

## TABLE OF CONTENTS

<b>1.0</b>	<b>Introduction .....</b>	<b>1-1</b>
	<b>1.1 TCRA Site .....</b>	<b>1-1</b>
	<b>1.2 Sampling Overview .....</b>	<b>1-1</b>
<b>2.0</b>	<b>Background Sampling .....</b>	<b>2-1</b>
<b>3.0</b>	<b>First Detonation at Camp Grant .....</b>	<b>3-1</b>
	<b>3.1 Detonation Site .....</b>	<b>3-1</b>
	<b>3.2 Sampling .....</b>	<b>3-1</b>
	<b>3.3 Laboratory Analysis of the Samples .....</b>	<b>3-1</b>
<b>4.0</b>	<b>Post TCRA Activities .....</b>	<b>4-1</b>
	<b>4.1 Demolition Site .....</b>	<b>4-1</b>
	<b>4.2 Sampling .....</b>	<b>4-1</b>
	<b>4.3 Laboratory Analysis .....</b>	<b>4-2</b>
<b>5.0</b>	<b>Sampling Plan .....</b>	<b>5-1</b>
	<b>5.1 Introduction .....</b>	<b>5-1</b>
	<b>5.1.1 Plan Objective .....</b>	<b>5-1</b>
	<b>5.1.2 Background .....</b>	<b>5-1</b>
	<b>5.2 Standard Sampling Procedures .....</b>	<b>5-1</b>
	<b>5.2.1 Required Sampling Equipment .....</b>	<b>5-2</b>
	<b>5.2.2 Health and Safety Precautions .....</b>	<b>5-2</b>
	<b>5.3 Field Documentation .....</b>	<b>5-3</b>
	<b>5.4 Standard Sampling Procedures .....</b>	<b>5-4</b>
	<b>5.4.1 Collection Site Preparation .....</b>	<b>5-4</b>
	<b>5.4.2 Sample Collection ....</b>	<b>5-5</b>
	<b>5.4.2.1 Sample Collection .....</b>	<b>5-5</b>
	<b>5.4.2.2 Ejecta .....</b>	<b>5-6</b>
	<b>5.4.2.3 Fallout .....</b>	<b>5-6</b>
	<b>5.4.2.4 Surface Water .....</b>	<b>5-6</b>
	<b>5.4.2.5 Soils and Explosive Residues .....</b>	<b>5-6</b>
	<b>5.5 Field QA/QC .....</b>	<b>5-6</b>
	<b>5.5.1 Trip Blanks .....</b>	<b>5-6</b>
	<b>5.5.2 Matrix Spike and Matrix Spike Duplicates .....</b>	<b>5-7</b>
	<b>5.5.3 Rinsate Samples .....</b>	<b>5-7</b>
	<b>5.5.4 Duplicate Samples ....</b>	<b>5-7</b>
	<b>5.6 Sample Labels and Chain of Custody Documentation .....</b>	<b>5-7</b>

5.6.1 Labels .....	5-7	
5.6.2 Chain of Custody Seals .....	5-7	
5.6.3 Chain of Custody (COC) Records .....	5-8	
5.7 Sample Handling and Shipment .....	5-8	
5.8 Decontamination Procedures for Sampling Equipment .....	5-8	
5.9 Sampling Area Descriptions .....	5-9	
5.10 Pre Detonation Sampling (Background Samples) .....	5-9	
5.10.1 Unaffected Background Samples .....	5-9	
5.10.2 Historical Contamination .....	5-9	
5.10.3 Surface Water, Pre Detonation .....	5-9	
5.10.4 Ground Water Historical Contamination .....	5-9	
5.11 Post Detonation Sampling .....		5-10
5.11.1 Ejecta .....	5-10	
5.11.2 Crater Debris .....	5-10	
5.11.3 Fallout Collection .....	5-10	
5.11.4 Surface Water .....	5-10	
5.12 Contaminated Soils Near UXO Washout .....	5-10	
5.13 UXO and Munitions Debris .....	5-10	
5.14 Air Sampling .....	5-10	
5.15 Follow-up Sampling .....	5-10	

## LIST OF FIGURES

Figure 2.1	Soil and Water Sample Collection Locations at Camp Grant For Background, First Detonation and Post TCRA .....	2-2
Figure 2.2	Demolition Bunker in the Quarry Used for UXO Disposal .....	2-3
Figure 2.3	View Looking West .....	2-3
Figure 3.1	Stokes Mortar Prior to Demolition in the Bunker .....	3-3
Figure 3.2	Photo Showing Movement of Sandbags Covering Opening to the Demolition Pit Resulting From the 1/2 Pound Initiator Charge ..	3-3
Figure 3.3	Stokes Mortar as Uncovered (a) and Removed to the Top of the Bunker (b)	3-4
Figure 4.1	Disposal Area Looking South-West .....	4-3
Figure 4.2	Disposal Area Looking North-East .....	4-3

## LIST OF TABLES

Table 2.1	Semivolatile Concentration for Camp Grant .....	2-4
Table 2.2	Nitroaromatics and Nitramines for Camp Grant .....	2-6
Table 2.3	Metals Concentrations at Camp Grant .....	2-7
Table C.1	Target Analytes for Open Detonation Sites .....	C-2

## APPENDICES

Appendix A	Equipment and Supplies .....	A-1
Appendix B	Chain of Custody and Log .....	B-1
Appendix C	Sampling / Analysis .....	C-1
Appendix D	Baseline Laboratory Report For Camp Claiborne .....	D-1
Appendix E	First Detonation Laboratory Report for Camp Claiborne .....	E-1
Appendix F	Post Disposal Laboratory Report for Camp Claiborne .....	F-1
Appendix G	Uncited References .....	G-1