0.11	0.002		0.64	0.06	NYSDEC TAGM 4046	NO	BSL
75-15-0	Carbon disulfide	0.002	J	0.005	J	CL-71-B-WN1	3 / 61	0.005 - 0.11	0.005		36	2.7	NYSDEC TAGM 4046	NO	BSL
110-82-7	Cyclohexane	0.003	J	0.004	J	WS-71-A-009-9	2 / 23	0.005 - 0.006	0.004		14			NO	BSL
108-87-2	Methyl cyclohexane	0.003	J	0.006		WS-71-A-009-9	3 / 23	0.005 - 0.006	0.006		260			NO	BSL
75-09-2	Methylene chloride	0.001	J	0.002	J	SS71-1	8 / 61	0.005 - 0.11	0.002		9.1	0.1	NYSDEC TAGM 4046	NO	BSL
127-18-4	Tetrachloroethene	0.001	J	0.003	J	TP71-1	3 / 61	0.005 - 0.11	0.003		0.48	1.4	NYSDEC TAGM 4046	NO	BSL
108-88-3	Toluene	0.001	J	0.004	J	SS71-1	4 / 61	0.005 - 0.11	0.004		520	1.5	NYSDEC TAGM 4046	NO	BSL
	Total BTEX	3.05		11.6		TP71-3-1	4 / 4		11.6					NO	ICE
1330-20-7	Total Xylenes	0.002	J	0.096	J	TP71-3-2	4 / 37	0.005 - 0.015	0.096		27	1.2	NYSDEC TAGM 4046	NO	BSL
75-69-4	Trichlorofluoromethane	0.001	J	0.001	J	WS-71-B-009-6	1 / 23	0.005 - 0.006	0.001		39			NO	BSL
SVOC															
121-14-2	2,4-Dinitrotoluene	0.88	J	0.88	J	WS-71-D-009-13	1 / 62	0.066 - 19	0.88		12			NO	BSL
91-57-6	2-Methylnaphthalene	0.0086	J	31	J	TP71-3-2	12 / 62	0.078 - 19	31		31	36.4	NYSDEC TAGM 4046	YES	ASL
100-01-6	4-Nitroaniline	0.075	J	0.075	J	WS-71-B-009-6	1 / 40	0.16 - 45	0.075		23			NO	BSL
83-32-9	Acenaphthene	0.0055	J	13	J	TP71-3-2	23 / 62	0.078 - 5.5	13		370	50	NYSDEC TAGM 4046	NO	BSL
208-96-8	Acenaphthylene	0.02	J	1.8		CL-71-C-WN1	20 / 62	0.066 - 19	1.8			41	NYSDEC TAGM 4046	NO	NSV
120-12-7	Anthracene	0.012	J	11	J	TP71-1	35 / 62	0.078 - 5.5	11		2,200	50	NYSDEC TAGM 4046	NO	BSL
56-55-3	Benzo(a)anthracene	0.0039	J	37		TP71-1	46 / 62	0.078 - 1.9	37		0.62	0.224	NYSDEC TAGM 4046	YES	ASL
50-32-8	Benzo(a)pyrene	0.0039	J	22		TP71-1	46 / 62	0.066 - 1.9	22		0.062	0.061	NYSDEC TAGM 4046	YES	ASL
205-99-2	Benzo(b)fluoranthene	0.0044	J	26		TP71-1	47 / 62	0.066 - 1.9	26		0.62	1.1	NYSDEC TAGM 4046	YES	ASL
191-24-2	Benzo(ghi)perylene	0.012	J	10	J	TP71-1	40 / 62	0.066 - 1.9	10			50	NYSDEC TAGM 4046	NO	NSV
207-08-9	Benzo(k)fluoranthene	0.0046	J	15	J	TP71-1	36 / 62	0.066 - 1.9	15		6.2	1.1	NYSDEC TAGM 4046	YES	ASL
117-81-7	Bis(2-Ethylhexyl)phthalate	0.0076	J	0.14	J	WS-71-D-009-13	9 / 62	0.066 - 19	0.14		35	50	NYSDEC TAGM 4046	NO	BSL
86-74-8	Carbazole	0.0042	J	9.5	J	TP71-1	22 / 40	0.078 - 1.1	9.5		24			NO	BSL
218-01-9	Chrysene	0.0046	J	36		TP71-1	49 / 62	0.078 - 1.9	36		62	0.4	NYSDEC TAGM 4046	YES	CSG
84-74-2	Di-n-butylphthalate	0.0064	J	0.07	J	CL-71-C-WE2	3 / 62	0.066 - 19	0.07		610	8.1	NYSDEC TAGM 4046	NO	BSL
53-70-3	Dibenz(a,h)anthracene	0.0044	J	9.8	J	TP71-1	32 / 62	0.066 - 5.5	9.8		0.062	0.014	NYSDEC TAGM 4046	YES	ASL
132-64-9	Dibenzofuran	0.013	J	11	J	TP71-3-2	18 / 62	0.078 - 19	11		15	6.2	NYSDEC TAGM 4046	NO	BSL
206-44-0	Fluoranthene	0.0069	J	88		TP71-1	50 / 62	0.078 - 0.4	88		230	50	NYSDEC TAGM 4046	NO	BSL
86-73-7	Fluorene	0.0047	J	4.1	J	TP71-3-2	21 / 62	0.078 - 5.5	4.1		270	50	NYSDEC TAGM 4046	NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	0.012	J	12	J	TP71-1	40 / 62	0.066 - 1.9	12		0.62	3.2	NYSDEC TAGM 4046	YES	ASL

**APPENDIX E TABLE 1D
 OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN IN SEAD-71 SOIL (FENCED AREA EXCLUDED)
 SEAD-59 AND SEAD-71 PHASE II RI
 Seneca Army Depot Activity**

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Soil
Exposure Point:	SEAD-71

CAS Number	Chemical	Minimum Detected Concentration ¹ (mg/kg)	Q	Maximum Detected Concentration ¹ (mg/kg)	Q	Location of Maximum Concentration	Detection Frequency ¹	Range of Reporting Limits ¹ (mg/kg)	Concentration Used for Screening ² (mg/kg)	Background Value ³ (mg/kg)	Screening Value ⁴ (mg/kg)	ARAR/TBC Value ⁵ (mg/kg)	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection ⁶
91-20-3	Naphthalene	0.01	J	17	J	TP71-3-2	13/62	0.078 - 19	17		5.6	13	NYSDEC TAGM 4046	YES	ASL
85-01-8	Phenanthrene	0.024	J	66		TP71-1	45/62	0.078 - 1.9	66			50	NYSDEC TAGM 4046	NO	NSV
108-95-2	Phenol	0.0045	J	0.0045	J	TP71-3-1	1/62	0.078 - 19	0.0045		1,800	0.03	NYSDEC TAGM 4046	NO	BSL
129-00-0	Pyrene	0.006	J	63		TP71-1	48/62	0.078 - 1.9	63		230	50	NYSDEC TAGM 4046	NO	BSL
Pesticide															
72-54-8	4,4'-DDD	0.0028	J	0.017		CL-71-B-WE2	9/62	0.0035 - 0.04	0.017		2.4	2.9	NYSDEC TAGM 4046	NO	BSL
72-55-9	4,4'-DDE	0.0031	J	0.19		CL-71-B-WS1	22/62	0.0034 - 0.038	0.19		1.7	2.1	NYSDEC TAGM 4046	NO	BSL
50-29-3	4,4'-DDT	0.0051	J	0.12		CL-71-E2-WW1	28/62	0.0034 - 0.038	0.12		1.7	2.1	NYSDEC TAGM 4046	NO	BSL
319-84-6	Alpha-BHC	0.0019	J	0.018		TP71-6-1	5/62	0.0018 - 0.021	0.018		0.09	0.11	NYSDEC TAGM 4046	NO	BSL
5103-71-9	Alpha-Chlordane	0.074	J	0.074	J	TP71-1	1/62	0.0018 - 0.021	0.074		1.6			NO	BSL
319-85-7	Beta-BHC	0.002	J	0.0027		TP71-6-1	2/62	0.0018 - 0.021	0.0027		0.32	0.2	NYSDEC TAGM 4046	NO	BSL
319-86-8	Delta-BHC	0.0018	J	0.0018	J	TP71-6-1	1/62	0.0018 - 0.021	0.0018		0.09	0.3	NYSDEC TAGM 4046	NO	BSL
60-57-1	Dieldrin	0.003	J	0.0035	J	TP71-1	3/62	0.0034 - 0.04	0.0035		0.03	0.044	NYSDEC TAGM 4046	NO	BSL
959-98-8	Endosulfan I	0.0028	J	0.2	J	TP71-1	4/62	0.0018 - 0.021	0.2		37	0.9	NYSDEC TAGM 4046	NO	BSL
33213-65-9	Endosulfan II	0.0025	J	0.026	J	TP71-1	2/62	0.0034 - 0.04	0.026		37	0.9	NYSDEC TAGM 4046	NO	BSL
1031-07-8	Endosulfan sulfate	0.0027	J	0.0046		SS71-8	4/62	0.0034 - 0.04	0.0046		37	1	NYSDEC TAGM 4046	NO	BSL
72-20-8	Endrin	0.0024	J	0.029	J	TP71-1	5/62	0.0034 - 0.04	0.029		1.8	0.1	NYSDEC TAGM 4046	NO	BSL
7421-93-4	Endrin aldehyde	0.003	J	0.0091		SS71-10	9/62	0.0034 - 0.04	0.0091		1.8			NO	BSL
53494-70-5	Endrin ketone	0.0022	J	0.017		SS71-10	7/62	0.0034 - 0.04	0.017		1.8			NO	BSL
58-89-9	Gamma-BHC/Lindane	0.004		0.004		TP71-6-1	1/62	0.0018 - 0.021	0.004		0.44	0.06	NYSDEC TAGM 4046	NO	BSL
5103-74-2	Gamma-Chlordane	0.0011	J	0.0012	J	SS71-1	2/62	0.0018 - 0.021	0.0012		1.6	0.54	NYSDEC TAGM 4046	NO	BSL
76-44-8	Heptachlor	0.0012	J	0.0012	J	TP71-1	1/62	0.0018 - 0.021	0.0012		0.11	0.1	NYSDEC TAGM 4046	NO	BSL
1024-57-3	Heptachlor epoxide	0.0015	J	0.0064		SS71-2	5/62	0.0018 - 0.021	0.0064		0.053	0.02	NYSDEC TAGM 4046	NO	BSL
72-43-5	Methoxychlor	0.019	J	0.062		SS71-8	3/62	0.018 - 0.21	0.062		31			NO	BSL
PCB															
11096-82-5	Aroclor-1260	0.08		0.2	J	CL-71-B-WE2	3/62	0.035 - 0.37	0.2		0.22	10	NYSDEC TAGM 4046	NO	BSL
Metals															
7429-90-5	Aluminum	6,120	J	15,900		SS71-9	62/62		15,900	20,500	7,600	19,300	NYSDEC TAGM 4046	YES	ASL
7440-36-0	Antimony	0.19	J	11.5	J	CL-71-B-WE2	29/62	0.23 - 3.6	11.5	6.55	3.1	5.9	NYSDEC TAGM 4046	YES	ASL
7440-38-2	Arsenic	3.1		14.6		SS71-9	62/62		14.6	21.5	0.39	8.2	NYSDEC TAGM 4046	YES	ASL
7440-39-3	Barium	47	J	136	J	CL-71-E1-WN1	62/62		136	159	540	300	NYSDEC TAGM 4046	NO	BSL
7440-41-7	Beryllium	0.11		0.85		CL-71-E1-WN1	62/62		0.85	1.4	15	1.1	NYSDEC TAGM 4046	NO	BSL
7440-43-9	Cadmium	0.17	J	0.71		CL-71-E3-WS1	40/62	0.07 - 0.3	0.71	2.9	3.7	2.3	NYSDEC TAGM 4046	NO	BSL
7440-70-2	Calcium	6,040	J	295,000		SS71-14	62/62		295,000	293,000	2,500,000	121,000	NYSDEC TAGM 4046	NO	NUT

**APPENDIX E TABLE 1D
 OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN IN SEAD-71 SOIL (FENCED AREA EXCLUDED)
 SEAD-59 AND SEAD-71 PHASE II RI
 Seneca Army Depot Activity**

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Soil
Exposure Point:	SEAD-71

CAS Number	Chemical	Minimum Detected Concentration ¹ (mg/kg)	Q	Maximum Detected Concentration ¹ (mg/kg)	Q	Location of Maximum Concentration	Detection Frequency ¹	Range of Reporting Limits ¹ (mg/kg)	Concentration Used for Screening ² (mg/kg)	Background Value ³ (mg/kg)	Screening Value ⁴ (mg/kg)	ARAR/TBC Value ⁵ (mg/kg)	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection ⁶
7440-47-3	Chromium	10	J	37.1		CL-71-C-WN1	62 / 62		37.1	32.7	210	29.6	NYSDEC TAGM 4046	NO	BSL
7440-48-4	Cobalt	6.1	J	13.9		CL-71-E3-WS1	62 / 62		13.9	29.1	900	30	NYSDEC TAGM 4046	NO	BSL
7440-50-8	Copper	15.2		102		WS-71-E1-009-3	62 / 62		102	62.8	310	33	NYSDEC TAGM 4046	NO	BSL
7439-89-6	Iron	13,200		38,000		SS71-9	62 / 62		38,000	38,600	2,300	36,500	NYSDEC TAGM 4046	YES	ASL
7439-92-1	Lead	7.3		1,010		WS-71-D-009-13	62 / 62		1,010	266	400	24.8	NYSDEC TAGM 4046	YES	ASL
7439-95-4	Magnesium	3,800		59,300		SS71-14	62 / 62		59,300	29,100	400,000	21,500	NYSDEC TAGM 4046	NO	NUT
7439-96-5	Manganese	296		1,330		CL-71-E3-WS1	62 / 62		1,330	2,380	180	1,060	NYSDEC TAGM 4046	YES	ASL
7439-97-6	Mercury	0.02	J	1	J	CL-71-B-WS1	52 / 62	0.05 - 0.07	1	0.13	2.3	0.1	NYSDEC TAGM 4046	NO	BSL
7440-02-0	Nickel	18	J	110		SS71-10	62 / 62		110	62.3	160	49	NYSDEC TAGM 4046	NO	BSL
7440-09-7	Potassium	810	J	2,940		TP71-4-2	62 / 62		2,940	3,160	5,000,000	2,380	NYSDEC TAGM 4046	NO	NUT
7782-49-2	Selenium	0.43	J	1.8	J	SS71-10	8 / 62	0.37 - 1.1	1.8	1.7	39	2	NYSDEC TAGM 4046	NO	BSL
7440-22-4	Silver	0.32	J	1.8		CL-71-E1-WN1	22 / 62	0.07 - 0.67	1.8	0.87	39	0.75	NYSDEC TAGM 4046	NO	BSL
7440-23-5	Sodium	33.2	J	636		SS71-10	59 / 62	83.3 - 108	636	269	1,125,000	172	NYSDEC TAGM 4046	NO	NUT
7440-28-0	Thallium	0.57	J	2.3		SS71-9	18 / 62	0.19 - 1.7	2.3	1.2	0.52	0.7	NYSDEC TAGM 4046	YES	ASL
7440-62-2	Vanadium	11.3	J	24.9		TP71-4-2	62 / 62		24.9	32.7	7.8	150	NYSDEC TAGM 4046	YES	ASL
7440-66-6	Zinc	45.3		1,740	J	SS71-10	61 / 62	352 - 352	1,740	126	2,300	110	NYSDEC TAGM 4046	NO	BSL

Notes:

- Field duplicates were averaged and regarded as one sample entry. Laboratory duplicates were not included in the assessment. Range of reporting limits were presented for nondetects only.
- The maximum detected concentration was used for screening.
- Background value is the maximum Seneca background concentration.
- EPA Region 9 Preliminary Remediation Goals (PRGs) for residential soil. On-line resources available at <http://www.epa.gov/region09/waste/sfund/prg/files/prgtable2004.xls>. Last updated October 2004. Region 9 PRGs were derived based on Direct contact exposure (ingestion and dermal contact) and a target Cancer Risk of 1E-6 or a Target Hazard Quotient of 1. EPA Region III Risk Based Concentration (RBC) for residential soil was used as screening value for 2-methylnaphthalene as no Region 9 PRG is available. EPA Region III RBC, available on-line at <http://www.epa.gov/reg3hwmd/risk/human/rbc/rbc1004.XLS>, was calculated based on soil ingestion exposure and a target cancer risk of 1E-6 and a target hazard quotient of 1. The PRGs or RBCs corresponding to a hazard quotient of 1 were adjusted by multiplying 0.1 before they were used as screening values. PRG for Aroclor 1254 was used as screening value for Aroclor 1260. PRG for gamma-chlordane was used as screening value for alpha-chlordane. PRG for alpha-BHC was used as screening value for delta-BHC. PRG for endosulfan was used as screening value for endosulfan I, endosulfan II, and endosulfan sulfate. PRG for endrin was used as screening value for endrin aldehyde and endrin ketone. Screening values for calcium, magnesium, potassium, and sodium were calculated based on 200 mg/day soil ingestion and recommended dietary allowances and adequate intakes for 1-3 yr children (500 mg/day and 80 mg/day for calcium and magnesium) and minimum requirements for 1 yr children (225 mg/day and 1000 mg/day for sodium and potassium) from Marilyn Wright (2001) Dietary Reference Intakes. PRG for total chromium (1:6 ratio Cr VI: Cr III) was used as screening value for chromium. PRG for nickel (soluble salts) was used as screening value for nickel.

APPENDIX E TABLE 1D
 OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN IN SEAD-71 SOIL (FENCED AREA EXCLUDED)
 SEAD-59 AND SEAD-71 PHASE II RI
 Seneca Army Depot Activity

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Soil
Exposure Point:	SEAD-71

CAS Number	Chemical	Minimum Detected Concentration ¹ (mg/kg)	Q	Maximum Detected Concentration ¹ (mg/kg)	Q	Location of Maximum Concentration	Detection Frequency ¹	Range of Reporting Limits ¹ (mg/kg)	Concentration Used for Screening ² (mg/kg)	Background Value ³ (mg/kg)	Screening Value ⁴ (mg/kg)	ARAR/TBC Value ⁵ (mg/kg)	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection ⁶
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5. Potential ARAR/TBC values are from NYSDEC Technical and Administrative Guidance Memorandum #4046 (on-line resources available at <http://www.dec.state.ny.us/website/dcr/tagms/prtg4046.html>)

6. Rationale codes
 Selection Reason: Above Screening Levels (ASL)
 Deletion Reason: Essential Nutrient (NUT)
 Below Screening Level (BSL)
 Individual Chemicals Evaluated (ICE)
 No Screening Value or Toxicity Value (NSV)

Definitions:
 COPC = Chemical of Potential Concern
 ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
 Q = Qualifier
 J = Estimated Value
 N.I = Presence of the analyte has been "tentatively identified" and the associated numerical value represents its approximate concentration.

