TABLE OF CONTENTS

1.0 PURPOSE AND NEED FOR AGENCY ACTION 1-1

2.0 BACKGROUND 2-1

3.0 PROPOSED ACTION AND ALTERNATIVES 3-1

3.1 PROPOSED ACTION 3-1

3.2 ALTERNATIVES TO THE PROPOSED ACTION 3-4

3.2.1 No-Action Alternative 3-4
3.2.2 Use of Pits 19 and 20 and Construction of New Haul Roads to Supply Fill Material for the 100-F and 100-H Areas 3-5
3.2.3 Use of Other Existing Onsite Borrow Material Sources 3-5
3.2.4 Procurement of Offsite Materials 3-5

4.0 AFFECTED ENVIRONMENT 4-1

4.1 GENERAL HANFORD SITE ENVIRONMENT 4-1

4.2 SPECIFIC SITE ENVIRONMENT 4-2

4.2.1 100-F Area Proposed Action Location 4-2
4.2.2 100-H Area Proposed Action Location 4-3
4.2.3 100-N Area Proposed Action Location 4-3
4.2.4 Alternative Action Locations 4-3

4.3 SOCIOECONOMIC ENVIRONMENT 4-5

5.0 ENVIRONMENTAL IMPACTS 5-1

5.1 IMPACTS OF THE PROPOSED ACTION 5-1

5.1.1 Excavation of Borrow Materials 5-1
5.1.2 Air Quality 5-1
5.1.3 Water Quality 5-1
5.1.4 Land Use 5-1
5.1.5 Ecological Resources 5-2
5.1.6 Cultural Resources 5-2
5.1.7 Aesthetic and Visual Resources 5-3
5.1.8 Transportation 5-3
5.1.9 Reasonably Foreseeable Accidents Considered and the Potential Effects 5-3

5.1.10 Socioeconomic Impacts 5-3
5.1.11 Environmental Justice Impacts 5-3
5.1.12 Cumulative Impacts 5-4

5.2 IMPACTS FROM ALTERNATIVE ACTIONS 5-5

5.2.1 Impacts from the No-Action Alternative 5-5
5.2.2 Impacts from Using Pits 19 and 20 and Construction of New Haul Roads to Supply Fill Material for the 100-F and 100-H Areas 5-5
5.2.3 Impacts from the Use of Other Onsite Borrow Material Sources 5-5
5.2.4 Impacts from the Procurement of Offsite Materials 5-6

6.0 PERMITS AND REGULATORY REQUIREMENTS 6-1

7.0 CONSULTATION AND COORDINATION 7-1

8.0 REFERENCES 8-1

APPENDICES

A PROPOSED BORROW SITE LOCATIONS ..... A-i

B ECOLOGICAL AND CULTURAL RESOURCE REVIEWS FOR PROPOSED BORROW SITE LOCATIONS ..... B-i

C PUBLIC COMMENT LETTERS/DOE RESPONSES ON DRAFT DOE/EA-1454 ..... C-i

FIGURES

1-1. Hanford Site Map. 1-1
3-1. Locations of Proposed Action and Alternative Action Borrow Sites. 3-2

TABLE

2-1. Projected Borrow Needs for Remediation Projects in the 100-F, 100-H, 100-K, and 100-N Areas. 2-2

ACRONYMS AND ABBREVIATIONS

bcm	bank cubic meter
BRMaP	*Hanford Site Biological Resources Management Plan*
CERCLA	*Comprehensive Environmental Response, Compensation, and Liability Act of 1980*
DOE	U.S. Department of Energy
EA	environmental assessment
HCP EIS	*Final Hanford Comprehensive Land-Use Plan Environmental Impact Statement*
ISS	interim safe storage
NEPA	*National Environmental Policy Act of 1969*
USFWS	U.S. Fish and Wildlife Service
WAC	*Washington Administrative Code*

METRIC CONVERSION CHART

Into Metric Units			Out of Metric Units		
If You Know	*Multiply By*	*To Get*	*If You Know*	*Multiply By*	*To Get*
Length			**Length**		
inches	25.4	millimeters	millimeters	0.039	inches
inches	2.54	centimeters	centimeters	0.394	inches
feet	0.305	meters	meters	3.281	feet
yards	0.914	meters	meters	1.094	yards
miles	1.609	kilometers	kilometers	0.621	miles
Area			**Area**		
sq. inches	6.452	sq. centimeters	sq. centimeters	0.155	sq. inches
sq. feet	0.093	sq. meters	sq. meters	10.76	sq. feet
sq. yards	0.836	sq. meters	sq. meters	1.196	sq. yards
sq. miles	2.6	sq. kilometers	sq. kilometers	0.4	sq. miles
acres	0.405	hectares	hectares	2.47	acres
Mass (weight)			**Mass (weight)**		
ounces	28.35	grams	grams	0.035	ounces
pounds	0.454	kilograms	kilograms	2.205	pounds
ton	0.907	metric ton	metric ton	1.102	ton
Volume			**Volume**		
teaspoons	5	milliliters	milliliters	0.033	fluid ounces
tablespoons	15	milliliters	liters	2.1	pints
fluid ounces	30	milliliters	liters	1.057	quarts
cups	0.24	liters	liters	0.264	gallons
pints	0.47	liters	cubic meters	35.315	cubic feet
quarts	0.95	liters	cubic meters	1.308	cubic yards
gallons	3.8	liters			
cubic feet	0.028	cubic meters			
cubic yards	0.765	cubic meters			
Temperature			**Temperature**		
Fahrenheit	subtract 32, then multiply by 5/9	Celsius	Celsius	multiply by 9/5, then add 32	Fahrenheit
Radioactivity			**Radioactivity**		
picocuries	37	millibecquerel	millibecquerels	0.027	picocuries