

FINAL PROJECT REPORT
Former Schenectady Army Depot
Voorheesville Area
Former Bivouac Area/Commander's Landfill
Area of Concern #2

Contract No. DACA45-98-D-0003
Task Order No. 105
and
Contract No. DACA45-03-D-0022
Task Order No. 0045

Prepared for:



U.S. Army Corps of Engineers
Omaha District Rapid Response
Building 525 Castle Hall
Offutt AFB, NE 68113



Prepared by:

Shaw Environmental, Inc.
2790 Mossie Blvd
Monroeville, Pennsylvania 15146

January 2007

Table of Contents

- Executive Summary 1**
- 1.0 Introduction 3**
 - 1.1 Site Description and Background 3
 - 1.2 Site Location 3
 - 1.3 Preliminary Activities..... 4
 - 1.3.1 Engineering Evaluation/Cost Analysis 4
 - 1.4 Project Organization 4
- 2.0 Project Activities 5**
 - 2.1 Mobilization and Set-up 5
 - 2.2 Erosion Control and Storm Water Management..... 5
 - 2.3 Access Road Construction 5
 - 2.4 Excavation and Staging of Wastes..... 6
 - 2.4.1 Area F 6
 - 2.4.2 Area C 8
 - 2.4.3 Area B 9
 - 2.4.4 Area D 9
 - 2.5 Confirmation Sampling and Analysis 10
 - 2.6 Disposal Sampling and Analysis 11
 - 2.7 Storm Water Collection and Disposal..... 11
 - 2.8 Radiological Screening Surveying..... 12
 - 2.9 Backfill of Excavated Areas 12
 - 2.10 Transportation and Disposal..... 13
 - 2.11 Geophysical Survey/AOI Investigation 13
 - 2.12 Surface and Groundwater Monitoring..... 15
 - 2.13 Site Restoration: 15
 - 2.14 2006 Activities..... 15
 - 2.14.1 Area F Excavation..... 15
 - 2.14.2 AOI Investigation and Excavation 16
 - 2.14.3 Confirmation Sampling and Analysis 17
 - 2.14.4 Disposal Sampling and Analysis 18
 - 2.14.5 Backfill of Excavated Areas 18
 - 2.14.6 IDW wastes from AOC 1 and AOC 2 19
 - 2.14.7 Transportation and Disposal..... 19
 - 2.14.8 Site Restoration..... 20
 - 2.15 Future Surface and Groundwater Monitoring 20
- 3.0 Health and Safety 21**
 - 3.1 Air Monitoring..... 21
 - 3.2 Project Health and Safety 21
- 4.0 Problems Encountered and Lessons Learned. 23**
- 5.0 Conclusions and Recommendations 24**

List of Figures

Figure 1-1	Site Vicinity map
Figure 1-2	Former SADVA Site Plan
Figure 2-1	Site Plan
Figure 2-2	Area F Excavation and Confirmation Sample Locations (2005)
Figure 2-3	Area B & C Excavation and confirmation Sample Locations
Figure 2-4	Area D Excavation and confirmation Sample Locations
Figure 2-5	Area F Excavation and Confirmation Sample Locations (2006)
Figure 2-6	AOI 5 Excavation and Confirmation Sample Locations

List of Tables

Table 1	Key Contact Information
Table 2	Area F –Confirmation Sample Metals Results
Table 3	Area F –Confirmation Sample SVOC Results
Table 4	Area F –Confirmation Sample VOC Results
Table 5	Area F –Confirmation Sample Pesticide/PCB/Herbicide Results
Table 6	Area C–Confirmation Sample Metals Results
Table 7	Area C –Confirmation Sample SVOC Results
Table 8	Area C –Confirmation Sample VOC Results
Table 9	Area C –Confirmation Sample Pesticide/PCB/Herbicide Results
Table 10	Area B–Confirmation Sample Metals Results
Table 11	Area B –Confirmation Sample SVOC Results
Table 12	Area B –Confirmation Sample VOC Results
Table 13	Area B –Confirmation Sample Pesticide/PCB/Herbicide Results
Table 14	Area D–Confirmation Sample Metals Results
Table 15	Area D –Confirmation Sample SVOC Results
Table 16	Area D –Confirmation Sample VOC Results
Table 17	Area D –Confirmation Sample Pesticide/PCB/Herbicide Results
Table 18	Area F Disposal Sample Analytical Results
Table 19	Area B Disposal Sample Analytical Results
Table 20	Area C Disposal Sample Analytical Results
Table 21	Area D Disposal Sample Analytical Results
Table 22	Storm Water Sample Analytical Results
Table 23	Area F –Confirmation Sample Metals Results (2006)
Table 24	Area F –Confirmation Sample VOC Results (2006)
Table 25	AOI 5 –Confirmation Sample Metals Results
Table 26	AOI 5 –Confirmation Sample SVOC Results
Table 27	AOI 5 –Confirmation Sample VOC Results
Table 28	AOI 5 –Confirmation Sample Pesticide/PCB/Herbicide Results
Table 29	Area F Disposal Sample Analytical Results (2006)
Table 30	AOI 5 Disposal Sample Analytical Results (2006)

List of Appendices

Appendix A	Analytical Summary Memos
Appendix B	Nickel Statistical Background Memo
Appendix C	Sample Logs, Chain of Custody and Laboratory Data Packages (2005)
Appendix D	Radiological Survey Report
Appendix E	Carver NYSDOT Certificate of Approval
Appendix F	Waste Profiles and Manifest (2005)
Appendix G	Geophysical Survey Memo
Appendix H	Sample Logs, Chain of Custody and Laboratory Data Packages (2006)
Appendix I	Waste Profiles and Manifest (2006)
Appendix J	Photographs

List of Acronyms

AEL	Adirondack Environmental Laboratories
AOC	area of concern
AOI	areas of interest
CIH	Certified Industrial Hygienist
EDI	Environmental Dimensions, Inc.
EE/CA	Engineering Evaluation/Cost Analysis
EPS	Environmental Products & Services of Vermont
GPL	GPL Laboratories, LLP
IDW	Investigative derived wastes
NELAP	National Environmental Laboratory Accreditation Program
NYSDEC	New York State Department of Environmental Conservation
OVA	Organic Vapor Analyzer
PCB	Polychlorinated Biphenols
POTW	publicly owned treatment works
PPE	Personal Protective Equipment
RCRA	Resource Conservation Recovery Act
ROB	run of bank
RSCO	Recommended Soil Clean-up Objectives
SADVA	Schenectady Army Depot – Voorheesville Area
Shaw	Shaw Environmental, Inc.
SSHP	Site-Specific Health and Safety Plan
SSO	Site Safety Officer
SVOC	Semivolatile Organic Compound
TAGM	Technical Assistance Guidance Memorandum
USACE	U.S. Army Corp of Engineers
VOC	Volatile Organic Compound

References

Parsons. "Engineering Evaluation/Cost Analysis - Former Bivuoac Area/Post Commander's Landfill (Area of Concern #2), Former Schenectady Army Depot – Voorheesville Area, Former Used Defense Site, Guilderland, New York." 290 Elwood Davis Road, Suie 312, Liverpool, New York 13008. May 2005

Shaw Environmental, Inc. "Work Plan – Former Schenectady Army Depot – Voorheesville Area, Former Bivuoac Area/Post Commander's Landfill (Area of Concern, #2)." 2790 Mossie Boulevard, Monroeville, Pennsylvania 15146. August 2005