**APPENDIX E TABLE 1E
 OCCURRENCE, DISTRIBUTION AND SELECTION OF POTENTIAL CONCERN IN SEAD-71 GROUNDWATER (FENCED AREA EXCLUDED)
 SEAD-59 AND SEAD-71 PHASE II RI
 SENECA ARMY DEPOT ACTIVITY**

Scenario Timeframe:	Current/Future
Medium:	Groundwater
Exposure Medium:	Groundwater
Exposure Point:	Aquifer -- Tap Water

CAS #	Chemical	Minimum Detected Concentration (ug/L)	Q	Maximum Detected Concentration (ug/L)	Q	Location of Maximum Concentration	Detection Frequency	Range of Reporting Limits (ug/L)	Concentration Used for Screening (ug/L)	Background Value (ug/L)	Screening Value (ug/L)	Potential ARAR /TBC Value (ug/L)	ARAR/ TBC Source	COPC Flag	Rationale for COPC Deletion or Selection
VOC															
71-55-6	1,1,1-Trichloroethane	2.5		3.1		MW71-4	2 / 8	0.5 - 10	3.1		320	5	GA	NO	BSL
SVOC															
100-01-6	4-Nitroaniline	8.7	J	8.7	J	MW71-2	1 / 8	9.6 - 32	8.7		3.2	5	GA	YES	ASL
117-81-7	Bis(2-Ethylhexyl)phthalate	1.6	J	1.6	J	MW71-3	1 / 8	9.6 - 16	1.6		4.8	5	GA	NO	BSL
Pesticides															
72-55-9	4,4'-DDE	0.006	J	0.013	J	MW71-4	2 / 6	0.0388 - 0.0408	0.013		0.20	0.2	GA	NO	BSL
50-29-3	4,4'-DDT	0.030	J	0.0437	J	MW71-4	3 / 6	0.0388 - 0.04	0.0437		0.20	0.2	GA	NO	BSL
53494-70-5	Endrin ketone	0.008	J	0.008	J	MW71-3	1 / 6	0.0375 - 0.0408	0.008		1.1	5	GA	NO	BSL
Metals															
7429-90-5	Aluminum	51.2	J	19,700		MW71-1	5 / 8	14.7 - 100	19,700	2,730	3,600	50	SEC	YES	ASL
7440-36-0	Antimony	6.28	J	6.52	J	MW71-1	2 / 8	1 - 10	6.52	8.2	1.5	3	GA	YES	ASL
7440-38-2	Arsenic	2.7	J	2.7	J	MW71-1	1 / 8	2 - 22.4	2.7	1.7	0.045	10	MCL	YES	ASL
7440-39-3	Barium	37.1		164	J	MW71-1	8 / 8		164	78.2	260	1,000	GA	NO	BSL
7440-41-7	Beryllium	0.819		0.88	J	MW71-1	2 / 8	0.1 - 5	0.88	0.21	7.3	4	MCL	NO	BSL
7440-43-9	Cadmium	0.33	J	0.33	J	MW71-1	1 / 8	0.2 - 5	0.33	0.5	1.8	5	GA	NO	BSL
7440-70-2	Calcium	97,800		218,000		MW71-1	8 / 8		218,000	116,000	250,000			NO	NUT
7440-47-3	Chromium	0.59	J	33.1		MW71-1	4 / 8	0.503 - 5	33.1	4.7	11	50	GA	YES	ASL
7440-48-4	Cobalt	0.631	J	22.1	J	MW71-1	4 / 8	0.541 - 5	22.1	3.7	73			NO	BSL
7440-50-8	Copper	0.75	J	16.1	J	MW71-1	4 / 8	1.39 - 5	16.1	3.3	150	200	GA	NO	BSL
7439-89-6	Iron	22.9	J	35,100		MW71-1	8 / 8		35,100	4,480	1,100	300	GA	YES	ASL
7439-92-1	Lead	2.1	J	17.2		MW71-1	3 / 8	0.89 - 5	17.2	2.5	15	15	MCL	YES	ASL
7439-95-4	Magnesium	12,500		32,400		MW71-1	8 / 8		32,400	28,600	40,000			NO	NUT
7439-96-5	Manganese	8.1		2,680		MW71-2	7 / 8	0.296 - 0.296	2,680	224	88	50	SEC	YES	ASL
7439-97-6	Mercury	0.05	J	0.069	J	MW71-3	3 / 8	0.047 - 0.2	0.069	0.04	1.1	0.7	GA	NO	BSL
7440-02-0	Nickel	0.74	J	49.4		MW71-1	6 / 8	0.69 - 0.69	49.4	7.3	73	100	GA	NO	BSL
9777440	Potassium	765	J	4,910	J	MW71-3	8 / 8		4,910	3,830	700,000			NO	NUT
7440-23-5	Sodium	4,130	J	62,200		MW71-3	8 / 8		62,200	14,600	1,200,000	20,000	GA	NO	NUT
7440-28-0	Thallium	2.5	J	2.5	J	MW71-3	1 / 8	1.6 - 20	2.5	1.5	0.24	2	MCL	YES	ASL
7440-62-2	Vanadium	0.9	J	25.7	J	MW71-1	3 / 8	0.606 - 5	25.7	5.2	3.6			YES	ASL
7440-66-6	Zinc	1.6	J	97.3		MW71-1	8 / 8		97.3	23.1	1,100	5,000	SEC	NO	BSL

**APPENDIX E TABLE 1E
 OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN IN SEAD-71 GROUNDWATER (FENCED AREA EXCLUDED)
 SEAD-59 AND SEAD-71 PHASE II RI
 SENECA ARMY DEPOT ACTIVITY**

Scenario Timeframe:	Current/Future
Medium:	Groundwater
Exposure Medium:	Groundwater
Exposure Point:	Aquifer -- Tap Water

CAS #	Chemical	Minimum Detected Concentration (ug/L)	Maximum Detected Concentration (ug/L)	Location of Maximum Concentration	Detection Frequency	Range of Reporting Limits (ug/L)	Concentration Used for Screening ² (ug/L)	Background Value ³ (ug/L)	Screening Value ⁴ (ug/L)	Potential ARAR/TBC Value (ug/L)	ARAR/TBC Source	COPC Flag	Rationale for COPC Deletion or Selection ⁵
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Notes:

- Field duplicates were averaged and regarded as one sample entry. Laboratory duplicates were not included in the assessment. Range of reporting limits were presented for nondetects only.
- The maximum detected concentration was used for screening.
- Background values are average concentrations of background sample results.
- EPA Region 9 Preliminary Remediation Goals (PRGs) for tap water. On-line resources available at <http://www.epa.gov/region09/waste/sfund/prg/files/prgtable2004.xls>. Last updated October 2004. Region 9 PRGs were derived based on ingestion and inhalation exposure and a target Cancer Risk of 1E-6 or a Target Hazard Quotient of 1. The PRGs corresponding to a hazard quotient of 1 was adjusted by multiplying 0.1 before they were used as screening values. MCL for lead was used as screening value for lead as no Region 9 PRG is available. PRG for endrin was used as screening value for endrin ketone. Screening values for calcium, magnesium, potassium, and sodium were calculated based on an assumption of 2L/day water intake and recommended dietary allowances and adequate intakes for 1-3 yr children (500 mg/day and 80 mg/day for calcium and magnesium) and minimum requirements for 2-5 yr children (1400 mg/day for potassium) from Marilyn Wright (2001) Dietary Reference Intakes. For sodium, an upper limit intake of 2,400 mg/day (<http://www.mealformation.com/dailyval.html>) was used. PRG for chromium (VI) was used as screening value for chromium.

5. Rationale codes
- | | |
|-------------------|------------------------------|
| Selection Reason: | Above Screening Levels (ASL) |
| Deletion Reason: | Essential Nutrient (NUT) |
| | Below Screening Level (BSL) |

Definitions:

COPC = Chemical of Potential Concern
 ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
 MCL = Federal Maximum Contaminant Level
 GA = New York State Class GA Groundwater Standard (TOGS 1.1.1, June 1998 with updates)
 SEC = USEPA Secondary Drinking Water Regulation, non-enforceable (EPA 822-B-00-001, Summer 2000)
 Q = Qualifier
 J = Estimated Value

APPENDIX E TABLE 2A
 SOIL EXPOSURE POINT CONCENTRATION SUMMARY - SURFACE SOIL FOR SEAD-59
 SEAD-59 AND SEAD-71 PHASE II RI
 SENECA ARMY DEPOT ACTIVITY

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Soil
Exposure Point:	SEAD-59

Chemical of Potential Concern	Units	Arithmetic Mean (1)	95% UCL of Normal Data (1)	Maximum Detected Concentration (1)	Q	EPC Units	Reasonable Maximum Exposure (2)			Central Tendency (2)		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Surface Soil												
Benzo(a)anthracene	mg/kg	0.8	1.0	8.9	J	mg/kg	1.4	97.5 Chebyshev	Non-parametric, MH	1.4	97.5 Chebyshev	Non-parametric, MH
Benzo(a)pyrene	mg/kg	0.9	1.0	8.1	J	mg/kg	1.4	97.5 Chebyshev	Non-parametric, MH	1.4	97.5 Chebyshev	Non-parametric, MH
Benzo(b)fluoranthene	mg/kg	0.8	0.9	6.8	J	mg/kg	1.3	97.5 Chebyshev	Non-parametric, MH	1.3	97.5 Chebyshev	Non-parametric, MH
Benzo(k)fluoranthene	mg/kg	0.7	0.8	7.4	J	mg/kg	1.1	97.5 Chebyshev	Non-parametric, MH	1.1	97.5 Chebyshev	Non-parametric, MH
Chrysene	mg/kg	0.8	1.0	8.9	J	mg/kg	1.4	97.5 Chebyshev	Non-parametric, MH	1.4	97.5 Chebyshev	Non-parametric, MH
Dibenz(a,h)anthracene	mg/kg	0.3	0.3	1.7	J	mg/kg	0.35	95% Chebyshev	Non-parametric, MO	0.35	95% Chebyshev	Non-parametric, MO
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	0.6	4.95	J	mg/kg	0.88	97.5% Chebyshev	Non-parametric, MH	0.88	97.5% Chebyshev	Non-parametric, MH
4,4'-DDE	mg/kg	0.04	0.06	2.6		mg/kg	0.13	97.5% Chebyshev	Non-parametric, MH	0.13	97.5% Chebyshev	Non-parametric, MH
4,4'-DDT	mg/kg	0.051	0.086	3.7		mg/kg	0.18	97.5% Chebyshev	Non-parametric, MH	0.18	97.5% Chebyshev	Non-parametric, MH
Aluminum	mg/kg	11,011	11,309	18,300		mg/kg	11,100	95% modified t	Non-parametric, M	11,100	95% modified t	Non-parametric, M
Antimony	mg/kg	4.0	7.7	424	J	mg/kg	13.9	95% Chebyshev	Non-parametric, MO	13.9	95% Chebyshev	Non-parametric, MO
Arsenic	mg/kg	5.4	5.7	32.2		mg/kg	5.8	95% modified t	Non-parametric, M	5.8	95% modified t	Non-parametric, M
Iron	mg/kg	21,212	21,830	64,000	J	mg/kg	21,844	95% modified t	Non-parametric, M	21,844	95% modified t	Non-parametric, M
Manganese	mg/kg	507	533	1,290		mg/kg	462	95% H-UCL	Lognormal	462	95% H-UCL	Lognormal
Thallium	mg/kg	0.32	0.41	1.8		mg/kg	0.17	95% Chebyshev	Non-parametric, MO	0.17	95% Chebyshev	Non-parametric, MO
Vanadium	mg/kg	19.3	19.7	28.5		mg/kg	19.5	95% modified t	Non-parametric, M	19.5	95% modified t	Non-parametric, M

Notes:

- Field duplicates were averaged and regarded as one sample entry. Lab duplicates were not included in the assessment. Nondetects were assumed to be half reporting limits.
- The EPCs were calculated using the ProUCL (Version 3.00.02) and the EPCs were selected in accordance with the ProUCL Version 3.0 User Guide (USEPA, 2004) and the Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites (USEPA, 2002).
 - HE - highly skewed to extremely highly skewed (standard deviation of log-transformed data in the interval (2.0, 3.0] data set.
 - MH - moderately to highly skewed (standard deviation of log-transformed data in the interval (1.0, 2.0] data set.
 - MO - moderately skewed (standard deviation of log-transformed data in the interval (0.5, 1] data set.
 - M - mildly skewed (standard deviation of log-transformed data less than or equal to 0.5) data set.
 - Q - qualifier
 - J = Estimated Value

APPENDIX E TABLE 2B
SOIL EXPOSURE POINT CONCENTRATION SUMMARY - SURFACE AND SUBSURFACE SOIL FOR SEAD-5¹
SEAD-59 AND SEAD-71 PHASE II RI
SENECA ARMY DEPOT ACTIVITY

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Soil
Exposure Point:	SEAD-59

Chemical of Potential Concern	Units	Arithmetic Mean (1)	95% UCL of Normal Data (1)	Maximum Detected Concentration (1)	Q	EPC Units	Reasonable Maximum Exposure (2)			Central Tendency (2)		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Surface and Subsurface Soil												
Benzo(a)anthracene	mg/kg	0.8	0.9	8.9	J	mg/kg	1.4	97.5 Chebyshev	Non-parametric, MH	1.4	97.5 Chebyshev	Non-parametric, MH
Benzo(a)pyrene	mg/kg	0.9	1.0	8.1	J	mg/kg	1.4	97.5 Chebyshev	Non-parametric, MH	1.4	97.5 Chebyshev	Non-parametric, MH
Benzo(b)fluoranthene	mg/kg	0.8	0.9	6.8	J	mg/kg	1.2	97.5 Chebyshev	Non-parametric, MH	1.2	97.5 Chebyshev	Non-parametric, MH
Benzo(k)fluoranthene	mg/kg	0.7	0.8	7.4	J	mg/kg	1.2	97.5 Chebyshev	Non-parametric, MH	1.2	97.5 Chebyshev	Non-parametric, MH
Chrysene	mg/kg	0.8	1.0	8.9	J	mg/kg	1.4	97.5 Chebyshev	Non-parametric, MH	1.4	97.5 Chebyshev	Non-parametric, MH
Dibenz(a,h)anthracene	mg/kg	0.3	0.3	1.7	J	mg/kg	0.40	95% Chebyshev	Non-parametric, MO	0.40	95% Chebyshev	Non-parametric, MO
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	0.6	4.95	J	mg/kg	0.87	97.5% Chebyshev	Non-parametric, MH	0.87	97.5% Chebyshev	Non-parametric, MH
4,4'-DDE	mg/kg	0.04	0.06	2.6		mg/kg	0.12	97.5% Chebyshev	Non-parametric, MH	0.12	97.5% Chebyshev	Non-parametric, MH
4,4'-DDT	mg/kg	0.048	0.081	3.7		mg/kg	0.17	97.5% Chebyshev	Non-parametric, MH	0.17	97.5% Chebyshev	Non-parametric, MH
Aluminum	mg/kg	10,895	11,184	18,300	J	mg/kg	10,900	95% modified t	Non-parametric, M	10,900	95% modified t	Non-parametric, M
Antimony	mg/kg	3.7	7.2	424	J	mg/kg	13.0	95% Chebyshev	Non-parametric, MO	13.0	95% Chebyshev	Non-parametric, MO
Arsenic	mg/kg	5.4	5.6	32.2		mg/kg	5.7	95% modified t	Non-parametric, M	5.7	95% modified t	Non-parametric, M
Iron	mg/kg	21,152	21,741	64,000	J	mg/kg	21,753	95% modified t	Non-parametric, M	21,753	95% modified t	Non-parametric, M
Manganese	mg/kg	503	527	1,290	J	mg/kg	462	95% H-UCL	Lognormal	462	95% H-UCL	Lognormal
Thallium	mg/kg	0.33	0.42	1.8	J	mg/kg	0.26	95% Chebyshev	Non-parametric, MO	0.26	95% Chebyshev	Non-parametric, MO
Vanadium	mg/kg	19.0	19.5	28.5	J	mg/kg	19.4	95% modified t	Non-parametric, M	19.4	95% modified t	Non-parametric, M

Notes:

- Field duplicates were averaged and regarded as one sample entry. Lab duplicates were not included in the assessment. Nondetects were assumed to be half reporting limits.
- The EPCs were calculated using the ProUCL (Version 3.00.02) and the EPCs were selected in accordance with the ProUCL Version 3.0 User Guide (USEPA, 2004) and the Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites (USEPA, 2002).
 - HE - highly skewed to extremely highly skewed (standard deviation of log-transformed data in the interval (2.0, 3.0] data set.
 - MH - moderately to highly skewed (standard deviation of log-transformed data in the interval (1.0, 2.0] data set.
 - MO - moderately skewed (standard deviation of log-transformed data in the interval (0.5, 1] data set.
 - M - mildly skewed (standard deviation of log-transformed data less than or equal to 0.5) data set.
 - Q - qualifier
 - J - Estimated Value

APPENIX E TABLE 2C
 AMBIENT AIR EXPOSURE POINT CONCENTRATIONS - SURFACE SOIL FOR SEAD-59
 SEAD-59 AND SEAD-71 PHASE II RI
 Seneca Army Depot Activity

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Air
Exposure Point:	SEAD-59

Equation for Air EPC from Surface Soil (mg/m³) = CSsurf x PM10 x CF

Variables:
 CSsurf = Chemical Concentration in Surface Soil, from EPC data (mg/kg)
 PM10 = Average Measured PM10 Concentration = 17 ug/m³
 CF = Conversion Factor = 1E-9 kg/ug

Analyte	Reasonable Maximum Exposure		Central Tendency Exposure	
	EPC Data for Surface Soil (mg/kg)	Calculated Air EPC Surface Soil (ng/m ³)	EPC Data for Surface Soil (mg/kg)	Calculated Air EPC Surface Soil (mg/m ³)
Benzo(a)anthracene	1.4	2.3E-08	1.4	2.3E-08
Benzo(a)pyrene	1.4	2.4E-08	1.4	2.4E-08
Benzo(h)fluoranthene	1.3	2.1E-08	1.3	2.1E-08
Benzo(k)fluoranthene	1.1	1.9E-08	1.1	1.9E-08
Chrysene	1.4	2.4E-08	1.4	2.4E-08
Dibenz(a,h)anthracene	0.4	6.0E-09	0.4	6.0E-09
Indeno(1,2,3-cd)pyrene	0.9	1.5E-08	0.9	1.5E-08
4,4'-DDE	0.1	2.2E-09	0.1	2.2E-09
4,4'-DDT	0.2	3.1E-09	0.2	3.1E-09
Aluminum	11100.0	1.9E-04	11100.0	1.9E-04
Antimony	13.9	2.4E-07	13.9	2.4E-07
Arsenic	5.8	9.8E-08	5.8	9.8E-08
Iron	21844.0	3.7E-04	21844.0	3.7E-04
Manganese	462.0	7.9E-06	462.0	7.9E-06
Thallium	0.2	2.9E-09	0.2	2.9E-09
Vanadium	19.5	3.3E-07	19.5	3.3E-07

APPENDIX E TABLE 2D
 AMBIENT AIR EXPOSURE POINT CONCENTRATIONS - SURFACE AND SUBSURFACE SOIL FOR SEAD-59
 SEAD-59 AND SEAD-71 PHASE II RI
 Seneca Army Depot Activity

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Air
Exposure Point:	SEAD-59

Equation for Air EPC from Total Soils (mg/m³) = CStot x PM10 x CF

Variables:
 CStot = Chemical Concentration in Total Soils, from EPC data (mg/kg)
 PM10 = PM10 Concentration Calculated for Construction Worker= 954 ug/m³
 CF = Conversion Factor = 1E-9 kg/ug

Analyte	Reasonable Maximum Exposure		Central Tendency Exposure	
	EPC Data for Surface and Subsurface Soil (mg/kg)	Calculated Air EPC Surface and Subsurface Soil (mg/m ³)	EPC Data for Surface and Subsurface Soil (mg/kg)	Calculated Air EPC Surface and Subsurface Soil (mg/m ³)
Benzo(a)anthracene	1.4	1.3E-06	1.4	1.3E-06
Benzo(a)pyrene	1.4	1.3E-06	1.4	1.3E-06
Benzo(b)fluoranthene	1.2	1.1E-06	1.2	1.1E-06
Benzo(k)fluoranthene	1.2	1.1E-06	1.2	1.1E-06
Chrysene	1.4	1.3E-06	1.4	1.3E-06
Dibenz(a,h)anthracene	0.4	3.8E-07	0.4	3.8E-07
Indeno(1,2,3-cd)pyrene	0.87	8.3E-07	0.87	8.3E-07
4,4'-DDE	0.12	1.1E-07	0.12	1.1E-07
4,4'-DDT	0.17	1.6E-07	0.17	1.6E-07
Aluminum	10900	1.0E-02	10900	1.0E-02
Antimony	13	1.2E-05	13	1.2E-05
Arsenic	5.7	5.4E-06	5.7	5.4E-06
Iron	21753	2.1E-02	21753	2.1E-02
Manganese	462	4.4E-04	462	4.4E-04
Thallium	0.26	2.5E-07	0.26	2.5E-07
Vanadium	19.4	1.9E-05	19.4	1.9E-05

APPENDIX E TABLE 2E
GROUNDWATER EXPOSURE POINT CONCENTRATION SUMMARY - SEAD-59
SEAD-59 AND SEAD-71 PHASE II RI
SENECA ARMY DEPOT ACTIVITY

Scenario Timeframe:	Current/Future
Medium:	Groundwater
Exposure Medium:	Groundwater
Exposure Point:	Aquifer--Tap Water

Chemical of Potential Concern	Units	Arithmetic Mean	Maximum Detected Concentration mg/L	Maximum Qualifier	Reasonable Maximum Exposure			Central Tendency		
					Medium EPC Value (mg/L)	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value (mg/L)	Medium EPC Statistic	Medium EPC Rationale
Antimony	mg/L	0.0045	0.0086	J	0.0086	MDC	See note	0.0086	MDC	See note
Arsenic	mg/L	0.0033	0.002	J	0.002	MDC	See note	0.002	MDC	See note
Iron	mg/L	1.08	3.94	J	3.94	MDC	See note	3.94	MDC	See note
Manganese	mg/L	0.19	0.78	J	0.78	MDC	See note	0.78	MDC	See note
Thallium	mg/L	0.0064	0.004	J	0.004	MDC	See note	0.004	MDC	See note
Vanadium	mg/L	0.0021	0.00526	J	0.00526	MDC	See note	0.00526	MDC	See note

Notes:

- Field duplicates were averaged and regarded as one sample entry. Lab duplicates were not included in the assessment. Concentrations for nondetects were assumed to be half the detection limits.
 - The maximum detected concentration was used as EPC for the RME scenario.
As residential use of groundwater has been based on the assumption that a single private well can be placed anywhere in the contaminated plume, the MDC across several rounds of monitoring was used as the EPC for groundwater as a conservative step for both the RME and CT scenarios.
 - The maximum detected concentration was used as EPC for the CT scenario.
- EPC = Exposure Point Concentration
MDC = Maximum Detected Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

APPENDIX E TABLE 2F
 SOIL EXPOSURE POINT CONCENTRATION SUMMARY - SEAD-59 STOCKPILE SOIL
 SEAD-59 AND SEAD-71 PHASE II RI
 SENECA ARMY DEPOT ACTIVITY

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Soil
Exposure Point:	SEAD-59 Stockpile

Chemical of Potential Concern	Units	Arithmetic Mean (1)	95% UCL of Normal Data (1)	Maximum Detected Concentration (1)	Q	EPC Units	Reasonable Maximum Exposure (2)			Central Tendency (2)		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Stockpile Soil												
Benzo(a)anthracene	mg/kg	5.0	5.7	14		mg/kg	6.8	95% Chebyshev	Non-parametric, MO	6.8	95% Chebyshev	Non-parametric, MO
Benzo(a)pyrene	mg/kg	5.7	6.5	16		mg/kg	7.9	95% Chebyshev	Non-parametric, MO	7.9	95% Chebyshev	Non-parametric, MO
Benzo(b)fluoranthene	mg/kg	4.3	4.9	11		mg/kg	5.1	95% Approximate Gamma	Approximate Gamma	5.1	95% Approximate Gamma	Approximate Gamma
Benzo(k)fluoranthene	mg/kg	4.2	4.9	13		mg/kg	6.7	97.5 Chebyshev	Non-parametric, MH	6.7	97.5 Chebyshev	Non-parametric, MH
Chrysene	mg/kg	5.0	5.7	13		mg/kg	6.8	95% Chebyshev	Non-parametric, MO	6.8	95% Chebyshev	Non-parametric, MO
Dibenz(a,h)anthracene	mg/kg	1.1	1.2	2.9	J	mg/kg	1.2	95% Student's t	Normal	1.2	95% Student's t	Normal
Indeno(1,2,3-cd)pyrene	mg/kg	3.0	3.5	8	J	mg/kg	3.5	95% Student's t	Normal	3.5	95% Student's t	Normal
Aluminum	mg/kg	10,701	10,974	13,400		mg/kg	10,800	95% modified t	Non-parametric, M	10,800	95% modified t	Non-parametric, M
Antimony	mg/kg	3.1	4.5	43.9	J	mg/kg	6.8	95% Chebyshev	Non-parametric, MO	6.8	95% Chebyshev	Non-parametric, MO
Arsenic	mg/kg	4.8	4.9	7.3	J	mg/kg	4.9	95% Approximate Gamma, H	Approximate Gamma, Lognormal	4.9	95% Approximate Gamma, H	Approximate Gamma, Lognormal
Iron	mg/kg	20,590	21,147	26,500	J	mg/kg	21,147	95% Student's t	Normal	21,147	95% Student's t	Normal
Lead	mg/kg	79	N/A	1,440	J	mg/kg	79	Mean	See Note	79	Mean	See Note
Manganese	mg/kg	522	557	1,220		mg/kg	489	95% modified t	Non-parametric, M	489	95% modified t	Non-parametric, M
Thallium	mg/kg	0.50	0.66	0.99	J	mg/kg	0.56	95% Chebyshev	Non-parametric, MO	0.56	95% Chebyshev	Non-parametric, MO
Vanadium	mg/kg	19.9	20.6	35.4		mg/kg	19.4	95% Approximate Gamma	Approximate Gamma	19.4	95% Approximate Gamma	Approximate Gamma

Notes.

- Field duplicates were averaged and regarded as one sample entry. Lab duplicates were not included in the assessment. Nondetects were assumed to be half reporting limits.
- The EPCs were calculated using the ProUCL (Version 3.00.02) and the EPCs were selected in accordance with the ProUCL Version 3.0 User Guide (USEPA, 2004) and the Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites (USEPA, 2002). The average lead concentration was used as the lead EPC in accordance with the User's Guide for the Integrated Exposure Uptake Biokinetic Model for Lead in Children (IEUBK) Windows® Version – 32 bit Version (USEPA, 2002).
 - HE - highly skewed to extremely highly skewed (standard deviation of log-transformed data in the interval (2.0, 3.0] data set.
 - MH - moderately to highly skewed (standard deviation of log-transformed data in the interval (1.0, 2.0] data set.
 - MO - moderately skewed (standard deviation of log-transformed data in the interval (0.5, 1] data set.
 - M - mildly skewed (standard deviation of log-transformed data less than or equal to 0.5) data set.
 - Q - qualifier
 - J = Estimated Value

APPENDIX E TABLE 2G
 AMBIENT AIR EXPOSURE POINT CONCENTRATIONS - SEAD-59 STOCKPILE SOIL
 SEAD-59 AND SEAD-71 PHASE II RI
 Seneca Army Depot Activity

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Air
Exposure Point:	SEAD-59 Stockpile

Equation for Air EPC from Stockpile Soil (mg/m ³) = CS _{surf} x PM10 x CF
Variables:
CS _{surf} = Chemical Concentration in Stockpile Soil, from EPC data (mg/kg)
PM10 = Average Measured PM10 Concentration = 17 ug/m ³
CF = Conversion Factor = 1E-9 kg/ug

Analyte	Reasonable Maximum Exposure		Central Tendency Exposure	
	EPC Data for Stockpile Soil (mg/kg)	Calculated Air EPC Stockpile Soil (mg/m ³)	EPC Data for Stockpile Soil (mg/kg)	Calculated Air EPC Stockpile Soil (mg/m ³)
Benzo(a)anthracene	6.8	1.2E-07	6.8	1.2E-07
Benzo(a)pyrene	7.9	1.3E-07	7.9	1.3E-07
Benzo(b)fluoranthene	5.1	8.7E-08	5.1	8.7E-08
Benzo(k)fluoranthene	6.7	1.1E-07	6.7	1.1E-07
Chrysene	6.8	1.2E-07	6.8	1.2E-07
Dibenz(a,h)anthracene	1.2	2.0E-08	1.2	2.0E-08
Indeno(1,2,3-cd)pyrene	3.5	6.0E-08	3.5	6.0E-08
Aluminum	10800	1.8E-04	10800	1.8E-04
Antimony	6.8	1.2E-07	6.8	1.2E-07
Arsenic	4.9	8.3E-08	4.9	8.3E-08
Iron	21147	3.6E-04	21147	3.6E-04
Lead	79.18	1.3E-06	79.18	1.3E-06
Manganese	489	8.3E-06	489	8.3E-06
Thallium	0.56	9.5E-09	0.56	9.5E-09
Vanadium	19.4	3.3E-07	19.4	3.3E-07

APPENDIX E TABLE 2H
 SOIL EXPOSURE POINT CONCENTRATION SUMMARY - SURFACE SOIL FOR SEAD-71 (FENCED AREA EXCLUDED)
 SEAD-59 AND SEAD-71 PHASE II RI
 SENECA ARMY DEPOT ACTIVITY

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Soil
Exposure Point:	SEAD-71

Chemical of Potential Concern	Units	Arithmetic Mean (1)	95% UCL of Normal Data (1)	Maximum Detected Concentration (1)	Q	EPC Units	Reasonable Maximum Exposure (2)			Central Tendency (2)		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Surface Soil												
2-Methylnaphthalene	mg/kg	0.32	0.67	0.77	J	mg/kg	0.19	97.5% Chebyshev	Non-parametric, MH	0.19	97.5% Chebyshev	Non-parametric, MH
Benzo(a)anthracene	mg/kg	1.0	1.5	10		mg/kg	2.9	97.5% Chebyshev	Non-parametric, MH	2.9	97.5% Chebyshev	Non-parametric, MH
Benzo(a)pyrene	mg/kg	1.0	1.5	9		mg/kg	2.7	97.5% Chebyshev	Non-parametric, MH	2.7	97.5% Chebyshev	Non-parametric, MH
Benzo(b)fluoranthene	mg/kg	0.9	1.4	7.4		mg/kg	1.6	95% H-UCL	Lognormal, MH	1.6	95% H-UCL	Lognormal, MH
Benzo(k)fluoranthene	mg/kg	0.9	1.3	8		mg/kg	2.4	97.5% Chebyshev	Non-parametric, MH	2.4	97.5% Chebyshev	Non-parametric, MH
Chrysene	mg/kg	1.2	1.7	10		mg/kg	1.9	95% H-UCL	Lognormal, MH	1.9	95% H-UCL	Lognormal, MH
Dibenz(a,h)anthracene	mg/kg	0.35	0.47	2	J	mg/kg	0.7	95% Chebyshev	Non-parametric, MO	0.7	95% Chebyshev	Non-parametric, MO
Indeno(1,2,3-cd)pyrene	mg/kg	0.65	0.93	5.4	J	mg/kg	1.7	97.5% Chebyshev	Non-parametric, MH	1.7	97.5% Chebyshev	Non-parametric, MH
Naphthalene	mg/kg	0.30	0.46	1.1	J	mg/kg	0.19	95% Chebyshev	Non-parametric, MO	0.19	95% Chebyshev	Non-parametric, MO
Aluminum	mg/kg	11,506	12,058	15,900		mg/kg	12,150	95% Student t	Normal	12,150	95% Student t	Normal
Antimony	mg/kg	2.17	3.56	11.5	J	mg/kg	1.6	95% Chebyshev	Non-parametric, MO	1.6	95% Chebyshev	Non-parametric, MO
Arsenic	mg/kg	5.9	6.3	14.6		mg/kg	6.3	95% Approximate Gamma	Gamma	6.3	95% Approximate Gamma	Gamma
Iron	mg/kg	23,129	24,133	38,000		mg/kg	24,133	95% Student t	Normal	24,133	95% Student t	Normal
Lead	mg/kg	115	N/A	1,010		mg/kg	115	Mean	Mean	115	Mean	Mean
Manganese	mg/kg	581	620	1,330		mg/kg	548	95% Approximate Gamma	Gamma	548	95% Approximate Gamma	Gamma
Thallium	mg/kg	0.47	0.71	2.3		mg/kg	0.29	95% Chebyshev	Non-parametric, MO	0.29	95% Chebyshev	Non-parametric, MO
Vanadium	mg/kg	18.6	19.3	24		mg/kg	19.3	95% Student t	Normal	19.3	95% Student t	Normal

Notes:

- Field duplicates were averaged and regarded as one sample entry. Lab duplicates were not included in the assessment. Nondetects were assumed to be half reporting limits.
- The EPCs were calculated using the ProUCL (Version 3.00.02) and the EPCs were selected in accordance with the ProUCL Version 3.0 User Guide (USEPA, 2004) and the Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites (USEPA, 2002). The average lead concentration was used as the lead EPC in accordance with the User's Guide for the Integrated Exposure Uptake Biokinetic Model for Lead in Children (IEUBK) Windows® Version – 32 bit Version (USEPA, 2002).
 - HE - highly skewed to extremely highly skewed (standard deviation of log-transformed data in the interval (2.0, 3.0] data set.
 - MH - moderately to highly skewed (standard deviation of log-transformed data in the interval (1.0, 2.0] data set.
 - MO - moderately skewed (standard deviation of log-transformed data in the interval (0.5, 1.0] data set
 - M - mildly skewed (standard deviation of log-transformed data less than or equal to 0.5) data set.
 - Q - qualifier
 - J = Estimated Value

APPENDIX E TABLE 21
 SOIL EXPOSURE POINT CONCENTRATION SUMMARY - SURFACE AND SUBSURFACE SOIL FOR SEAD-71 (FENCED AREA EXCLUDED)
 SEAD-59 AND SEAD-71 PHASE II RI
 SENECA ARMY DEPOT ACTIVITY

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Soil
Exposure Point:	SEAD-71

Chemical of Potential Concern	Units	Arithmetic Mean (1)	95% UCL of Normal Data (1)	Maximum Detected Concentration (1)	Q	EPC Units	Reasonable Maximum Exposure (2)			Central Tendency (2)		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Surface and Subsurface Soil												
2-Methylnaphthalene	mg/kg	0.94	4.2	31	J	mg/kg	0.19	97.5% Chebyshev	Non-parametric, MH	0.19	97.5% Chebyshev	Non-parametric, MH
Benzo(a)anthracene	mg/kg	1.6	2.6	37		mg/kg	5.5	97.5% Chebyshev	Non-parametric, MH	5.5	97.5% Chebyshev	Non-parametric, MH
Benzo(a)pyrene	mg/kg	1.3	1.9	22		mg/kg	3.8	97.5% Chebyshev	Non-parametric, MH	3.8	97.5% Chebyshev	Non-parametric, MH
Benzo(b)fluoranthene	mg/kg	1.3	2.1	26		mg/kg	2.2	95% H-UCL	Lognormal, MH	2.2	95% H-UCL	Lognormal, MH
Benzo(k)fluoranthene	mg/kg	1	1.5	15	J	mg/kg	3	97.5% Chebyshev	Non-parametric, MH	3	97.5% Chebyshev	Non-parametric, MH
Chrysene	mg/kg	1.6	2.7	36		mg/kg	2.6	95% H-UCL	Lognormal, MH	2.6	95% H-UCL	Lognormal, MH
Dibenz(a,h)anthracene	mg/kg	0.5	0.8	9.8	J	mg/kg	1.5	97.5% Chebyshev	Non-parametric, MH	1.5	97.5% Chebyshev	Non-parametric, MH
Indeno(1,2,3-cd)pyrene	mg/kg	0.8	1.2	12	J	mg/kg	2.2	97.5% Chebyshev	Non-parametric, MH	2.2	97.5% Chebyshev	Non-parametric, MH
Naphthalene	mg/kg	0.69	2.6	17	J	mg/kg	0.19	97.5% Chebyshev	Non-parametric, MH	0.19	97.5% Chebyshev	Non-parametric, MH
Aluminum	mg/kg	11,493	11,997	15,900		mg/kg	12,150	95% Student t UCL	Normal	12,150	95% Student t UCL	Normal
Antimony	mg/kg	1.9	3.2	11.5	J	mg/kg	1.6	95% Chebyshev	Non-parametric, MO	1.6	95% Chebyshev	Non-parametric, MO
Arsenic	mg/kg	5.8	6.1	14.6		mg/kg	6.1	95% H-UCL	Lognormal	6.1	95% H-UCL	Lognormal
Iron	mg/kg	22,859	23,752	38,000		mg/kg	23,752	95% Student t UCL	Normal	23,752	95% Student t UCL	Normal
Lead	mg/kg	104.5	N/A	1,010		mg/kg	104.5	Mean	Mean	104.5	Mean	Mean
Manganese	mg/kg	570	605	1,330		mg/kg	539	95% Approximate Gamma	Gamma	539	95% Approximate Gamma	Gamma
Thallium	mg/kg	0.45	0.67	2.3		mg/kg	0.29	95% Chebyshev	Non-parametric, MO	0.29	95% Chebyshev	Non-parametric, MO
Vanadium	mg/kg	18.7	19.3	24.9		mg/kg	19.3	95% Student t UCL	Normal	19.3	95% Student t UCL	Normal

Notes:

- Field duplicates were averaged and regarded as one sample entry. Lab duplicates were not included in the assessment. Nondetects were assumed to be half reporting limits.
- The EPCs were calculated using the ProUCL (Version 3.00.02) and the EPCs were selected in accordance with the ProUCL Version 3.0 User Guide (USEPA, 2004) and the Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites (USEPA, 2002). The average lead concentration was used as the lead EPC in accordance with the User's Guide for the Integrated Exposure Uptake Biokinetic Model for Lead in Children (IEUBK) Windows® Version – 32 bit Version (USEPA, 2002).
 HIE - highly skewed to extremely highly skewed (standard deviation of log-transformed data in the interval [2.0, 3.0] data set.
 MH - moderately to highly skewed (standard deviation of log-transformed data in the interval [1.0, 2.0] data set.
 MO - moderately skewed (standard deviation of log-transformed data in the interval [0.5, 1.0] data set
 M - mildly skewed (standard deviation of log-transformed data less than or equal to 0.5) data set.
 Q - qualifier
 J = Estimated Value

APPENDIX E TABLE 2J
 AMBIENT AIR EXPOSURE POINT CONCENTRATIONS - SURFACE SOIL FOR SEAD-71 (FENCED AREA EXCLUDED)
 SEAD-59 AND SEAD-71 PHASE II RI
 Seneca Army Depot Activity

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Air
Exposure Point:	SEAD-71

Equation for Air EPC from Surface Soil (mg/m³) = CS_{surf} x PM10 x CF

Variables:
 CS_{surf} = Chemical Concentration in Surface Soil, from EPC data (mg/kg)
 PM10 = Average Measured PM10 Concentration = 17 ug/m³
 CF = Conversion Factor = 1E-9 kg/ug

Analyte	Reasonable Maximum Exposure		Central Tendency Exposure	
	EPC Data for Surface Soil	Calculated Air EPC Surface Soil	EPC Data for Surface Soil	Calculated Air EPC Surface Soil
	(mg/kg)	(mg/m ³)	(mg/kg)	(mg/m ³)
2-Methylnaphthalene	0.185	3.1E-09	0.185	3.1E-09
Benzo(a)anthracene	2.9	4.9E-08	2.9	4.9E-08
Benzo(a)pyrene	2.7	4.6E-08	2.7	4.6E-08
Benzo(b)fluoranthene	1.6	2.7E-08	1.6	2.7E-08
Benzo(k)fluoranthene	2.4	4.1E-08	2.4	4.1E-08
Chrysene	1.9	3.2E-08	1.9	3.2E-08
Dibenz(a,h)anthracene	0.7	1.2E-08	0.7	1.2E-08
Indeno(1,2,3-cd)pyrene	1.7	2.9E-08	1.7	2.9E-08
Naphthalene	0.185	3.1E-09	0.185	3.1E-09
Aluminum	12150	2.1E-04	12150	2.1E-04
Antimony	1.6	2.7E-08	1.6	2.7E-08
Arsenic	6.3	1.1E-07	6.3	1.1E-07
Iron	24133	4.1E-04	24133	4.1E-04
Lead	115	2.0E-06	115	2.0E-06
Manganese	547.5	9.3E-06	547.5	9.3E-06
Thallium	0.29	4.9E-09	0.29	4.9E-09
Vanadium	19.3	3.3E-07	19.3	3.3E-07

APPENDIX E TABLE 2K
 AMBIENT AIR EXPOSURE POINT CONCENTRATIONS - SURFACE AND SUBSURFACE SOIL FOR SEAD-71 (FENCED AREA EXCLUDED)
 SEAD-59 AND SEAD-71 PHASE II RI
 Seneca Army Depot Activity

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Air
Exposure Point:	SEAD-71

Equation for Air EPC from Total Soils (mg/m³) = CStot x PM10 x CF

Variables:
 CStot = Chemical Concentration in Total Soils, from EPC data (mg/kg)
 PM10 = PM10 Concentration Calculated for Construction Worker = 954 ug/m³
 CF = Conversion Factor = 1E-9 kg/ug

Analyte	Reasonable Maximum Exposure		Central Tendency Exposure	
	EPC Data for Surface and Subsurface Soil (mg/kg)	Calculated Air EPC Surface and Subsurface Soil (mg/m ³)	EPC Data for Surface and Subsurface Soil (mg/kg)	Calculated Air EPC Surface and Subsurface Soil (mg/m ³)
2-Methylnaphthalene	0.185	1.8E-07	0.185	1.8E-07
Benzo(a)anthracene	5.5	5.2E-06	5.5	5.2E-06
Benzo(a)pyrene	3.8	3.6E-06	3.8	3.6E-06
Benzo(h)fluoranthene	2.2	2.1E-06	2.2	2.1E-06
Benzo(k)fluoranthene	3	2.9E-06	3	2.9E-06
Chrysene	2.6	2.5E-06	2.6	2.5E-06
Dibenz(a,h)anthracene	1.5	1.4E-06	1.5	1.4E-06
Indeno(1,2,3-cd)pyrene	2.2	2.1E-06	2.2	2.1E-06
Naphthalene	0.185	1.8E-07	0.185	1.8E-07
Aluminum	12150	1.2E-02	12150	1.2E-02
Antimony	1.6	1.5E-06	1.6	1.5E-06
Arsenic	6.1	5.8E-06	6.1	5.8E-06
Iron	23752	2.3E-02	23752	2.3E-02
Lead	104.5	1.0E-04	104.5	1.0E-04
Manganese	538.5	5.1E-04	538.5	5.1E-04
Thallium	0.29	2.8E-07	0.29	2.8E-07
Vanadium	19.3	1.8E-05	19.3	1.8E-05



APPENDIX E TABLE 2L
GROUNDWATER EXPOSURE POINT CONCENTRATION SUMMARY - SEAD-71 (FENCED AREA EXCLUDED)
SEAD-59 AND SEAD-71 PHASE II RI
SENECA ARMY DEPOT ACTIVITY

Scenario Timeframe:	Current/Future
Medium:	Groundwater
Exposure Medium:	Groundwater
Exposure Point:	SEAD-71

Chemical of Potential Concern	Units	Arithmetic Mean (1)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	RME (2)			CT (3)		
						Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
4-Nitroaniline	ug/L	7.8	8.7	J	ug/L	8.7	MDC	See note	8.7	MDC	See note
Aluminum	ug/L	4,062	19,700		ug/L	19700	MDC	See note	19700	MDC	See note
Antimony	ug/L	3.94	6.52	J	ug/L	6.52	MDC	See note	6.52	MDC	See note
Arsenic	ug/L	3.1	2.7	J	ug/L	2.7	MDC	See note	2.7	MDC	See note
Chromium	ug/L	5.57	33.1		ug/L	33.1	MDC	See note	33.1	MDC	See note
Iron	ug/L	5,063	35,100		ug/L	35,100	MDC	See note	35,100	MDC	See note
Lead	ug/L	4.2	17.2		ug/L	17.2	MDC	See note	17.2	MDC	See note
Manganese	ug/L	633	2,680		ug/L	2,680	MDC	See note	2,680	MDC	See note
Thallium	ug/L	6.0	2.5	J	ug/L	2.5	MDC	See note	2.5	MDC	See note
Vanadium	ug/L	4.71	25.7	J	ug/L	25.7	MDC	See note	25.7	MDC	See note

Notes:

- Field duplicates were averaged and regarded as one sample entry. Lab duplicates were not included in the assessment.
Concentrations for nondetects were assumed to be half the detection limits.
 - The maximum detected concentration was used as EPC for the RME scenario.
As residential use of groundwater has been based on the assumption that a single private well can be placed anywhere in the contaminated plume, the MDC across several rounds of monitoring was used as the EPC for groundwater as a conservative step for both the RME and CT scenarios.
 - The maximum detected concentration was used as EPC for the CT scenario.
- EPC = Exposure Point Concentration
MDC = Maximum Detected Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

**APPENDIX E TABLE 3
EXPOSURE FACTOR ASSUMPTIONS FOR SEAD-59 AND SEAD-71
SEAD-59 AND SEAD-71 PHASE II RI
Seneca Army Depot Activity**

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Soil
Exposure Point:	SEAD-59 and SEAD-71
Receptor Population:	Adolescent Trespasser / Adolescent Visitor
Receptor Age:	Adolescent (11-16 yr)

EXPOSURE ROUTE	PARAMETER CODE	PARAMETER DEFINITION	UNITS	RME VALUE	RME RATIONALE	RME REFERENCE
Ingestion of Soil	EPC	Soil EPC	mg/kg		Surface soils.	See Table 6-4A/B/C & 6-5A/B
	BW	Body Weight	kg	50	Average weight for adolescent ages 11-16 (Table 7-3).	USEPA, 2002.
	IR	Ingestion Rate	mg/day	100	Default soil ingestion rate for adult.	USEPA, 2002.
	FI	Fraction Ingested	unitless	1	Assuming 100% ingestion from site	BPJ.
	EF	Exposure Frequency	days/yr	14	Assumption.	BPJ.
	ED	Exposure Duration	year	5	Assumption.	BPJ.
	CF	Conversion Factor	kg/mg	1.E-06		
	AT(Nc) AT(Car)	Averaging Time - Nc Averaging Time - Car	days days	1,825 25,550	5 years. 70 years, default value for human life span	USEPA, 2002.
Dermal Contact of Soil	EPC	Soil EPC	mg/kg		Surface soils.	See Table 6-4A/B/C & 6-5A/B
	BW	Body Weight	kg	50	Average weight for adolescent ages 11-16 (Table 7-3).	USEPA, 2002.
	SA	Skin Contact Surface Area	cm ²	5,867	Average surface area for adolescent child (11-16) including head, hands, forearms, lower legs, and feet.	USEPA, 1997.
	AF	Soil/Skin Adherence Factor	mg/cm ² -event	0.07	Default value for adult.	USEPA, 2004.
	ABS	Dermal Absorption Fraction	unitless		Chemical-specific	USEPA, 2004.
	EV	Event Frequency	events/day	1	Default value for residential child.	USEPA, 2004.
	EF	Exposure Frequency	days/yr	14	Assumption.	BPJ.
	ED	Exposure Duration	year	5	Assumption.	BPJ.
	CF	Conversion Factor	kg/mg	1E-06		
	AT(Nc) AT(Car)	Averaging Time - Nc Averaging Time - Car	days days	1,825 25,550	5 years. 70 years, default value for human life span	USEPA, 2002.

Notes:

RME = Reasonable Maximum Exposure

Source References:

- BPJ: Best Professional Judgment.
- USEPA, 1997: Exposure Factors Handbook
- USEPA, 2002: Supplemental Guidance For Developing Soil Screening Levels For Superfund Sites. December.
- USEPA, 2004: Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Final.

Intake Equations:

Ingestion Daily Intake (DI) (mg/kg-day) = EPC x IR x EF x ED x CF x FI / (BW x AT)
Dermal DI (mg/kg-day) = EPC x SA x AF x ABS x EV x EF x ED x CF / (BW x AT)

**APPENDIX E TABLE 3
EXPOSURE FACTOR ASSUMPTIONS FOR SEAD-59 AND SEAD-71
SEAD-59 AND SEAD-71 PHASE II RI
Seneca Army Depot Activity**

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Air
Exposure Point:	SEAD-59 and SEAD-71
Receptor Population:	Adolescent Trespasser / Adolescent Visitor
Receptor Age:	Adolescent (11-16 yr)

EXPOSURE ROUTE	PARAMETER CODE	PARAMETER DEFINITION	UNITS	RME VALUE	RME RATIONALE	RME REFERENCE
Inhalation of Dust in Ambient Air	EPC	Air EPC	mg/m ³		Surface soils.	See Table 6-7A/B/C & 6-8A/B
	BW	Body Weight	kg	50	Average weight for adolescent ages 11-16 (Table 7-3).	USEPA, 2002.
	IR	Inhalation Rate	m ³ /day	1.6	Average inhalation rate for moderate activity is 1.6 m ³ /hr. Assuming 1 hr/day exposure.	USEPA, 1997 & BPJ.
	EF	Exposure Frequency	days/yr	14	Assumption.	BPJ.
	ED	Exposure Duration	year	5	Assumption.	BPJ.
	AT(Nc)	Averaging Time - Nc	days	1,825	6 years.	
	AT(Car)	Averaging Time - Car	days	25,550	70 years, default value for human life span.	USEPA, 2002.

Notes:
RME = Reasonable Maximum Exposure

Source References:
 • BPJ: Best Professional Judgment.
 • USEPA, 1997: Exposure Factors Handbook
 • USEPA, 2002: Supplemental Guidance For Developing Soil Screening Levels For Superfund Sites. December.
 • USEPA, 2004: Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Final.

Intake Equation:
 Inhalation Daily Intake (DI) (mg/kg-day) = EPC x IR x EF x ED / (BW x AT)

**APPENDIX E TABLE 3
EXPOSURE FACTOR ASSUMPTIONS FOR SEAD-59 AND SEAD-71
SEAD-59 AND SEAD-71 PHASE II RI
Seneca Army Depot Activity**

Scenario Timeframe:	Current/Future
Medium:	Groundwater
Exposure Medium:	Groundwater
Exposure Point:	SEAD-59 and SEAD-71
Receptor Population:	Adolescent Trespasser / Adolescent Visitor
Receptor Age:	Adolescent (11-16 yr)

EXPOSURE ROUTE	PARAMETER CODE	PARAMETER DEFINITION	UNITS	RME VALUE	RME RATIONALE	RME REFERENCE
Intake of Groundwater	EPC	Groundwater EPC	mg/L		See Table 6-6A/B	See Table 6-6A/B
	BW	Body Weight	kg	50	Average weight for adolescent ages 11-16 (Table 7-3).	USEPA, 2002.
	IR	Intake Rate	L/day	2	95th percentile for 11-19 yr old.	USEPA, 1997.
	EF	Exposure Frequency	days/yr	14	Assumption.	BPJ.
	ED	Exposure Duration	year	5	Assumption.	BPJ.
	AT(Nc)	Averaging Time - Nc	days	1,825	5 years.	
	AT(Car)	Averaging Time - Car	days	25,550	70 years, default value for human life span.	USEPA, 2002

Notes:

RME = Reasonable Maximum Exposure

Source References:

- BPJ: Best Professional Judgment.
- USEPA, 1997: Exposure Factors Handbook
- USEPA, 2002: Supplemental Guidance For Developing Soil Screening Levels For Superfund Sites. December.
- USEPA, 2004: Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Final.

Intake Equation:

Ingestion Daily Intake (DI) (mg/kg-day) = EPC x IR x EF x ED x CF x FI / (BW x AT)

**APPENDIX E TABLE 4A
NON-CANCER TOXICITY DATA -- ORAL/DERMAL
SEAD-59 AND SEAD-71**

Chemical of Potential Concern	Chronic/ Subchronic	Oral RfD Value	Oral RfD Units	Oral to Dermal Adjustment Factor (1)	Adjusted Dermal RfD (2)	Units	Primary Target Organ	Combined Uncertainty/Modifying Factors	Sources of RfD: Target Organ	Dates of RfD: Target Organ (3) (MM/DD/YY)
2-Methylnaphthalene	Chronic	4E-03	mg/kg-day	1	4.00E-03	mg/kg-day	Respiratory System	1000	IRIS	2/17/2006
4-nitroaniline	Chronic	3.00E-03	mg/kg-day	1	3.00E-03	mg/kg-day	N/A	N/A	PPRTV	10/8/2004
Acenaphthylene	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(a)anthracene	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(a)pyrene	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(b)fluoranthene	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(ghi)perylene	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(k)fluoranthene	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
Carbazole	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
Chrysene	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
Dibenz(a,h)anthracene	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
Indeno(1,2,3-cd)pyrene	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
Naphthalene	Chronic	2E-02	mg/kg-day	1	2E-02	mg/kg-day	Body Weight	3000	IRIS	2/13/2006
Phenanthrene	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDE	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDT	Chronic	5E-04	mg/kg-day	1	5E-04	mg/kg-day	Liver	100	IRIS	12/03/2004
Heptachlor epoxide	Chronic	1.3E-05	mg/kg-day	1	1.3E-05	mg/kg-day	Liver	1000	IRIS	12/03/2004
Aluminum	Chronic	1.0E+00	mg/kg-day	1	1.0E+00	mg/kg-day	N/A	N/A	NCEA	8/26/1996
Antimony	Chronic	4E-04	mg/kg-day	0.15	6E-05	mg/kg-day	Whole Body Blood	1000	IRIS	12/03/2004
Arsenic	Chronic	3E-04	mg/kg-day	1	3E-04	mg/kg-day	Skin	3	IRIS	12/03/2004
Chromium (VI)	Chronic	3E-03	mg/kg-day	0.025	8E-05	mg/kg-day	Weight, Blood, and Other Tissues	900	IRIS	2/13/06
Iron	Chronic	3E-01	mg/kg-day	1	3E-01	mg/kg-day	N/A	1	NCEA	07/23/96
Manganese (4)	Chronic	2.3E-02	mg/kg-day	0.04	9E-04	mg/kg-day	Central Nervous	3	IRIS	12/23/2004

**APPENDIX E TABLE 4A
NON-CANCER TOXICITY DATA -- ORAL/DERMAL
SEAD-59 AND SEAD-71**

Chemical of Potential Concern	Chronic/ Subchronic	Oral RfD Value	Oral RfD Units	Oral to Dermal Adjustment Factor (1)	Adjusted Dermal RfD (2)	Units	Primary Target Organ	Combined Uncertainty/Modifying Factors	Sources of RfD: Target Organ	Dates of RfD: Target Organ (3) (MM/DD/YY)
Thallium (5)	Chronic	6E-04	mg/kg-day	1	6E-04	mg/kg-day	Liver, Blood, Hair	3000	IRIS	12/23/2004
Vanadium	Chronic	1.0E-03	mg/kg-day	0.026	3E-05	mg/kg-day	N/A	N/A	NCEA, quoted in Region 3 and Region 9	2/13/06

N/A = Not Applicable

NCEA = National Center for Environmental Assessment

IRIS = Integrated Risk Information System

PPRTV = EPA's Provisional Peer Reviewed Toxicity Values

(1) Source: Supplemental Guidance for Dermal Risk Assessment. Part E of Risk Assessment Guidance for Superfund, Human Health Evaluation Manual (Volume 1). Final. USEPA, 2004.

A default value of 1 was used if no value was available in the USEPA (2004) document.

(2) Dermal RfD = Oral RfD x Adjustment Factor

(3) For IRIS values, the date was the last time IRIS was checked.

For NCEA values, the date was the date of the article provided by NCEA.

For PPRTV values, the date was the date of the Region III RBC table, where the PPRTV was cited from.

(4) The chronic oral RfD for manganese was adjusted by using a modifying factor of 3 in accordance with the IRIS recommendation.

In addition, dietary exposure (assumed 5 mg/day) was subtracted. Thus, the RfD used in this risk assessment is 1/6 of the value listed in the IRIS.

(5) The chronic oral RfD for thallium was based on the chronic oral RfD of thallium sulfate adjusted for molecular weight differences.

**APPENDIX E TABLE 4B
NON-CANCER TOXICITY DATA -- INHALATION
SEAD-59 AND SEAD-71**

Chemical of Potential Concern	Chronic/ Subchronic	Value Inhalation RfC	Units	Adjusted Inhalation RfD (1)	Units	Primary Target Organ	Combined Uncertainty/Modifyin Factors	Sources of RfC:RfD: Target Organ	Dates (2) (MM/DD/YY)
2-Methylnaphthalene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4-nitroaniline	Chronic	N/A	N/A	1.00E-03	mg/kg-day	N/A	N/A	PPRTV	10/8/2004
Acenaphthylene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(a)anthracene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(a)pyrene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(b)fluoranthene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(ghi)perylene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(k)fluoranthene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carbazole	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chrysene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dibenz(a,h)anthracene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indeno(1,2,3-cd)pyrene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Naphthalene	Chronic	3E-03	mg/m ³	8.57E-04	mg/kg-day	Nasal and Respiratory System	3000	IRIS	2/13/2006
Phenanthrene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor epoxide	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aluminum	Chronic	5E-03	mg/m ³	1.43E-03	mg/kg-day	N/A	N/A	NCEA	6/20/1997
Antimony	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chromium (VI)	Chronic	1E-04	mg/m ³	3E-05	mg/kg-day	Respiratory System	300	IRIS	2/13/2006
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	Chronic	5E-05	mg/m ³	1E-05	mg/kg-day	Central Nervous System	1000	IRIS	12/23/04
Thallium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**APPENDIX E TABLE 4B
NON-CANCER TOXICITY DATA -- INHALATION
SEAD-59 AND SEAD-71**

Chemical of Potential Concern	Chronic/ Subchronic	Value Inhalation RfC	Units	Adjusted Inhalation RfD (1)	Units	Primary Target Organ	Combined Uncertainty/Modifyin Factors	Sources of RfC:RfD: Target Organ	Dates (2) (MM/DD/YY)
Vanadium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:

(1) Inhalation RfD was adjusted based on the assumption of 70 kg body weight and 20 m³/day inhalation rate.

(2) For IRIS values, the date was the last time IRIS was checked.

For PPRTV values, the date was the date of the Region III RBC table, where the PPRTV was cited from.

N/A = Not Applicable

IRIS = Integrated Risk Information System

PPRTV = EPA's Provisional Peer Reviewed Toxicity Values

**APPENDIX E TABLE 4C
CANCER TOXICITY DATA -- ORAL/DERMAL
SEAD-59 AND SEAD-71**

Chemical of Potential Concern	Oral Cancer Slope Factor	Oral Cancer Slope Factor Source	Oral to Dermal Adjustment Factor (1)	Adjusted Dermal Cancer Slope Factor (2)	Units	Weight of Evidence/ Cancer Guideline Description	Weight of Evidence Source	Date (3) (MM/DD/YY)
2-Methylnaphthalene	N/A	N/A	N/A	N/A	N/A	inadequate to assess human carcinogenic potential	IRIS	2/17/2006
4-nitroaniline	2.00E-02	PPRTV	1	2.00E-02	(mg/kg-day) ⁻¹	N/A	N/A	10/8/2004
Acenaphthylene	N/A	N/A	1	N/A	N/A	D	IRIS	12/03/2004
Benzo(a)anthracene	0.73	NCEA	1	0.73	(mg/kg-day) ⁻¹	B2	IRIS	10/8/2004
Benzo(a)pyrene	7.3	IRIS	1	7.3	(mg/kg-day) ⁻¹	B2	IRIS	12/03/2004
Benzo(b)fluoranthene	0.73	NCEA	1	0.73	(mg/kg-day) ⁻¹	B2	IRIS	10/8/2004
Benzo(ghi)perylene	N/A	N/A	1	N/A	N/A	D	IRIS	12/03/2004
Benzo(k)fluoranthene	0.073	NCEA	1	0.073	(mg/kg-day) ⁻¹	B2	IRIS	10/8/2004
Carbazole	0.02	HEAST, 1997	1	0.02	(mg/kg-day) ⁻¹	N/A	N/A	N/A
Chrysene	0.0073	NCEA	1	0.0073	(mg/kg-day) ⁻¹	B2	IRIS	10/8/2004
Dibenz(a,h)anthracene	7.3	NCEA	1	7.3	(mg/kg-day) ⁻¹	B2	IRIS	10/8/2004
Indeno(1,2,3-cd)pyrene	0.73	NCEA	1	0.73	(mg/kg-day) ⁻¹	B2	IRIS	10/8/2004
Naphthalene	N/A	N/A	N/A	N/A	N/A	C ⁴	IRIS	2/13/2006
Phenanthrene	N/A	N/A	1	N/A	N/A	D	IRIS	12/03/2004
4,4'-DDE	0.34	IRIS	1	0.34	(mg/kg-day) ⁻¹	B2	IRIS	12/03/2004
4,4'-DDT	0.34	IRIS	1	0.34	(mg/kg-day) ⁻¹	B2	IRIS	12/03/2004
Heptachlor epoxide	9.1	IRIS	1	9.1	(mg/kg-day) ⁻¹	B2	IRIS	12/03/2004
Aluminum	N/A	N/A	N/A	N/A	N/A	D	NCEA	6/20/1997
Antimony	N/A	N/A	0.15	N/A	N/A	N/A	N/A	N/A
Arsenic	1.5	IRIS	1	1.5	(mg/kg-day) ⁻¹	A	IRIS	12/03/2004
Chromium (VI)	N/A	N/A	N/A	N/A	N/A	A	IRIS	2/13/2006
Iron	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	0.04	N/A	N/A	D	N/A	N/A

**APPENDIX E TABLE 4C
CANCER TOXICITY DATA – ORAL/DERMAL
SEAD-59 AND SEAD-71**

Chemical of Potential Concern	Oral Cancer Slope Factor	Oral Cancer Slope Factor Source	Oral to Dermal Adjustment Factor (1)	Adjusted Dermal Cancer Slope Factor (2)	Units	Weight of Evidence/ Cancer Guideline Description	Weight of Evidence Source	Date (3) (MM/DD/YY)
Thallium	N/A	N/A	1	N/A	N/A	D	N/A	N/A
Vanadium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

IRIS = Integrated Risk Information System

HEAST= Health Effects Assessment Summary Tables

NCEA = National Center for Environmental Assessment

PPRTV = EPA's Provisional Peer Reviewed Toxicity Values

EPA Group:

A - Human carcinogen

B1 - Probable human carcinogen - indicates that limited human data are available

B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans

C - Possible human carcinogen

D - Not classifiable as a human carcinogen

E - Evidence of noncarcinogenicity

Notes:

(1) Source: USEPA (2004) Supplemental Guidance for Dermal Risk Assessment. Part E of Risk Assessment Guidance for Superfund, Human Health Evaluation Manual (Volume I). Final. A default value of 1 was used if no value was available in the USEPA (2004) document.

(2) Dermal Cancer Slope Factor = Oral Cancer Slope Factor/Adjustment Factor

(3) For IRIS values, the date was the last time IRIS was checked.

For PPRTV and NCEA values, the date was the date of the Region III RBC table, where the PPRTV and NCEA values were cited from.

**APPENDIX E TABLE 4D
CANCER TOXICITY DATA -- INHALATION
SEAD-59 AND SEAD-71**

Chemical of Potential Concern	Unit Risk	Units	Unit Risk Source	Adjustment (1)	Inhalation Cancer Slope Factor	Units	Weight of Evidence/ Cancer Guideline Description	Weight of Evidence Source	Date (2) (MM/DD/YY)
2-Methylnaphthalene	N/A	N/A	N/A	N/A	N/A	N/A	inadequate to assess human carcinogenic potential	IRIS	2/17/2006
4-nitroaniline	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acenaphthylene	N/A	N/A	N/A	N/A	N/A	N/A	D	IRIS	12/03/2004
Benzo(a)anthracene	N/A	N/A	N/A	N/A	N/A	N/A	B2	IRIS	12/03/2004
Benzo(a)pyrene	8.9E-04	(ug/m ³) ⁻¹	NCEA	3500	3.1	(mg/kg-day) ⁻¹	B2	IRIS	10/8/2004
Benzo(b)fluoranthene	N/A	N/A	N/A	N/A	N/A	N/A	B2	IRIS	12/03/2004
Benzo(ghi)perylene	N/A	N/A	N/A	N/A	N/A	N/A	D	IRIS	12/03/2004
Benzo(k)fluoranthene	N/A	N/A	N/A	N/A	N/A	N/A	B2	IRIS	12/03/2004
Carbazole	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chrysene	N/A	N/A	N/A	N/A	N/A	N/A	B2	IRIS	12/03/2004
Dibenz(a,h)anthracene	N/A	N/A	N/A	N/A	N/A	N/A	B2	IRIS	12/03/2004
Indeno(1,2,3-cd)pyrene	N/A	N/A	N/A	N/A	N/A	N/A	B2	IRIS	12/03/2004
Naphthalene	N/A	N/A	N/A	N/A	N/A	N/A	C ⁴	IRIS	2/13/2006
Phenanthrene	N/A	N/A	N/A	N/A	N/A	N/A	D	IRIS	12/03/2004
4,4'-DDE	N/A	N/A	N/A	N/A	N/A	N/A	B2	IRIS	12/03/2004
4,4'-DDT	9.7E-05	(ug/m ³) ⁻¹	IRIS	3500	3.4E-01	(mg/kg-day) ⁻¹	B2	IRIS	12/03/2004
Heptachlor epoxide	2.6E-03	(ug/m ³) ⁻¹	IRIS	3500	9.1E+00	(mg/kg-day) ⁻¹	B2	IRIS	12/03/2004
Aluminum	N/A	N/A	N/A	N/A	N/A	N/A	D	NCEA	6/20/1997
Antimony	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic	4.3E-03	(ug/m ³) ⁻¹	IRIS	3500	1.5E+01	(mg/kg-day) ⁻¹	A	IRIS	12/03/2004
Chromium (VI)	1.2E-02	(ug/m ³) ⁻¹	IRIS	3500	4.2E+01	(mg/kg-day) ⁻¹	A	IRIS	2/13/2006
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	D	IRIS	12/23/2004
Thallium	N/A	N/A	N/A	N/A	N/A	N/A	D	IRIS	12/23/2004
Vanadium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

IRIS = Integrated Risk Information System
HEAST= Health Effects Assessment Summary Tables
NCEA = National Center for Environmental Assessment

Notes:

- (1) The adjustment was based on a 70 kg body weight and 20 m³/day inhalation rate.
(2) For IRIS values, the date was the last time IRIS was checked. For NCEA values, the date was the date of the Region III RBC, where the NCEA was cited from.

EPA Group:
A - Human carcinogen
B1 - Probable human carcinogen - indicates that limited human data are available
B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans
C - Possible human carcinogen
D - Not classifiable as a human carcinogen
E - Evidence of noncarcinogenicity

**APPENDIX E TABLE 5A
CALCULATION OF INTAKE AND RISK FROM THE INGESTION OF SOIL
REASONABLE MAXIMUM EXPOSURE (RME) - SEAD-59 SOIL
SEAD-59 AND SEAD-71 PHASE II RI
Seneca Army Depot Activity**

Equation for Intake (mg/kg-day) =	$\frac{EPC \times IR \times CF \times FI \times EF \times ED \times B}{BW \times AT}$	Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose
Variables (Assumptions for Each Receptor are Listed at the Bottom):		Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor
EPC = Exposure Point Concentration in Soil, mg/kg		
IR = Ingestion Rate		
CF = Conversion Factor	B = Bioavailability	
FI = Fraction Ingested		
	EF = Exposure Frequency	
	ED = Exposure Duration	
	BW = Bodyweight	
	AT = Averaging Time	

Analyte	Oral RfD (mg/kg-day)	Carc. Slope Oral (mg/kg-day) ⁻¹	Bioavailability (unitless)	EPC Surface Soil (mg/kg)	EPC from Total Soils (mg/kg)	Industrial Worker			Construction Worker			Adolescent Trespasser					
						Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk
						(Nc)	(Car)			(Nc)	(Car)			(Nc)	(Car)		
Benzo(a)anthracene	N/A	7.3E-01	1	1.4E+00	1.4E+00	4.79E-07		3E-07	6.46E-08		5E-08	7.51E-09		5E-09			
Benzo(a)pyrene	N/A	7.3E+00	1	1.4E+00	1.4E+00	4.89E-07		4E-06	6.46E-08		5E-07	7.67E-09		6E-08			
Benzo(b)fluoranthene	N/A	7.3E-01	1	1.3E+00	1.2E+00	4.37E-07		3E-07	5.54E-08		4E-08	6.85E-09		5E-09			
Benzo(k)fluoranthene	N/A	7.3E-02	1	1.1E+00	1.2E+00	3.84E-07		3E-08	5.54E-08		4E-09	6.03E-09		4E-10			
Chrysene	N/A	7.3E-03	1	1.4E+00	1.4E+00	4.89E-07		4E-09	6.46E-08		5E-10	7.67E-09		6E-11			
Dibenz(a,h)anthracene	N/A	7.3E+00	1	3.5E-01	4.0E-01	1.22E-07		9E-07	1.85E-08		1E-07	1.92E-09		1E-08			
Indeno(1,2,3-cd)pyrene	N/A	7.3E-01	1	8.8E-01	8.7E-01	3.06E-07		2E-07	4.01E-08		3E-08	4.80E-09		4E-09			
4,4'-DDE	N/A	3.4E-01	1	1.3E-01	1.2E-01	4.54E-08		2E-08	5.54E-09		2E-09	7.12E-10		2E-10			
4,4'-DDT	5.00E-04	3.4E-01	1	1.8E-01	1.7E-01	1.76E-07	6.29E-08	4E-04	5.49E-07	7.84E-09	1E-03	3E-09	1.38E-08	9.86E-10	3E-05		
Aluminum	1.00E+00	N/A	1	1.1E+04	1.1E+04	1.09E-02		1E-02	3.52E-02		4E-02	8.52E-04		9E-04			
Antimony	4.00E-04	N/A	1	1.4E+01	1.3E+01	1.36E-05		3E-02	4.20E-05		1E-01	1.07E-06		3E-03			
Arsenic	3.00E-04	1.5E+00	1	5.8E+00	5.7E+00	5.63E-06	2.01E-06	2E-02	1.84E-05	2.63E-07	6E-02	4E-07	4.41E-07	3.15E-08	1E-03		
Iron	3.00E-01	N/A	1	2.2E+04	2.2E+04	2.14E-02		7E-02	7.02E-02		2E-01	1.68E-03		6E-03			
Manganese	2.33E-02	N/A	1	4.6E+02	4.6E+02	4.52E-04		2E-02	1.49E-03		6E-02	3.54E-05		2E-03			
Thallium	6.47E-04	N/A	1	1.7E-01	2.6E-01	1.66E-07		3E-04	8.40E-07		1E-03	1.30E-08		2E-05			
Vanadium	1.00E-03	N/A	1	2.0E+01	1.9E+01	1.91E-05		2E-02	6.26E-05		6E-02	1.50E-06		1E-03			
Total Hazard Quotient and Cancer Risk:								2E-01	8E-06		6E-01	1E-06		1E-02	1E-07		
						Assumptions for Industrial Worker			Assumptions for Construction Worker			Assumptions for Adolescent Trespasser					
						CF =	1E-06 kg/mg	CF =	1E-06 kg/mg	CF =	1E-06 kg/mg						
						EPC =	EPC Surface Only	EPC =	EPC Surface and Subsurface	EPC =	EPC Surface Only						
						BW =	70 kg	BW =	70 kg	BW =	50 kg						
						IR =	100 mg/day	IR =	330 mg/day	IR =	100 mg/day						
						FI =	1 unitless	FI =	1 unitless	FI =	1 unitless						
						EF =	250 days/year	EF =	250 days/year	EF =	14 days/year						
						ED =	25 years	ED =	1 years	ED =	5 years						
						AT (Nc) =	9,125 days	AT (Nc) =	365 days	AT (Nc) =	1,825 days						
						AT (Car) =	25,550 days	AT (Car) =	25,550 days	AT (Car) =	25,550 days						

Note: Cells in this table were intentionally left blank due to a lack of toxicity data.
NA= Information not available.

**APPENDIX E TABLE 5B
CALCULATION OF INTAKE AND RISK FROM THE INGESTION OF SOIL
REASONABLE MAXIMUM EXPOSURE (RME) - SEAD-59 STOCKPILE SOIL
SEAD-59 AND SEAD-71 PHASE II RI
Seneca Army Depot Activity**

Equation for Intake (mg/kg-day) =	$EPC \times IR \times CF \times FI \times EF \times ED \times B$ $BW \times AT$	Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose
Variables (Assumptions for Each Receptor are Listed at the Bottom):		Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor
EPC = Exposure Point Concentration in Soil, mg/kg	EF = Exposure Frequency	
IR = Ingestion Rate	ED = Exposure Duration	
CF = Conversion Factor	BW = Bodyweight	
B = Bioavailability	AT = Averaging Time	
FI = Fraction Ingested		

Analyte	Oral RfD (mg/kg-day)	Carc. Slope Oral (mg/kg-day) ⁻¹	Bioavailability (unitless)	EPC Stockpile Soil (mg/kg)	Industrial Worker			Construction Worker			Adolescent Trespasser					
					Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk
					(Nc)	(Car)			(Nc)	(Car)			(Nc)	(Car)		
Benzo(a)anthracene	N/A	7.3E-01	1	6.8E+00		2.38E-06		2E-06		3.14E-07		2E-07		5.73E-08		3E-08
Benzo(a)pyrene	N/A	7.3E+00	1	7.9E+00		2.76E-06		2E-05		3.64E-07		3E-06		4.33E-08		3E-07
Benzo(b)fluoranthene	N/A	7.3E-01	1	5.1E+00		1.78E-06		1E-06		2.33E-07		2E-07		2.79E-08		2E-08
Benzo(k)fluoranthene	N/A	7.3E-02	1	6.7E+00		2.34E-06		2E-07		3.09E-07		2E-08		3.67E-08		3E-09
Chrysene	N/A	7.3E-03	1	6.8E+00		2.38E-06		2E-08		3.14E-07		2E-09		3.73E-08		3E-10
Dibenz(a,h)anthracene	N/A	7.3E+00	1	1.2E+00		4.19E-07		3E-06		5.54E-08		4E-07		6.58E-09		5E-08
Indeno(1,2,3-cd)pyrene	N/A	7.3E-01	1	3.5E+00		1.22E-06		9E-07		1.61E-07		1E-07		1.92E-08		1E-08
Aluminum	1.00E+00	N/A	1	1.1E+04	1.06E-02		1E-02		3.49E-02	3E-02		8.28E-04	8E-04			
Antimony	4.00E-04	N/A	1	6.8E+00	6.65E-06		2E-02		2.20E-05	5E-02		5.22E-07	1E-03			
Arsenic	3.00E-04	1.5E+00	1	4.9E+00	4.79E-06	1.71E-06	2E-02	3E-06	1.58E-05	2.26E-07	5E-02	3E-07	3.76E-07	2.68E-08	1E-03	4E-08
Iron	3.00E-01	N/A	1	2.1E+04	2.07E-02		7E-02		6.83E-02	2E-01		1.62E-03	5E-03			
Manganese	2.33E-02	N/A	1	4.9E+02	4.78E-04		2E-02		1.58E-03	7E-02		3.75E-05	2E-03			
Thallium	6.47E-04	N/A	1	5.6E-01	5.48E-07		8E-04		1.81E-06	3E-03		4.30E-08	7E-05			
Vanadium	1.00E-03	N/A	1	1.9E+01	1.90E-05		2E-02		6.26E-05	6E-02		1.49E-06	1E-03			
Total Hazard Quotient and Cancer Risk:							2E-01	3E-05			5E-01	4E-06			1E-02	5E-07
					Assumptions for Industrial Worker			Assumptions for Construction Worker			Assumptions for Adolescent Trespasser					
					CF =	1E-06 kg/mg	CF =	1E-06 kg/mg	CF =	1E-06 kg/mg						
					EPC =	EPC Surface Only	EPC =	EPC Surface and Subsurface	EPC =	EPC Surface Only						
					BW =	70 kg	BW =	70 kg	BW =	50 kg						
					IR =	100 mg/day	IR =	330 mg/day	IR =	100 mg/day						
					FI =	1 unitless	FI =	1 unitless	FI =	1 unitless						
					EF =	250 days/year	EF =	250 days/year	EF =	14 days/year						
					ED =	25 years	ED =	1 years	ED =	5 years						
					AT (Nc) =	9,125 days	AT (Nc) =	365 days	AT (Nc) =	1,825 days						
					AT (Car) =	25,550 days	AT (Car) =	25,550 days	AT (Car) =	25,550 days						

Note: Cells in this table were intentionally left blank due to a lack of toxicity data.
NA= Information not available.

**APPENDIX E TABLE 5C
CALCULATION OF INTAKE AND RISK FROM THE INGESTION OF SOIL
REASONABLE MAXIMUM EXPOSURE (RME) - SEAD-71 (FENCED AREA EXCLUDED)
SEAD-59 AND SEAD-71 PHASE II RI
Seneca Army Depot Activity**

Equation for Intake (mg/kg-day) =	$EPC \times IR \times CF \times FI \times EF \times ED \times B$ $BW \times AT$	Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose
Variables (Assumptions for Each Receptor are Listed at the Bottom)		Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor
EPC = Exposure Point Concentration in Soil, mg/kg		EF = Exposure Frequency
IR = Ingestion Rate		ED = Exposure Duration
CF = Conversion Factor	B = Bioavailability	BW = Bodyweight
FI = Fraction Ingested		AT = Averaging Time

Analyte	Oral RfD (mg/kg-day)	Carc. Slope Oral (mg/kg-day) ⁻¹	Bioavailability (unitless)	EPC Surface Soil (mg/kg)	EPC from Total Soils (mg/kg)	Industrial Worker				Construction Worker				Adolescent Trespasser			
						Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk
						(Nc)	(Car)			(Nc)	(Car)			(Nc)	(Car)		
2-Methylnaphthalene	4.00E-03	N/A	1	1.9E-01	1.9E-01	1.81E-07		5E-05	7E-07	5.97E-07	1E-04	1E-07	1.42E-08	4E-06			
Benzo(a)anthracene	N/A	7.3E-01	1	2.9E+00	5.5E+00	1.01E-06	9.44E-07	7E-06	7E-06	2.54E-07	1.75E-07	2E-07	1.59E-08	1E-07	1E-08	1E-07	
Benzo(a)pyrene	N/A	7.3E+00	1	2.7E+00	3.8E+00	2.7E+00	3.8E+00	4E-07	4E-07	1.01E-07	7E-08	1E-06	1.48E-08	1E-07	6E-09	1E-07	
Benzo(b)fluoranthene	N/A	7.3E-01	1	1.6E+00	2.2E+00	5.59E-07	8.39E-07	6E-08	6E-08	1.38E-07	1E-08	7E-08	8.77E-09	6E-09	1E-09	1E-09	
Benzo(k)fluoranthene	N/A	7.3E-02	1	2.4E+00	3.0E+00	6.64E-07	8.39E-07	5E-09	5E-09	1.20E-07	9E-10	9E-10	1.04E-08	8E-11	8E-11	8E-11	
Chrysene	N/A	7.3E+00	1	7.0E-01	1.5E+00	2.45E-07	5.94E-07	2E-06	2E-06	6.92E-08	5E-07	5E-07	3.84E-09	3E-08	3E-08	3E-08	
Dibenz(a,h)anthracene	N/A	7.3E-01	1	1.7E+00	2.2E+00	5.94E-07	5.94E-07	4E-07	4E-07	1.01E-07	7E-08	7E-08	9.32E-09	7E-09	7E-09	7E-09	
Indeno(1,2,3-cd)pyrene	N/A	7.3E-01	1	1.9E-01	1.9E-01	1.81E-07	1.81E-07	9E-06	9E-06	5.97E-07	3E-05	3E-05	1.42E-08	7E-07	7E-07	7E-07	
Naphthalene	2.00E-02	N/A	1	1.9E-01	1.9E-01	1.81E-07	1.81E-07	1E-02	1E-02	3.92E-02	4E-02	4E-02	9.32E-04	9E-04	9E-04	9E-04	
Aluminum	1.00E+00	N/A	1	1.2E+04	1.2E+04	1.19E-02	1.19E-02	4E-01	4E-01	5.17E-06	1E-02	1E-02	1.23E-07	3E-04	3E-04	3E-04	
Antimony	4.00E-04	N/A	1	1.6E+00	1.6E+00	1.57E-06	1.57E-06	2E-02	2E-02	1.97E-05	2.84E-07	4E-07	4.83E-07	2E-03	5E-08	5E-08	
Arsenic	3.00E-04	1.5E+00	1	6.3E+00	6.1E+00	6.16E-06	2.20E-06	3E-06	3E-06	2.84E-07	4E-07	4E-07	3.45E-08	2E-03	5E-08	5E-08	
Iron	3.00E-01	N/A	1	2.4E+00	2.4E+04	2.36E-02	2.36E-02	8E-02	8E-02	7.67E-02	3E-01	3E-01	1.85E-03	6E-03	6E-03	6E-03	
Manganese	2.33E-02	N/A	1	5.5E+02	5.4E+02	5.36E-04	5.36E-04	2E-02	2E-02	1.74E-03	7E-02	7E-02	4.20E-03	2E-01	2E-01	2E-01	
Thallium	6.47E-04	N/A	1	2.9E-01	2.9E-01	2.84E-07	2.84E-07	4E-04	4E-04	9.36E-07	1E-03	1E-03	2.22E-08	3E-05	3E-05	3E-05	
Vanadium	1.00E-03	N/A	1	1.9E+01	1.9E+01	1.89E-05	1.89E-05	2E-02	2E-02	6.23E-05	6E-02	6E-02	1.48E-06	1E-03	1E-03	1E-03	
Total Hazard Quotient and Cancer Risk:								2E-01	1E-05			5E-01	3E-06			1E-02	2E-07
						Assumptions for Industrial Worker				Assumptions for Construction Worker				Assumptions for Adolescent Trespasser			
						CF =	1E-06 kg/mg	CF =	1E-06 kg/mg	CF =	1E-06 kg/mg						
						EPC =	EPC Surface Only	EPC =	EPC Surface and Subsurface	EPC =	EPC Surface Only						
						BW =	70 kg	BW =	70 kg	BW =	50 kg						
						IR =	100 mg/day	IR =	330 mg/day	IR =	100 mg/day						
						FI =	1 unitless	FI =	1 unitless	FI =	1 unitless						
						EF =	250 days/year	EF =	250 days/year	EF =	14 days/year						
						ED =	25 years	ED =	1 years	ED =	5 years						
						AT (Nc) =	9,125 days	AT (Nc) =	365 days	AT (Nc) =	1,825 days						
						AT (Car) =	25,550 days	AT (Car) =	25,550 days	AT (Car) =	25,550 days						

Note: Cells in this table were intentionally left blank due to a lack of toxicity data
NA = Information not available

**APPENDIX E TABLE 6A
CALCULATION OF ABSORBED DOSE AND RISK FROM DERMAL CONTACT TO SOIL
REASONABLE MAXIMUM EXPOSURE (RME) - SEAD-59 SOIL
SEAD-59 AND SEAD-71 PHASE II RI
Seneca Army Depot Activity**

Equation for Intake (mg/kg-day) = $\frac{EPC \times CF \times SA \times AF \times ABS \times EV \times EF \times ED}{BW \times AT}$	Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor
Variables (Assumptions for Each Receptor are Listed at the Bottom) EPC = Exposure Point Concentration in Soil, mg/kg CF = Conversion Factor SA = Surface Area Contact AF = Adherence Factor ABS = Absorption Factor	EV = Event Frequency EF = Exposure Frequency ED = Exposure Duration BW = Bodyweight AT = Averaging Time

Analyte	Dermal RfD (mg/kg-day)	Carc. Slope Dermal (mg/kg-day) ⁻¹	Absorption Factor* (unitless)	EPC Surface Soil (mg/kg)	EPC from Total Soils (mg/kg)	Industrial Worker			Construction Worker			Adolescent Trespasser					
						Absorbed Dose (mg/kg-day)		Hazard Quotient	Cancer Risk	Absorbed Dose (mg/kg-day)		Hazard Quotient	Cancer Risk	Absorbed Dose (mg/kg-day)		Hazard Quotient	Cancer Risk
						(Nc)	(Car)			(Nc)	(Car)			(Nc)	(Car)		
Benzof(a)anthracene	N/A	7.3E-01	1.3E-01	1.4E+00	1.4E+00		4.11E-07		3E-07		2.52E-08		2E-08		4.01E-09		2.93E-09
Benzof(a)pyrene	N/A	7.3E+00	1.3E-01	1.4E+00	1.4E+00		4.20E-07		3E-06		2.52E-08		2E-07		4.10E-09		2.99E-08
Benzof(b)fluoranthene	N/A	7.3E-01	1.3E-01	1.3E+00	1.2E+00		3.75E-07		3E-07		2.16E-08		2E-08		3.66E-09		2.67E-09
Benzof(k)fluoranthene	N/A	7.3E-02	1.3E-01	1.1E+00	1.2E+00		3.30E-07		2E-08		2.16E-08		2E-09		3.22E-09		2.35E-10
Chrysene	N/A	7.3E-03	1.3E-01	1.4E+00	1.4E+00		4.20E-07		3E-09		2.52E-08		2E-10		4.10E-09		2.99E-11
Dibenz(a,h)anthracene	N/A	7.3E+00	1.3E-01	3.5E-01	4.0E-01		1.05E-07		8E-07		7.20E-09		5E-08		1.02E-09		7.47E-09
Indeno(1,2,3-cd)pyrene	N/A	7.3E-01	1.3E-01	8.8E-01	8.7E-01		2.63E-07		2E-07		1.57E-08		1E-08		2.56E-09		1.87E-09
4,4'-DDE	N/A	3.4E-01	3.0E-02	1.3E-01	1.2E-01		8.99E-09		3E-09		4.98E-10		2E-10		8.78E-11		2.98E-11
4,4'-DDT	5.00E-04	3.4E-01	3.0E-02	1.8E-01	1.7E-01	3.49E-08	1.25E-08	7E-05	4E-09	4.94E-08	7.06E-10	1E-04	2E-10	1.70E-09	1.22E-10	3.40E-06	4.13E-11
Aluminum	1.00E+00	N/A	1.0E-03	1.1E+04	1.1E+04	7.17E-05		7E-05		1.06E-04		1E-04		3.50E-06		3.50E-06	
Antimony	6.00E-05	N/A	1.0E-03	1.4E+01	1.3E+01	8.98E-08		1E-03		1.26E-07		2E-03		4.38E-09		7.30E-05	
Arsenic	3.00E-04	1.5E+00	3E-02	5.8E+00	5.7E+00	1.11E-06	3.98E-07	4E-03	6E-07	1.66E-06	2.37E-08	6E-03	4E-08	5.43E-08	3.88E-09	1.81E-04	5.82E-09
Iron	3.00E-01	N/A	1E-03	2.2E+04	2.2E+04	1.41E-04		5E-04		2.11E-04		7E-04		6.88E-06		2.29E-05	
Manganese	9.33E-04	N/A	1E-03	4.6E+02	4.6E+02	2.98E-06		3E-03		4.48E-06		5E-03		1.46E-07		1.56E-04	
Thallium	6.47E-04	N/A	1E-03	1.7E-01	2.6E-01	1.10E-09		2E-06		2.52E-09		4E-06		5.36E-11		8.28E-08	
Vanadium	2.60E-05	N/A	1E-03	2.0E+01	1.9E+01	1.26E-07		5E-03		1.88E-07		7E-03		6.14E-09		2.36E-04	
Total Hazard Quotient and Cancer Risk:								1E-02	5E-06			2E-02	3E-07			7E-04	5E-08

Assumptions for Industrial Worker		Assumptions for Construction Worker		Assumptions for Adolescent Trespasser	
CF =	1E-06 kg/mg	CF =	1E-06 kg/mg	CF =	1E-06 kg/mg
CS =	EPC Surface Only	EPC =	EPC Surface and Subsurface	EPC =	EPC Surface Only
BW =	70 kg	BW =	70 kg	BW =	50 kg
SA =	3,300 cm ²	SA =	3,300 cm ²	SA =	5,867 cm ²
AF =	0.2 mg/cm ² -event	AF =	0.3 mg/cm ² -event	AF =	0.07 mg/cm ² -event
EV =	1 event/day	EV =	1 event/day	EV =	1 event/day
EF =	250 days/year	EF =	250 days/year	EF =	14 days/year
ED =	25 years	ED =	1 years	ED =	5 years
AT (Nc) =	9,125 days	AT (Nc) =	365 days	AT (Nc) =	1,825 days
AT (Car) =	25,550 days	AT (Car) =	25,550 days	AT (Car) =	25,550 days

Note: Cells in this table were intentionally left blank due to a lack of toxicity data.

N/A = Information not available.

* Absorption factors from Exhibit J-4 of USEPA (2004) Supplemental Guidance for Dermal Risk Assessment, Part E of Risk Assessment Guidance for Superfund, Human Health Evaluation Manual (Volume I).

Absorption factors for antimony and iron were assumed to be 0.001 in accordance with the USEPA Region 4 (2000)

Supplemental Guidance to RAGS - Region 4 Bulletins, Human Health Risk Assessment Bulletins (<http://www.epa.gov/region4/waste/ots/healthbul.htm>).

**APPENDIX E TABLE 6B
CALCULATION OF ABSORBED DOSE AND RISK FROM DERMAL CONTACT TO SOIL
REASONABLE MAXIMUM EXPOSURE (RME) - SEAD-59 STOCKPILE SOIL
SEAD-59 AND SEAD-71 PHASE II RI
Seneca Army Depot Activity**

Equation for Intake (mg/kg-day) =	$EPC \times CF \times SA \times AF \times ABS \times EV \times EF \times ED$ BW x AT
Variables (Assumptions for Each Receptor are Listed at the Bottom)	Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor
EPC = Exposure Point Concentration in Soil, mg/kg	EV = Event Frequency
CF = Conversion Factor	EF = Exposure Frequency
SA = Surface Area Contact	ED = Exposure Duration
AF = Adherence Factor	BW = Bodyweight
ABS = Absorption Factor	AT = Averaging Time

Analyte	Dermal RfD (mg/kg-day)	Carc. Slope Dermal (mg/kg-day)-1	Absorption Factor* (unitless)	EPC Stockpile Soil (mg/kg)	Industrial Worker			Construction Worker			Adolescent Trespasser					
					Absorbed Dose (mg/kg-day)		Hazard Quotient	Cancer Risk	Absorbed Dose (mg/kg-day)		Hazard Quotient	Cancer Risk	Absorbed Dose (mg/kg-day)		Hazard Quotient	Cancer Risk
					(Nc)	(Car)			(Nc)	(Car)			(Nc)	(Car)		
Benzo(a)anthracene	N/A	7.3E-01	1.3E-01	6.8E+00		2.04E-06		1E-06		1.22E-07		9E-08		1.45E-08		
Benzo(a)pyrene	N/A	7.3E+00	1.3E-01	7.9E+00		2.37E-06		2E-05		1.42E-07		1E-06		1.69E-07		
Benzo(b)fluoranthene	N/A	7.3E-01	1.3E-01	5.1E+00		1.53E-06		1E-06		9.17E-08		7E-08		1.09E-08		
Benzo(k)fluoranthene	N/A	7.3E-02	1.3E-01	6.7E+00		2.01E-06		1E-07		1.21E-07		9E-09		1.43E-09		
Chrysene	N/A	7.3E-03	1.3E-01	6.8E+00		2.04E-06		1E-08		1.22E-07		9E-10		1.45E-10		
Dibenz(a,h)anthracene	N/A	7.3E+00	1.3E-01	1.2E+00		3.60E-07		3E-06		2.16E-08		2E-07		2.56E-08		
Indeno(1,2,3-cd)pyrene	N/A	7.3E-01	1.3E-01	3.5E+00		1.05E-06		8E-07		6.30E-08		5E-08		7.47E-09		
Aluminum	1.00E+00	N/A	1.0E-03	1.1E+04	6.97E-05		7E-05		1.05E-04		1E-04		3.40E-06	3.40E-06		
Antimony	6.00E-05	N/A	1.0E-03	6.8E+00	4.39E-08		7E-04		6.59E-08		1E-03		2.14E-09	3.57E-05		
Arsenic	3.00E-04	1.5E+00	3.0E-02	4.9E+00	9.49E-07	3.39E-07	3E-03	5E-07	1.42E-06	2.03E-08	5E-03	3E-08	4.63E-08	1.54E-04		
Iron	3.00E-01	N/A	1.0E-03	2.1E+04	1.37E-04		5E-04		2.05E-04		7E-04		6.66E-06	2.22E-05		
Manganese	9.33E-04	N/A	1E-03	4.9E+02	3.16E-06		3E-03		4.74E-06		5E-03		1.54E-07	1.65E-04		
Thallium	6.47E-04	N/A	1E-03	5.6E-01	3.62E-09		6E-06		5.42E-09		8E-06		1.76E-10	2.73E-07		
Vanadium	2.60E-05	N/A	1E-03	1.9E+01	1.25E-07		5E-03		1.88E-07		7E-03		6.11E-09	2.35E-04		
Total Hazard Quotient and Cancer Risk:							1E-02	2E-05			2E-02	1E-06		6E-04	2E-07	
					Assumptions for Industrial Worker			Assumptions for Construction Worker			Assumptions for Adolescent Trespasser					
					CF =	1E-06 mg/mg			CF =	1E-06 kg/mg			CF =	1E-06 kg/mg		
					CS =	EPC Surface Only			EPC =	EPC Surface and Subsurface			EPC =	EPC Surface Only		
					BW =	70 kg			BW =	70 kg			BW =	50 kg		
					SA =	3,300 cm ²			SA =	3,300 cm ²			SA =	5,867 cm ²		
					AF =	0.2 mg/cm ² -event			AF =	0.3 mg/cm ² -event			AF =	0.07 mg/cm ² -event		
					EV =	1 event/day			EV =	1 event/day			EV =	1 event/day		
					EF =	250 days/year			EF =	250 days/year			EF =	14 days/year		
					ED =	25 years			ED =	1 years			ED =	5 years		
					AT (Nc) =	9,125 days			AT (Nc) =	365 days			AT (Nc) =	1,825 days		
					AT (Car) =	25,550 days			AT (Car) =	25,550 days			AT (Car) =	25,550 days		

Note: Cells in this table were intentionally left blank due to a lack of toxicity data.

N/A= Information not available

* Absorption factors from Exhibit 3-4 of USEPA (2004) Supplemental Guidance for Dermal Risk Assessment, Part E of Risk Assessment Guidance for Superfund, Human Health Evaluation Manual (Volume I)

Absorption factors for antimony and iron were assumed to be 0.001 in accordance with the USEPA Region 4 (2000)

Supplemental Guidance to RAGS-Region 4 Bulletins, Human Health Risk Assessment Bulletins (<http://www.epa.gov/region4/waste/ots/healthul.htm>).

**APPENDIX E TABLE 6C
CALCULATION OF ABSORBED DOSE AND RISK FROM DERMAL CONTACT TO SOIL
REASONABLE MAXIMUM EXPOSURE (RME) - SEAD-71 (FENCED AREA EXCLUDED)
SEAD-59 AND SEAD-71 PHASE II RI
Seneca Army Depot Activity**

Equation for Intake (mg/kg-day) = $EPC \times CF \times SA \times AF \times ABS \times EV \times EF \times ED$ BW x AT	Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose
Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor	
Variables (Assumptions for Each Receptor are Listed at the Bottom):	
EPC = Chemical Concentration in Soil, mg/kg	EV = Event Frequency
CF = Conversion Factor	EF = Exposure Frequency
SA = Surface Area Contact	ED = Exposure Duration
AF = Adherence Factor	BW = Bodyweight
ABS = Absorption Factor	AT = Averaging Time

Analyte	Dermal RfD (mg/kg-day)	Carc. Slope Dermal (mg/kg-day) ⁻¹	Absorption Factor* (unitless)	EPC Surface Soil (mg/kg)	EPC from Total Soils (mg/kg)	Industrial Worker			Construction Worker			Adolescent Trespasser					
						Absorbed Dose (mg/kg-day)		Hazard Quotient	Cancer Risk	Absorbed Dose (mg/kg-day)		Hazard Quotient	Cancer Risk	Absorbed Dose (mg/kg-day)		Hazard Quotient	Cancer Risk
						(Nc)	(Car)			(Nc)	(Car)			(Nc)	(Car)		
2-Methylnaphthalene	4.00E-03	N/A	1.3E-01	1.9E-01	1.9E-01	1.55E-07		4E-05		2.33E-07	6E-05		7.58E-09	1.89E-06			
Benzo(a)anthracene	N/A	7.3E-01	1.3E-01	2.9E+00	5.5E+00		8.70E-07	6E-07		9.89E-08	7E-08		8.48E-09	6.19E-09			
Benzo(a)pyrene	N/A	7.3E+00	1.3E-01	2.7E+00	3.8E+00		8.10E-07	6E-06		6.84E-08	5E-07		7.90E-09	5.77E-08			
Benzo(b)fluoranthene	N/A	7.3E-01	1.3E-01	1.6E+00	2.2E+00		4.80E-07	4E-07		3.96E-08	3E-08		4.68E-09	3.42E-09			
Benzo(k)fluoranthene	N/A	7.3E-02	1.3E-01	2.4E+00	3.0E+00		7.20E-07	5E-08		5.40E-08	4E-09		7.02E-09	5.13E-10			
Chrysene	N/A	7.3E-03	1.3E-01	1.9E+00	2.6E+00		5.70E-07	4E-09		4.68E-08	3E-10		5.56E-09	4.06E-11			
Dibenz(a,h)anthracene	N/A	7.3E+00	1.3E-01	7.0E-01	1.5E+00		2.10E-07	2E-06		2.70E-08	2E-07		2.05E-09	1.49E-08			
Indeno(1,2,3-cd)pyrene	N/A	7.3E-01	1.3E-01	1.7E+00	2.2E+00		5.10E-07	4E-07		3.96E-08	3E-08		4.97E-09	3.63E-09			
Naphthalene	2.00E-02	N/A	1.3E-01	1.9E-01	1.9E-01	1.55E-07		8E-06		2.33E-07	1E-05		7.58E-09	3.79E-07			
Aluminum	1.00E+00	N/A	1E-03	1.2E+04	1.2E+04	7.85E-05		8E-05		1.18E-04	1E-04		3.83E-06	3.83E-06			
Antimony	6.00E-05	N/A	1E-03	1.6E+00	1.6E+00	1.03E-08		2E-04		1.55E-08	3E-04		5.04E-10	8.40E-06			
Arsenic	3.00E-04	1.5E+00	3E-02	6.3E+00	6.1E+00	1.22E-06	4.36E-07	4E-03	7E-07	1.77E-06	6E-03	4E-08	5.95E-08	4.25E-09	6.38E-09		
Iron	3.00E-01	N/A	1E-03	2.4E+04	2.4E+04	1.56E-04		5E-04		2.30E-04	8E-04		7.60E-06	2.53E-05			
Manganese	9.33E-04	N/A	1E-03	5.5E+02	5.4E+02	3.54E-06		4E-03		5.22E-06	6E-03		1.72E-07	1.85E-04			
Thallium	6.47E-04	N/A	1E-03	2.9E-01	2.9E-01	1.87E-09		3E-06		2.81E-09	4E-06		9.14E-11	1.41E-07			
Vanadium	2.60E-05	N/A	1E-03	1.9E+01	1.9E+01	1.25E-07		5E-03		1.87E-07	7E-03		6.08E-09	2.34E-04			
Total Hazard Quotient and Cancer Risk:								1E-02	1E-05		2E-02	9E-07		7E-04	9E-08		
						Assumptions for Industrial Worker			Assumptions for Construction Worker			Assumptions for Adolescent Trespasser					
						CF =	1E-06 kg/mg	CF =	1E-06 kg/mg	CF =	1E-06 kg/mg						
						CS =	EPC Surface Only	EPC =	EPC Surface and Subsurface	EPC =	EPC Surface Only						
						BW =	70 kg	BW =	70 kg	BW =	50 kg						
						SA =	3,300 cm ²	SA =	3,300 cm ²	SA =	5,867 cm ²						
						AF =	0.2 mg/cm ² -event	AF =	0.3 mg/cm ² -event	AF =	0.07 mg/cm ² -event						
						EV =	1 event/day	EV =	1 event/day	EV =	1 event/day						
						EF =	250 days/year	EF =	250 days/year	EF =	14 days/year						
						ED =	25 years	ED =	1 years	ED =	5 years						
						AT (Nc) =	9,125 days	AT (Nc) =	365 days	AT (Nc) =	1,825 days						
						AT (Car) =	25,550 days	AT (Car) =	25,550 days	AT (Car) =	25,550 days						

Note: Cells in this table were intentionally left blank due to a lack of toxicity data.

NA = Information not available.

* Absorption factors from Exhibit 3-4 of USEPA (2004) Supplemental Guidance for Dermal Risk Assessment, Part E of Risk Assessment Guidance for Superfund, Human Health Evaluation Manual (Volume I).

Absorption factor for iron was assumed to be 0.001 in accordance with the USEPA Region 4 (2000)

Supplemental Guidance to RAGS: Region 4 Bulletins, Human Health Risk Assessment Bulletins (<http://www.epa.gov/region4/waste/ots/healthul.htm>).

**APPENDIX E TABLE 7A
CALCULATION OF INTAKE AND RISK FROM INHALATION OF DUST IN AMBIENT AIR
REASONABLE MAXIMUM EXPOSURE (RME) - SEAD-59 SOIL
SEAD-59 AND SEAD-71 PHASE II RI
Seneca Army Depot Activity**

Equation for Intake (mg/kg-day) = $\frac{EPC \times IR \times EF \times ED}{BW \times AT}$	Equation for Hazard Quotient = Chronic Daily Intake (Nc) / Reference Dose
Variables (Assumptions for Each Receptor are Listed at the Bottom) EPC = EPC in Air, mg/m ³ IR = Inhalation Rate EF = Exposure Frequency	Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor
ED = Exposure Duration BW = Bodyweight AT = Averaging Time	

Analyte	Inhalation RfD (mg/kg-day)	Carc. Slope Inhalation (mg/kg-day) ⁻¹	Air EPC from Surface Soil (mg/m ³)	Air EPC from Total Soils (mg/m ³)	Industrial Worker			Construction Worker			Adolescent Trespasser					
					Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk
					(Nc)	(Car)			(Nc)	(Car)			(Nc)	(Car)		
Benzo(a)anthracene	N/A	N/A	2.3E-08	1.3E-06												
Benzo(a)pyrene	N/A	3.10E+00	2.4E-08	1.3E-06		1.66E-09		5E-09		3.73E-09		1E-08		2.09E-12		6E-12
Benzo(b)fluoranthene	N/A	N/A	2.1E-08	1.1E-06												
Benzo(k)fluoranthene	N/A	N/A	1.9E-08	1.1E-06												
Chrysene	N/A	N/A	2.4E-08	1.3E-06												
Dibenz(a,h)anthracene	N/A	N/A	6.0E-09	3.8E-07												
Indeno(1,2,3-cd)pyrene	N/A	N/A	1.5E-08	8.3E-07												
4,4'-DDE	N/A	N/A	2.2E-09	1.1E-07												
4,4'-DDT	N/A	3.40E-01	3.1E-09	1.6E-07		2.14E-10		7E-11		4.53E-10		2E-10		2.68E-13		9E-14
Aluminum	1.43E-03	N/A	1.9E-04	1.0E-02	3.69E-05		3E-02		2.03E-03		1E+00		2.32E-07		2E-04	
Antimony	N/A	N/A	2.4E-07	1.2E-05												
Arsenic	N/A	1.51E+01	9.8E-08	5.4E-06		6.83E-09		1E-07		1.52E-08		2E-07		8.57E-12		1E-10
Iron	N/A	N/A	3.7E-04	2.1E-02												
Manganese	1.43E-05	N/A	7.9E-06	4.4E-04	1.54E-06		1E-01		8.62E-05		6E+00		9.64E-09		7E-04	
Thallium	N/A	N/A	2.9E-09	2.5E-07												
Vanadium	N/A	N/A	3.3E-07	1.9E-05												
Total Hazard Quotient and Cancer Risk:							1E-01	1E-07			7E+00	2E-07			8E-04	1E-10
					Assumptions for Industrial Worker			Assumptions for Construction Worker			Assumptions for Adolescent Trespasser					
					CA =	EPC Surface Only	CA =	EPC Surface and Sub-Surface	CA =	EPC Surface Only						
					BW =	70 kg	BW =	70 kg	BW =	50 kg						
					IR =	20 m ³ /day	IR =	20 m ³ /day	IR =	16 m ³ /day						
					EF =	250 days/year	EF =	250 days/year	EF =	14 days/year						
					ED =	25 years	ED =	1 year	ED =	5 years						
					AT (Nc) =	9,125 days	AT (Nc) =	365 days	AT (Nc) =	1,825 days						
					AT (Car) =	25,550 days	AT (Car) =	25,550 days	AT (Car) =	25,550 days						

Note: Cells in this table were intentionally left blank due to a lack of toxicity data
NA = information not available

**APPENDIX E TABLE 7B
 CALCULATION OF INTAKE AND RISK FROM INHALATION OF DUST IN AMBIENT AIR
 REASONABLE MAXIMUM EXPOSURE (RME) - SEAD-59 STOCKPILE SOIL
 SEAD-59 AND SEAD-71 PHASE II RI
 Seneca Army Depot Activity**

Equation for Intake (mg/kg-day) = $\frac{CA \times IR \times EF \times ED}{BW \times AT}$	Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose
Variables (Assumptions for Each Receptor are Listed at the Bottom) CA = Chemical Concentration in Air, Calculated from Air EPC Data IR = Inhalation Rate EF = Exposure Frequency	Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor ED = Exposure Duration BW = Bodyweight AT = Averaging Time

Analyte	Inhalation RfD (mg/kg-day)	Carc. Slope Inhalation (mg/kg-day) ¹	Air EPC from Stockpile Soil (mg/m ³)	Industrial Worker				Construction Worker			Adolescent Trespasser				
				Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk
				(Nc)	(Car)			(Nc)	(Car)			(Nc)	(Car)		
Benzo(a)anthracene	N/A	N/A	1.2E-07												
Benzo(a)pyrene	N/A	3.10E+00	1.3E-07	9.39E-09		3E-08		3.75E-10		1E-09		1.18E-11		4E-11	
Benzo(b)fluoranthene	N/A	N/A	8.7E-08												
Benzo(k)fluoranthene	N/A	N/A	1.1E-07												
Chrysene	N/A	N/A	1.2E-07												
Dibenz(a,h)anthracene	N/A	N/A	2.0E-08												
Indeno(1,2,3-cd)pyrene	N/A	N/A	6.0E-08												
Aluminum	1.43E-03	N/A	1.8E-04	3.59E-05		3E-02		3.59E-05		3E-02		2.25E-07		2E-04	
Antimony	N/A	N/A	1.2E-07												
Arsenic	N/A	1.51E+01	8.3E-08	5.82E-09		9E-08		2.33E-10		4E-09		7.30E-12		1E-10	
Iron	N/A	N/A	3.6E-04												
Manganese	1.43E-05	N/A	8.3E-06	1.63E-06		1E-01		1.63E-06		1E-01		1.02E-08		7E-04	
Thallium	N/A	N/A	9.5E-09												
Vanadium	N/A	N/A	3.3E-07												
Total Hazard Quotient and Cancer Risk:						1E-01	1E-07			1E-01	5E-09			9E-04	1E-10
				Assumptions for Industrial Worker				Assumptions for Construction Worker			Assumptions for Adolescent Trespasser				
				CA = EPC Stockpile		CA = EPC Stockpile		CA = EPC Stockpile		CA = EPC Stockpile		CA = EPC Stockpile		CA = EPC Stockpile	
				BW = 70 kg		BW = 70 kg		BW = 70 kg		BW = 50 kg		BW = 50 kg		BW = 50 kg	
				IR = 20 m ³ /day		IR = 20 m ³ /day		IR = 20 m ³ /day		IR = 1.6 m ³ /day		IR = 1.6 m ³ /day		IR = 1.6 m ³ /day	
				EF = 250 days/year		EF = 250 days/year		EF = 250 days/year		EF = 14 days/year		EF = 14 days/year		EF = 14 days/year	
				ED = 25 years		ED = 1 year		ED = 1 year		ED = 5 years		ED = 5 years		ED = 5 years	
				AT (Nc) = 9,125 days		AT (Nc) = 365 days		AT (Nc) = 365 days		AT (Nc) = 1,825 days		AT (Nc) = 1,825 days		AT (Nc) = 1,825 days	
				AT (Car) = 25,550 days		AT (Car) = 25,550 days		AT (Car) = 25,550 days		AT (Car) = 25,550 days		AT (Car) = 25,550 days		AT (Car) = 25,550 days	

Note: Cells in this table were intentionally left blank due to a lack of toxicity data
 NA= Information not available

**APPENDIX E TABLE 7C
 CALCULATION OF INTAKE AND RISK FROM INHALATION OF DUST IN AMBIENT AIR
 REASONABLE MAXIMUM EXPOSURE (RME) - SEAD-71 (FENCED AREA EXCLUDED)
 SEAD-59 AND SEAD-71 PHASE II RI
 Seneca Army Depot Activity**

Equation for Intake (mg/kg-day) = $\frac{EPC \times IR \times EF \times ED}{BW \times AT}$	Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose
Variables (Assumptions for Each Receptor are Listed at the Bottom) EPC = Exposure Point Concentration in Air, mg/m ³ IR = Inhalation Rate EF = Exposure Frequency	Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor
ED = Exposure Duration BW = Bodyweight AT = Averaging Time	

Analyte	Inhalation RID (mg/kg-day)	Carc. Slope Inhalation (mg/kg-day) ⁻¹	Air EPC from Surface Soil (mg/m ³)	Air EPC from Total Soils (mg/m ³)	Industrial Worker			Construction Worker			Adolescent Trespasser					
					Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk
					(Nc)	(Car)			(Nc)	(Car)			(Nc)	(Car)		
2-Methylnaphthalene	N/A	N/A	#N/A	1.8E-07												
Benzo(a)anthracene	N/A	N/A	4.9E-08	5.2E-06												
Benzo(a)pyrene	N/A	3.10E+00	4.6E-08	3.6E-06		3.21E-09		1E-08		1.01E-08		3E-08		4.02E-12		1E-11
Benzo(b)fluoranthene	N/A	N/A	2.7E-08	2.1E-06												
Benzo(k)fluoranthene	N/A	N/A	4.1E-08	2.9E-06												
Chrysene	N/A	N/A	3.2E-08	2.5E-06												
Dibenz(a,h)anthracene	N/A	N/A	1.2E-08	1.4E-06												
Indeno(1,2,3-cd)pyrene	N/A	N/A	2.9E-08	2.1E-06												
Naphthalene	8.57E-04	N/A	3.1E-09	1.8E-07	6.15E-10		7E-07		3.45E-08		4E-05		3.86E-12		5E-09	
Aluminum	1.43E-03	N/A	2.1E-04	1.2E-02	4.04E-05		3E-02		2.27E-03		2E+00		2.54E-07		2E-04	
Antimony	N/A	N/A	2.7E-08	1.5E-06												
Arsenic	N/A	1.51E+01	1.1E-07	5.8E-06		7.49E-09		1E-07		1.63E-08		2E-07		9.39E-12		1E-10
Iron	N/A	N/A	4.1E-04	2.3E-02												
Manganese	1.43E-05	N/A	9.3E-06	5.1E-04	1.82E-06		1E-01		1.01E-04		7E+00		1.14E-08		8E-04	
Thallium	N/A	N/A	4.9E-09	2.8E-07												
Vanadium	N/A	N/A	3.3E-07	1.8E-05												
Total Hazard Quotient and Cancer Risk:							2E-01	1E-07			9E+00	3E-07		1E-03	2E-10	
					Assumptions for Industrial Worker			Assumptions for Construction Worker			Assumptions for Adolescent Trespasser					
					CA =	EPC Surface Only		CA =	EPC Surface and Sub-Surface		CA =	EPC Surface Only				
					BW =	70 kg		BW =	70 kg		BW =	50 kg				
					IR =	20 m ³ /day		IR =	20 m ³ /day		IR =	1.6 m ³ /day				
					EF =	250 days/year		EF =	250 days/year		EF =	14 days/year				
					ED =	25 years		ED =	1 year		ED =	5 years				
					AT (Nc) =	9,125 days		AT (Nc) =	365 days		AT (Nc) =	1,825 days				
					AT (Car) =	25,550 days		AT (Car) =	25,550 days		AT (Car) =	25,550 days				

Note: Cells in this table were intentionally left blank due to a lack of toxicity data
 N/A = Information not available

**APPENDIX E TABLE 8A
CALCULATION OF ABSORBED DOSE AND RISK FROM DERMAL CONTACT TO GROUNDWATER
REASONABLE MAXIMUM EXPOSURE (RME) - SEAD-59
SEAD-59 AND SEAD-71 PHASE II RI
Seneca Army Depot Activity**

Equation for Dermal (mg/kg-day) = $\frac{DA \times SA \times EF \times ED \times EV}{BW \times AT}$	Equation for Absorbed Dose per Event (DA): For inorganics: $DA = K_p \times EPC \times t_{event} \times CF$	
Variables (Assumptions for Each Receptor are Listed at the Bottom): DA = Absorbed Dose per Event, mg/cm ² -event SA = Surface Area Contact EF = Exposure Frequency EV = Event Frequency	K_p = Permeability Coefficient, cm/hr EPC = EPC in Groundwater, mg/L CF = Conversion Factor, 10 ⁻³ L/cm ³	Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor

Analyte	Dermal RfD (mg/kg-day)	Carc. Slope Dermal (mg/kg-day) ⁻¹	Permeability Coefficient K_p (cm/hr)	t_{event} (hr/event)	EPC Ground Water (mg/L)	Absorbed Dose/Event (mg/cm ² -event)	Industrial Worker			Construction Worker			Adolescent Trespasser					
							Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk
							(Nc)	(Car)			(Nc)	(Car)			(Nc)	(Car)		
Metals							Dermal Contact to Ground Water Not Applicable for Industrial Worker						Dermal Contact to Ground Water Not Applicable for Adolescent Trespasser					
Antimony	4 E-04	N/A	1 E-03	5 E-01	9 E-03	4.30E-09	4.19E-08			1.39E-10	1E-04							
Arsenic	3 E-04	1.5E+00	1 E-03	5 E-01	2 E-03	1.00E-09	9.75E-09			3E-05	2E-10							
Iron	3 E-01	N/A	1 E-03	5 E-01	4.E+00	1.97E-06	1.92E-05			6E-05								
Manganese	2 E-02	N/A	1 E-03	5 E-01	8 E-01	3.90E-07	3.80E-06			2E-04								
Thallium	6 E-04	N/A	1 E-03	5 E-01	4 E-03	2.00E-09	1.95E-08			3E-05								
Vanadium	1 E-03	N/A	1 E-03	5 E-01	5 E-03	2.63E-09	2.56E-08			3E-05								
Total Hazard Quotient and Cancer Risk:										4E-04	2E-10							
							Assumptions for Construction Worker											
							BW =	70 kg										
							SA =	2,490 cm ²										
							EV =	1 event/day										
							EF =	100 days/year										
							ED =	1 years										
							t_{event} =	0.5 hr/event										
							AT (Nc) =	365 days										
							AT (Car) =	25,550 days										

Note: Cells in this table were intentionally left blank due to a lack of toxicity data
NA= Information not available

**APPENDIX E TABLE 8B
CALCULATION OF ABSORBED DOSE AND RISK FROM DERMAL CONTACT TO GROUNDWATER
REASONABLE MAXIMUM EXPOSURE (RME) - SEAD-71 ENCLAVE FENCED AREA
SEAD-59 AND SEAD-71 PHASE II RI
Seneca Army Depot Activity**

Equation for Dermal (mg/kg-day) = $\frac{DA \times SA \times EF \times ED \times EV}{BW \times AT}$	Equation for Absorbed Dose per Event (DA) = $DA = K_p \times EPC \times C_w \times C$	K_p = Permeability Coefficient, cm/hr EPC = EPC to Groundwater, mg/L C = Conversion Factor, 10^3 L/cm ³
Variables (Assumptions for Each Row are Listed at the Bottom)	For organics If $K_{ow} \leq 1^*$, then $DA_{org} = 2 \times FA \times K_p \times C_w \times (6 \times \tau_{res} \times V_{res}) / \pi^2$	Equation for Hazard Quotient = Chronic Daily Intake (CDI) / Reference Dose
DA = Absorbed Dose per Event SA = Surface Area Contact EF = Exposure Frequency EV = Event Frequency	For organics If $K_{ow} > 1^*$, then $DA_{org} = FA \times K_p \times C_w \times [(V_{res} / (1 + B)) + 2 \times \tau_{res} \times (1 + 3B + 3B^2) / (1 + 4B^2)]$	Equation for Cancer Risk = Chronic Daily Intake (CDI) x Slope 1 factor
ED = Exposure Duration BW = Body weight AT = Averaging Time	B = Dimensionless ratio of the permeability coefficient of a compound through the stratum corneum relative to its permeability coefficient across the viable epidermis (vc) (dimensionless) FA = Fraction absorbed water (dimensionless)	

Analyte	Dermal RfD (mg/kg-day)	Carc. Slope Dermal (mg/kg-day) ⁻¹	Permeability Coefficient K_p (cm/hr)	τ_{res} (hr/event)	Fraction Absorbed Water	B	τ^* (hour)	EPC Ground Water (mg/L)	Absorbed Dose/Event (mg-cm ² /event)	Industrial Worker			Construction Worker			Adolescent Trespasser					
										Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk
										(Ne)	(Car)			(Ne)	(Car)			(Ne)	(Car)		
Semi-volatile Organic 4-nitrobenzine	3.1E-03	2.0E+02	2.7E-03	0.6	1.0	1.3E-02	3.0E+02	2.0E+01	8.1E-05	Dermal Contact to Ground Water			7.87E-04	1.12E-05	3E-01	2E-07	Dermal Contact to Ground Water				
Metals										Dermal Contact to Ground Water			Dermal Contact to Ground Water			Not Applicable					
Aluminum	1.1E+01	N/A	1.0E-03					2.7E-03	1.4E-09	Not Applicable			Not Applicable			Not Applicable					
Antimony	6.1E-05	N/A	1.0E-03					2.7E-03	1.4E-09	Not Applicable			Not Applicable			Not Applicable					
Arsenic	3.1E-04	1.5E+01	1.0E-03					6.5E-03	3.1E-09	Not Applicable			Not Applicable			Not Applicable					
Chromium	8.1E-05	N/A	1.0E-03					2.7E-03	1.4E-09	Not Applicable			Not Applicable			Not Applicable					
Cadmium	5.1E-01	N/A	1.0E-03					2.7E-03	1.4E-09	Not Applicable			Not Applicable			Not Applicable					
Manganese	9.1E-04	N/A	1.0E-03					3.5E+01	1.8E-05	Not Applicable			Not Applicable			Not Applicable					
Thallium	6.1E-04	N/A	1.0E-03					1.7E-02	8.0E-09	Not Applicable			Not Applicable			Not Applicable					
Vanadium	3.1E-05	N/A	1.0E-03					1.7E-02	8.0E-09	Not Applicable			Not Applicable			Not Applicable					
Total Hazard Quotient and Cancer Risk:													4E-01			7E-10					
													Assumptions for Construction Worker								
													BW = 70 kg								
													SA = 2,401 cm ²								
													E/Vo = 1 event/day								
													EF = 100 d/yr								
													ED = 1 years								
													τ_{res} = 0.5 hr/event								
													AT (Ne) = 365 days								
													AT (Car) = 21,550 days								

Note: Cells in this table were intentionally left blank due to a lack of toxicity data
NA = Information not available

**APPENDIX E TABLE 9A
CALCULATION OF INTAKE AND RISK FROM THE INTAKE OF GROUNDWATER
REASONABLE MAXIMUM EXPOSURE (RME) - SEAD-59
SEAD-59 AND SEAD-71 PHASE II RI
Seneca Army Depot Activity**

Equation for Intake (mg/kg-day) = $\frac{EPC \times IR \times EF \times ED}{BW \times AT}$	Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose
Variables (Assumptions for Each Receptor are Listed at the Bottom): EPC = Exposure Point Concentration in Groundwater (mg/L) IR = Intake Rate EF = Exposure Frequency	Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor
ED=Exposure Duration BW=Bodyweight AT=Averaging Time	

Analyte	Oral RfD (mg/kg-day)	Carc. Slope Oral (mg/kg-day)-1	EPC Groundwater (mg/liter)	Industrial Worker			Construction Worker			Adolescent Trespasser					
				Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk
				(Nc)	(Car)			(Nc)	(Car)			(Nc)	(Car)		
Antimony	4.E-04	N/A	0.0086	8.4E-05	3.0E-05	2E-01		8.4E-05	1.2E-06	2E-01		1.3E-05	9.4E-07	3E-02	
Arsenic	3.E-04	1.5E+00	0.002	2.0E-05	7.0E-06	7E-02	1E-05	2.0E-05	2.8E-07	7E-02	4E-07	3.1E-06	2.2E-07	1E-02	3E-07
Iron	3.E-01	N/A	3.94	3.9E-02	1.4E-02	1E-01		3.9E-02	5.5E-04	1E-01		6.0E-03	4.3E-04	2E-02	
Manganese	2.E-02	N/A	0.78	7.6E-03	2.7E-03	3E-01		7.6E-03	1.1E-04	3E-01		1.2E-03	8.5E-05	5E-02	
Thallium	6.E-04	N/A	0.004	3.9E-05	1.4E-05	6E-02		3.9E-05	5.6E-07	6E-02		6.1E-06	4.4E-07	9E-03	
Vanadium	1.E-03	N/A	0.00526	5.1E-05	1.8E-05	5E-02		5.1E-05	7.4E-07	5E-02		8.1E-06	5.8E-07	8E-03	
Total Hazard Quotient and Cancer Risk:						8E-01	1E-05			8E-01	4E-07			1E-01	3E-07
				Assumptions for Industrial Worker			Assumptions for Construction Worker			Assumptions for Adolescent Trespasser					
				BW =	70 kg	BW =	70 kg	BW =	50 kg						
				IR =	1 liters/day	IR =	1 liters/day	IR =	2.0 liters/day						
				EF =	250 days/year	EF =	250 days/year	EF =	14 days/year						
				ED =	25 years	ED =	1 years	ED =	5 years						
				AT (Nc) =	9,125 days	AT (Nc) =	365 days	AT (Nc) =	1,825 days						
				AT (Car) =	25,550 days	AT (Car) =	25,550 days	AT (Car) =	25,550 days						

Note: Cells in this table were intentionally left blank due to a lack of toxicity data.

N/A= Information not available.

**APPENDIX E TABLE 9B
 CALCULATION OF INTAKE AND RISK FROM THE INTAKE OF GROUNDWATER
 REASONABLE MAXIMUM EXPOSURE (RME) - SEAD-71 (FENCED AREA EXCLUDED)
 SEAD-59 AND SEAD-71 PHASE II RI
 Seneca Army Depot Activity**

Equation for Intake (mg/kg-day) = $\frac{EPC \times IR \times EF \times ED}{BW \times AT}$	Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose
Variables (Assumptions for Each Receptor are Listed at the Bottom): EPC = Exposure Point Concentration in Groundwater, mg/L IR = Ingestion Rate EF = Exposure Frequency	Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor
ED=Exposure Duration BW=Bodyweight AT=Averaging Time	

Analyte	Oral RfD (mg/kg-day)	Carc. Slope Oral (mg/kg-day) ⁻¹	EPC Groundwater (mg/liter)	Industrial Worker			Construction Worker			Adolescent Trespasser					
				Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk	Intake (mg/kg-day)		Hazard Quotient	Cancer Risk
				(Nc)	(Car)			(Nc)	(Car)			(Nc)	(Car)		
4-Nitroaniline	3.E-03	2.0E-02	0.0087	8.51E-05	3.04E-05	3E-02	6E-07	8.51E-05	1.22E-06	3E-02	2E-08	1.33E-05	9.53E-07	4.45E-03	1.91E-08
Aluminum	1.E+00	N/A	19.7	1.93E-01	6.88E-02	2E-01		1.93E-01	2.75E-03	2E-01		3.02E-02	2.16E-03	3.02E-02	
Antimony	4.E-04	N/A	0.00652	6.38E-05	2.28E-05	2E-01		6.38E-05	9.11E-07	2E-01		1.00E-05	7.15E-07	2.50E-02	
Arsenic	3.E-04	1.5E+00	0.0027	2.64E-05	9.44E-06	9E-02	1E-05	2.64E-05	3.77E-07	9E-02	6E-07	4.14E-06	2.96E-07	1.38E-02	4.44E-07
Chromium	3.E-03	N/A	0.0331	3.24E-04	1.16E-04	1E-01		3.24E-04	4.63E-06	1E-01		5.08E-05	3.63E-06	1.69E-02	
Iron	3.E-01	N/A	35.1	3.43E-01	1.23E-01	1E+00		3.43E-01	4.91E-03	1E+00		5.39E-02	3.85E-03	1.80E-01	
Manganese	2.E-02	N/A	2.68	2.62E-02	9.37E-03	1E+00		2.62E-02	3.75E-04	1E+00		4.11E-03	2.94E-04	1.76E-01	
Thallium	6.E-04	N/A	0.0025	2.45E-05	8.74E-06	4E-02		2.45E-05	3.49E-07	4E-02		3.84E-06	2.74E-07	5.93E-03	
Vanadium	1.E-03	N/A	0.0257	2.51E-04	8.98E-05	3E-01		2.51E-04	3.59E-06	3E-01		3.94E-05	2.82E-06	3.94E-02	
Total Hazard Quotient and Cancer Risk:						3E+00	1E-05			3E+00	6E-07			5E-01	5E-07
				Assumptions for Industrial Worker			Assumptions for Construction Worker			Assumptions for Adolescent Trespasser					
				BW =	70 kg	BW =	70 kg	BW =	50 kg						
				IR =	1 liters/day	IR =	1 liters/day	IR =	2 liters/day						
				EF =	250 days/year	EF =	250 days/year	EF =	14 days/year						
				ED =	25 years	ED =	1 years	ED =	5 years						
				AT (Nc) =	9,125 days	AT (Nc) =	365 days	AT (Nc) =	1,825 days						
				AT (Car) =	25,550 days	AT (Car) =	25,550 days	AT (Car) =	25,550 days						

Note: Cells in this table were intentionally left blank due to a lack of toxicity data.
 NA= Information not available.

APPENDIX E Table 10
Calculation of Blood Lead Concentration - Industrial Worker Exposed to SEAD-59 Stockpile Soil
SEAD-59 AND SEAD-71 PHASE II RI
Seneca Army Depot Activity

Calculations of Blood Lead Concentrations (PbBs)
 U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03

Exposure Variable	PbB Equation		Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario			
	Eq. 1	Eq. 2			Using Equation 1		Using Equation 2	
					GSD _i = Hom	GSD _i = Het	GSD _i = Hom	GSD _i = Het
PbS	X	X	Soil lead concentration	ug/g or ppm	79	79	79	79
R _{fetal-maternal}	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4	0.4	0.4
GSD _i	X	X	Geometric standard deviation PbB	--	1.9	2.1	1.9	2.1
PbB ₀	X	X	Baseline PbB	ug/dL	1.7	2.2	1.7	2.2
IR _S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
IR _{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W _S		X	Weighting factor, fraction of IR _{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K _{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
AF _{S,D}	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
EF _{S,D}	X	X	Exposure frequency (same for soil and dust)	days/yr	219	219	219	219
AT _{S,D}	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	PbB of adult worker, geometric mean			ug/dL	1.8	2.3	1.8	2.3
PbB_{fetal, 0.95}	95th percentile PbB among fetuses of adult workers			ug/dL	4.7	7.1	4.7	7.1
PbB_t	Target PbB level of concern (e.g., 10 ug/dL)			ug/dL	10.0	10.0	10.0	10.0
P(PbB_{fetal} > PbB_t)	Probability that fetal PbB > PbB_t, assuming lognormal distribution			%	0.2%	1.7%	0.2%	1.7%

Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
 When IR_S = IR_{S+D} and W_S = 1.0, the equations yield the same PbB_{fetal, 0.95}.

*Equation 1, based on Eq. 1, 2 in USEPA (1996).

PbB_{adult} =	$(PbS * BKSF * IR_{S+D} * AF_{S,D} * EF_{S,D} / AT_{S,D}) + PbB_0$
PbB_{fetal, 0.95} =	$PbB_{adult} * (GSD_i^{1.645} * R)$

**Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).

PbB_{adult} =	$PbS * BKSF * ((IR_{S+D} * AF_S * EF_S * W_S) + [K_{SD} * (IR_{S,D}) * (1 - W_S) * AF_D * EF_D]) / 365 + PbB_0$
PbB_{fetal, 0.95} =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

APPENDIX E Table 11
Calculation of Blood Lead Concentration - Construction Worker Exposed to SEAD-59 Stockpile Soil
SEAD-59 AND SEAD-71 PHASE II RI
Seneca Army Depot Activity

Calculations of Blood Lead Concentrations (PbBs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03

Parameter Variable	Equation		Description of Parameter	Units	Values for Non-Residential Exposure Scenario			
	Eq. 1	Eq. 2			Dust Ingestion	Soil Ingestion	Dust Ingestion	Soil Ingestion
PbS	X	X	Soil lead concentration	ug/g or ppm	79	79	79	79
R _{fetal/maternal}	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4	0.4	0.4
GSD _i	X	X	Geometric standard deviation PbB	--	1.9	2.1	1.9	2.1
PbB ₀	X	X	Baseline PbB	ug/dL	1.7	2.2	1.7	2.2
IR _s	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.100	0.100	--	--
IR _{s(i)}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.100	0.100
W _s		X	Weighting factor, fraction of IR _{s(i)} ingested as outdoor soil	--	--	--	1.0	1.0
K _{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
AF _{s, iD}	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
EF _{s, iD}	X	X	Exposure frequency (same for soil and dust)	days/yr	219	219	219	219
AT _{s, iD}	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB _{adult}	PbB of adult worker, geometric mean			ug/dL	1.9	2.4	1.9	2.4
PbB _{fetal, 0.95}	95th percentile PbB among fetuses of adult workers			ug/dL	5.0	7.4	5.0	7.4
PbB _t	Target PbB level of concern (e.g., 10 ug/dL)			ug/dL	10.0	10.0	10.0	10.0
P(PbB _{fetal} > PbB _t)	Probability that fetal PbB > PbB _t , assuming lognormal distribution			%	0.3%	2.0%	0.3%	2.0%

Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_s, K_{SD}).
 When IR_s = IR_{s(i)} and W_s = 1.0, the equations yield the same PbB_{fetal, 0.95}.

*Equation 1, based on Eq. 1, 2 in USEPA (1996).

$PbB_{adult} =$	$(PbS * BKSF * IR_{s(i)} * AF_{s, iD} * EF_{s, iD} / AT_{s, iD}) + PbB_0$
$PbB_{fetal, 0.95} =$	$PbB_{adult} * (GSD_i^{1.645} * R)$

**Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).

$PbB_{adult} =$	$PbS * BKSF * ((IR_{s(i)} * AF_{s, iD} * EF_{s, iD} * W_s) + (K_{SD} * (IR_{s(i)} * (1 - W_s) * AF_{s, iD} * EF_{s, iD}))) / 365 + PbB_0$
$PbB_{fetal, 0.95} =$	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Appendix E Table 12

Calculation of Blood Lead Concentration - Child Exposed to

SEAD-59 Stockpile Soil
 SEAD-59 and SEAD-71 Phase II RI
 Seneca Army Depot Activity

LEAD MODEL FOR WINDOWS Version 1.0

```
=====
Model Version: 1.0 Build 261
User Name:
Date:
Site Name:
Operable Unit:
Run Mode: Research
=====
```

The time step used in this model run: 1 - Every 4 Hours (6 times a day).

***** Air *****

Indoor Air Pb Concentration: 30.000 percent of outdoor.
 Other Air Parameters:

Age	Time Outdoors (hours)	Ventilation Rate (m ³ /day)	Lung Absorption (%)	Outdoor Air Pb Conc (ug Pb/m ³)
.5-1	1.000	2.000	32.000	0.100
1-2	2.000	3.000	32.000	0.100
2-3	3.000	5.000	32.000	0.100
3-4	4.000	5.000	32.000	0.100
4-5	4.000	5.000	32.000	0.100
5-6	4.000	7.000	32.000	0.100
6-7	4.000	7.000	32.000	0.100

***** Diet *****

Age	Diet Intake(ug/day)
.5-1	5.530
1-2	5.780
2-3	6.490
3-4	6.240
4-5	6.010
5-6	6.340
6-7	7.000

***** Drinking Water *****

Water Consumption:

Age	water (L/day)
.5-1	0.200
1-2	0.500
2-3	0.520
3-4	0.530
4-5	0.550
5-6	0.580
6-7	0.590

Appendix E Table 12

Drinking Water Concentration: 0.000 ug Pb/L

***** Soil & Dust *****

Multiple Source Analysis Used

Average multiple source concentration: 65.300 ug/g

Mass fraction of outdoor soil to indoor dust conversion factor: 0.700

Outdoor airborne lead to indoor household dust lead concentration: 100.000

Use alternate indoor dust Pb sources? No

Age	Soil (ug Pb/g)	House Dust (ug Pb/g)
.5-1	79.000	65.300
1-2	79.000	65.300
2-3	79.000	65.300
3-4	79.000	65.300
4-5	79.000	65.300
5-6	79.000	65.300
6-7	79.000	65.300

***** Alternate Intake *****

Age	Alternate (ug Pb/day)
.5-1	0.000
1-2	0.000
2-3	0.000
3-4	0.000
4-5	0.000
5-6	0.000
6-7	0.000

***** Maternal Contribution: Infant Model *****

Maternal Blood Concentration: 2.500 ug Pb/dL

 CALCULATED BLOOD LEAD AND LEAD UPTAKES:

Year	Air (ug/day)	Diet (ug/day)	Alternate (ug/day)	Water (ug/day)
.5-1	0.021	2.631	0.000	0.000
1-2	0.034	2.754	0.000	0.000
2-3	0.062	3.107	0.000	0.000
3-4	0.067	3.008	0.000	0.000
4-5	0.067	2.924	0.000	0.000
5-6	0.093	3.095	0.000	0.000
6-7	0.093	3.420	0.000	0.000

Year	Soil+Dust (ug/day)	Total (ug/day)	Blood (ug/dL)
.5-1	1.734	4.386	2.4
1-2	2.758	5.547	2.4
2-3	2.771	5.939	2.2
3-4	2.790	5.864	2.1
4-5	2.086	5.077	1.8
5-6	1.884	5.072	1.6
6-7	1.781	5.294	1.5

APPENDIX E Table 13
Calculations of Blood Lead Concentration - Industrial Worker Exposed to SEAD-71 Surface Soil
SEAD-59 and SEAD-71 Phase II R1
Seneca Army Depot Activity

Calculations of Blood Lead Concentrations (PbBs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03



Exposure Variable	PbB Equation		Description of Exposure Variable	Unit	Values for Non-Residential Exposure Scenario			
	1	2*			Using Equation 1	GSD1 = Hom	GSD1 = Het	Using Equation 2
PbS	X	X	Soil lead concentration	ug/g or ppm	166.3	166.3	166.3	166.3
R _{fetal/maternal}	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4	0.4	0.4
GSD ₁	X	X	Geometric standard deviation PbB	--	1.9	2.1	1.9	2.1
PbB ₀	X	X	Baseline PbB	ug/dL	1.7	2.2	1.7	2.2
IR _{S,D}	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
IR _{S,D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W _S		X	Weighting factor, fraction of IR _{S,D} ingested as outdoor soil	--	--	--	1.0	1.0
K _{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
AF _{S,D}	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
EF _{S,D}	X	X	Exposure frequency (same for soil and dust)	days/yr	219	219	219	219
AT _{S,D}	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	PbB of adult worker, geometric mean			ug/dL	1.9	2.4	1.9	2.4
PbB_{fetal, 0.95}	95th percentile PbB among fetuses of adult workers			ug/dL	5.0	7.4	5.0	7.4
PbB_t	Target PbB level of concern (e.g., 10 ug/dL)			ug/dL	10.0	10.0	10.0	10.0
P(PbB_{fetal} > PbB_t)	Probability that fetal PbB > PbB_t, assuming lognormal distribution			%	0.3%	2.1%	0.3%	2.1%

*Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
 When IR_S = IR_{S,D} and W_S = 1.0, the equations yield the same PbB_{fetal, 0.95}.

*Equation 1, based on Eq. 1.2 in USEPA (1996).

PbB_{adult}	=	(PbS * BKSF * IR _{S,D} * AF _{S,D} * EF _{S,D} / AT _{S,D}) + PbB ₀
PbB_{fetal, 0.95}	=	PbB _{adult} * (GSD ₁ ^{1.645} * R)

**Equation 2, alternate approach based on Eq. 1.2, and A-19 in USEPA (1996).

PbB_{adult}	=	PbS * BKSF * ((IR _{S,D}) * AF _{S,D} * EF _{S,D} * W _S) + (K _{SD} * (IR _{S,D}) * (1 - W _S) * AF _D * EF _D) / 365 + PbB ₀
PbB_{fetal, 0.95}	=	PbB _{adult} * (GSD ₁ ^{1.645} * R)

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

APPENDIX E Table 14
Calculations of Blood Lead Concentration - Construction Worker Exposed to SEAD-71 Surface and Subsurface Soil
SEAD-59 and SEAD-71 Phase II RI
Seneca Army Depot Activity

Calculations of Blood Lead Concentrations (PbBs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03



Exposure Variable	PbB Equation		Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario			
	Eq. 1	Eq. 2			Using Equation 1		Using Equation 2	
					GSD ₁ = Hom	GSD ₁ = Het.	GSD ₁ = Hom	GSD ₁ = Het.
PbS	X	X	Soil lead concentration	ug/g or ppm	152.4	152.4	152.4	152.4
R _{fetal/maternal}	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4	0.4	0.4
GSD ₁	X	X	Geometric standard deviation PbB	--	1.9	2.1	1.9	2.1
PbB ₀	X	X	Baseline PbB	ug/dL	1.7	2.2	1.7	2.2
IR _S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.100	0.100	--	--
IR _{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.100	0.100
W _S		X	Weighting factor, fraction of IR _{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K _{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
AF _{S,D}	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
EF _{S,D}	X	X	Exposure frequency (same for soil and dust)	days/yr	219	219	219	219
AT _{S,D}	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	PbB of adult worker, geometric mean			ug/dL	2.1	2.6	2.1	2.6
PbB_{fetal, 0.95}	95th percentile PbB among fetuses of adult workers			ug/dL	5.5	8.0	5.5	8.0
PbB_t	Target PbB level of concern (e.g., 10 ug/dL)			ug/dL	10.0	10.0	10.0	10.0
P(PbB_{fetal} > PbB_t)	Probability that fetal PbB > PbB_t, assuming lognormal distribution			%	0.5%	2.6%	0.5%	2.6%

¹ Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
 When IR_S = IR_{S+D} and W_S = 1.0, the equations yield the same PbB_{adult, 0.95}.

*Equation 1, based on Eq. 1, 2 in USEPA (1996).

$PbB_{adult} = (PbS * BKSF * IR_{S+D} * AF_{S,D} * EF_S / AT_{S,D}) + PbB_0$
$PbB_{fetal, 0.95} = PbB_{adult} * (GSD_1^{1.94} * R)$

**Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).

$PbB_{adult} = PbS * BKSF * [(IR_{S+D}) * AF_S * EF_S * W_S] + [K_{SD} * (IR_{S+D}) * (1 - W_S) * AF_D * EF_D] / 365 + PbB_0$
$PbB_{fetal, 0.95} = PbB_{adult} * (GSD_1^{1.94} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Appendix E Table 15

Calculation of Blood Lead Concentration - Child Exposed to
 SEAD-71 Surface Soil and Groundwater
 SEAD-59 and SEAD-71 Phase II RI
 Seneca Army Depot Activity
 LEAD MODEL FOR WINDOWS Version 1.0

```
=====
Model Version: 1.0 Build 261
User Name:
Date:
Site Name:
Operable Unit:
Run Mode: Research
=====
```

The time step used in this model run: 1 - Every 4 Hours (6 times a day).

***** Air *****

Indoor Air Pb Concentration: 30.000 percent of outdoor.
 Other Air Parameters:

Age	Time Outdoors (hours)	Ventilation Rate (m ³ /day)	Lung Absorption (%)	Outdoor Air Pb Conc (ug Pb/m ³)
.5-1	1.000	2.000	32.000	0.100
1-2	2.000	3.000	32.000	0.100
2-3	3.000	5.000	32.000	0.100
3-4	4.000	5.000	32.000	0.100
4-5	4.000	5.000	32.000	0.100
5-6	4.000	7.000	32.000	0.100
6-7	4.000	7.000	32.000	0.100

***** Diet *****

Age	Diet Intake(ug/day)
.5-1	5.530
1-2	5.780
2-3	6.490
3-4	6.240
4-5	6.010
5-6	6.340
6-7	7.000

***** Drinking Water *****

Age	Water Consumption: Water (L/day)
.5-1	0.200
1-2	0.500
2-3	0.520
3-4	0.530
4-5	0.550
5-6	0.580
6-7	0.590

Drinking Water Concentration: 17.200 ug Pb/L

Appendix E Table 15

***** Soil & Dust *****

Multiple Source Analysis Used

Average multiple source concentration: 126.410 ug/g

Mass fraction of outdoor soil to indoor dust conversion factor: 0.700

Outdoor airborne lead to indoor household dust lead concentration: 100.000

Use alternate indoor dust Pb sources? No

Age	Soil (ug Pb/g)	House Dust (ug Pb/g)
.5-1	166.300	126.410
1-2	166.300	126.410
2-3	166.300	126.410
3-4	166.300	126.410
4-5	166.300	126.410
5-6	166.300	126.410
6-7	166.300	126.410

***** Alternate Intake *****

Age	Alternate (ug Pb/day)
.5-1	0.000
1-2	0.000
2-3	0.000
3-4	0.000
4-5	0.000
5-6	0.000
6-7	0.000

***** Maternal Contribution: Infant Model *****

Maternal Blood Concentration: 2.500 ug Pb/dL

 CALCULATED BLOOD LEAD AND LEAD UPTAKES:

Year	Air (ug/day)	Diet (ug/day)	Alternate (ug/day)	Water (ug/day)
.5-1	0.021	2.538	0.000	1.579
1-2	0.034	2.605	0.000	3.876
2-3	0.062	2.958	0.000	4.076
3-4	0.067	2.881	0.000	4.208
4-5	0.067	2.823	0.000	4.444
5-6	0.093	2.999	0.000	4.718
6-7	0.093	3.323	0.000	4.817

Year	Soil+Dust (ug/day)	Total (ug/day)	Blood (ug/dL)
.5-1	3.379	7.516	4.1
1-2	5.270	11.785	4.8
2-3	5.329	12.425	4.6
3-4	5.398	12.554	4.4
4-5	4.069	11.403	3.9
5-6	3.687	11.497	3.6
6-7	3.495	11.728	3.3

APPENDIX F

LIST OF POTENTIAL ARARs

APPENDIX F LIST OF POTENTIAL ARARS

Potential Chemical-Specific ARARs and TBCs

Cleanup levels for chemical hazardous constituents in soil have been developed by the State of New York and have been published under Title 6 New York Code of Rules and Regulations SubPart 375-6. These cleanup levels have been promulgated by the State of New York and are ARARs that have been considered during the development of the proposed remedies presented in this Record of Decision.

Groundwater at the SEDA in general, and at the AOCs in specific is classified by NYSDEC as Class GA. As a result, the groundwater quality standards for a Class GA groundwater are ARARs for the AOCs. Exceedances of the GA standards for some metals were observed in groundwater samples collected from SEAD-121C; groundwater was not encountered at SEAD-121I in the overburden above the competent bedrock. The noted groundwater exceedances found at SEAD-121C are not associated with the historic activities conducted at the AOC. The observed contaminants are associated with the native soils of the depot, and the poor regional groundwater quality that exists throughout SEDA. The overburden is comprised principally of a clay-silt mixture that results in a very low yielding groundwater flow system. The groundwater is susceptible to entrainment of soil fines and particles.

Surface water at SEAD-121C is found occasionally in man-made drainage ditches that abut the AOC along two sides, and in localized puddles that evaporate into the air or infiltrate into the soil. Surface water at SEAD-121I exists either as puddles or as ephemeral run off streams that flow to an underground, storm water collection system that subsequently discharges to a man-made drainage ditch roughly 1000 feet west of the AOC. Storm-event water falls on both of the AOCs and then runs off towards the abutting drainage ditches. The surface water captured in the drainage ditches has not been classified by NYSDEC since these ditches are not recognized as an established stream or creek. However, because the drainage ditches form the headwaters for Kendaia Creek, the lower portion of which is designated as Class C surface water by NYSDEC, the Class C surface water ambient water quality criteria were used to provide a basis of comparison for the on-site chemical data. The Class C standards are not strictly applicable to the surface water in the drainage ditches found on the sites and thus are treated as TBCs.

The sediment found in the drainage ditches at SEDA results from overland flow and the erosion and subsequent accumulation native soil, debris and dead vegetation. The man-made drainage ditches located throughout the Depot were subject to a periodic inspection and maintenance (i.e., dredging) program during the active days of the military operation. Drainage ditches found around both of these AOCs are generally void of fish and aquatic animal life. As such, sediment at both of these AOCs has been evaluated as "ditch soil" and compared to the New York State soil cleanup objectives presented in Title 6 NYCRR Subpart 375-6

Potential Federal Location-Specific ARARs

- Executive Orders 11593, Floodplain Management (May 24, 1977), and 11990, Protection of Wetlands (May 24, 1977).
- National Historic Preservation Act (16 USC 470) Section 106 and 110(f), and the associated regulations (*i.e.*, 36 CFR part 800) (requires Federal agencies to identify all affected properties on or eligible for the National Register of Historic Places and consult with the State Historic Preservation Office and Advisory Council on Historic Presentation).
- RCRA Location and 100-year Floodplains Requirements (40 CFR 264.18(b)).
- Clean Water Act, section 404, and Rivers and Harbor Act, section 10 (requirements for dredge and fill activities) and the associated regulations (*i.e.*, 40 CFR part 230).
- Wetlands Construction and Management Procedures (40 CFR part 6, Appendix A).
- Endangered Species Act of 1973 (16 USC 1531 - 1544).
- Fish and Wildlife Coordination Act of 1934 (16 USC 661).
- Wilderness Act of 1964 (16 USC 1131 - 1136).

Potential New York Location-Specific ARARs

- New York State Freshwater Wetlands Law (New York Environmental Conservation Law (ECL) articles 24 and 71).
- New York State Freshwater Wetlands Permit and Classification Requirements (6 NYCRR 663 and 664).
- New York State Floodplain Management Act, ECL, article 36, and Floodplain Management regulations (6 NYCRR Part 500).
- Endangered and Threatened Species of Fish and Wildlife, Species of Special Concern Requirements (6 NYCRR part 182).
- New York State Inactive Hazardous Waste Disposal Sites—Remedy Selection (6 NYCRR 375.10(b)) (“goal of the program for a specific site is to restore that site to pre-disposal conditions, to the extent feasible and authorized by law.”).
- New York State Flood Hazard Area Construction Standards.

Potential Federal Action-Specific ARARs

- RCRA subtitle C, Hazardous Waste Treatment Facility Design and Operating Standards for Treatment and Disposal systems, (*i.e.*, landfill, incinerators, tanks, containers, etc.) (*i.e.*, 40 CFR part 264); RCRA section 3004(o), 42 USC 6924(o) (RCRA statutory minimum technology requirements.)
- RCRA, Closure and Post-Closure Standards (40 CFR 264, subpart G).
- RCRA Groundwater Monitoring and Protection Standards (40 CFR 264.92 and 264.97 – 264.99).
- RCRA Generator Requirements for Manifesting Waste for Off-site Disposal (40 CFR part 262, subpart B).

- RCRA Transporter Requirements for Off-Site Disposal (40 CFR part 263).
- RCRA, Subtitle D, Non-Hazardous Waste Management Standards (40 CFR part 257).
- RCRA Land Disposal Restrictions (40 CFR part 268) (on and off-site disposal of excavated soil).
- CWA--NPDES Permitting Requirements for Discharge of Treatment System Effluent (40 CFR parts 122-125).
- CWA--Effluent Guidelines for Organic Chemicals, Plastics and Synthetic Fibers (discharge limits) (40 CFR part 414).
- CWA--Discharge to POTW—general Pretreatment regulations (40 CFR part 403).
- DOT Rules for Hazardous Materials Transport (49 CFR part 107, and 171.1-171.500).
- OSHA Standards for Hazardous Waste Operations and Emergency Response, 29 CFR 1910.120, and procedures for General Construction Activities (29 CFR parts 1910 and 1926).
- RCRA Air Emission Standards for Process Vents, Equipment Leaks, and Tanks, Surface Impoundments, and Containers (40 CFR part 264, subparts AA, BB, and CC).

Potential New York Action-Specific ARARs

- New York State Pollution Discharge Elimination System (SPDES) Permit Requirements (Standards for Stormwater Runoff, Surface Water, and Groundwater Discharges (6 NYCRR 750-757)).
- New York State Hazardous Waste Regulations—identification, generators, transportation, treatment/storage/disposal, land disposal restrictions, and minimum technology requirements (6 NYCRR 370-376)
- New York State Solid Waste Management and Siting Restrictions (6 NYCRR 360-361).
- New York State Hazardous Waste Generator and Transporter Requirements for Manifesting Waste for Off-Site Disposal (6 NYCRR 364 and 372).
- New York State Inactive Hazardous Waste Disposal Sites—Remedy Selection (6 NYCRR 375.10(b)(“At a minimum, the remedy selected shall eliminate or mitigate all significant threats to the public health and to the environment presented by hazardous waste disposed at the site through the proper application of scientific and engineering principles.”).
- New York State Inactive Hazardous Waste Disposal Sites--Interim Remedial Measures (IRMs) (6 NYCRR 375-1.3(n) and 375.1.11)

